The Appendices of Project Hagia Sophia

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The Home Page is:
http://www.noologie.de/

A printable .pdf-Version is here:
http://www.noologie.de/appendix.pdf
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And more problematic, one cannot get to the footnotes.
These are accessible only in the .htm format.

The .htm version is here:
http://www.noologie.de/appendix.htm
This contains all the www-links that can be accessed.

Wikipedia: Noology External links:
http://en.wikipedia.org/wiki/Noology
Table of Contents: Root Level (1)

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Table of Contents: Root Level (1)</td>
<td>3</td>
</tr>
<tr>
<td>The Appendices of Project Sophia</td>
<td>9</td>
</tr>
<tr>
<td>Appendix I: Definitions of words in the Morphological Sense</td>
<td>9</td>
</tr>
<tr>
<td>Appendix II: Peter Sloterdijk Special</td>
<td>21</td>
</tr>
<tr>
<td>Appendix III: The Hierarchical Structure of the Warburg Library</td>
<td>39</td>
</tr>
<tr>
<td>Appendix IV: Adolphe Quételet</td>
<td>40</td>
</tr>
<tr>
<td>Appendix V: Jared Diamond and Guns, Germs, and Steel</td>
<td>43</td>
</tr>
<tr>
<td>Appendix VI: Lev Gumilev on Empires and then Some</td>
<td>55</td>
</tr>
<tr>
<td>Appendix VII: The Meta-Morphology of Evil Empires</td>
<td>69</td>
</tr>
<tr>
<td>Appendix VIII: Wolfgang Amadeus Mozart</td>
<td>89</td>
</tr>
<tr>
<td>Appendix IX: Some Addenda to: Das Gold im Wachs</td>
<td>91</td>
</tr>
<tr>
<td>Appendix X: Technical Issues of Hypertext Data Base Design</td>
<td>94</td>
</tr>
<tr>
<td>Appendix XI: The Display Tree for an Associative Hierarchy</td>
<td>109</td>
</tr>
<tr>
<td>Appendix XII: The Dewey Decimal Classification</td>
<td>121</td>
</tr>
<tr>
<td>Appendix XIII: Some Excerpts from Design und Zeit</td>
<td>122</td>
</tr>
<tr>
<td>Appendix XIV: Notes about Eco's The Name of the Rose</td>
<td>123</td>
</tr>
<tr>
<td>Appendix XV: Where even Angels fear to tread</td>
<td>144</td>
</tr>
<tr>
<td>Appendix XVI: Just Got Lost in Translation</td>
<td>163</td>
</tr>
<tr>
<td>Appendix XVII: Philosophen im Spannungsfeld</td>
<td>163</td>
</tr>
<tr>
<td>Not An Appendix XVIII: Some Dangling Odds and Ends</td>
<td>164</td>
</tr>
<tr>
<td>The End of the End is the Beginning of another End</td>
<td>164</td>
</tr>
<tr>
<td>Appendix</td>
<td>Title</td>
</tr>
<tr>
<td>----------</td>
<td>-------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>I</td>
<td>Definitions of words in the Morphological Sense</td>
</tr>
<tr>
<td>II</td>
<td>Peter Sloterdijk and Computer Assisted Philosophy</td>
</tr>
<tr>
<td></td>
<td>Introduction</td>
</tr>
<tr>
<td></td>
<td>Peter Sloterdijk and Computer Assisted Philosophy</td>
</tr>
<tr>
<td></td>
<td>Neuronale Ästhetik</td>
</tr>
<tr>
<td></td>
<td>Noologie: A Comparison with Peter Sloterdijk's Morphology</td>
</tr>
<tr>
<td></td>
<td>Some Aspects of the Controversy around Sloterdijk's Work</td>
</tr>
<tr>
<td></td>
<td>The Shape of Things By Sam Han on the Sphäeren by Sloterdijk</td>
</tr>
<tr>
<td></td>
<td>Rezensionen peter-sloterdijk-du-musst-dein-leben-aendern-der- dreizehnkampfkreordhalter</td>
</tr>
<tr>
<td></td>
<td>Critique by Axel Honneth</td>
</tr>
<tr>
<td></td>
<td>Nietzsche, Zarathustra: Ihr Einsamen von heute, ihr Ausscheidenden</td>
</tr>
<tr>
<td></td>
<td>Professor für Philosophie Axel Honneth</td>
</tr>
<tr>
<td>III</td>
<td>The Hierarchical Structure of the Warburg Library</td>
</tr>
<tr>
<td></td>
<td>The Warburg Institute Library</td>
</tr>
<tr>
<td></td>
<td>Warburg Digital Library Collections</td>
</tr>
<tr>
<td></td>
<td>Contact the Library</td>
</tr>
<tr>
<td>IV</td>
<td>Adolphe Quételet</td>
</tr>
<tr>
<td>V</td>
<td>Jared Diamond and Guns, Germs, and Steel</td>
</tr>
<tr>
<td></td>
<td>The Humongous Howard Bloom and Herbert Spencer</td>
</tr>
<tr>
<td></td>
<td>Some more on &quot;Guns, Germs and Steel&quot;</td>
</tr>
<tr>
<td></td>
<td>The Out-of-Africa model. A key piece in the puzzle</td>
</tr>
<tr>
<td></td>
<td>The Fallacy of the Fossils</td>
</tr>
<tr>
<td></td>
<td>Back to the business of &quot;Guns, Germs and Steel&quot;</td>
</tr>
<tr>
<td></td>
<td>Learning from New Guinea</td>
</tr>
<tr>
<td></td>
<td>More www on Jared Diamond</td>
</tr>
<tr>
<td></td>
<td>Jared Diamond on the www</td>
</tr>
</tbody>
</table>
Naming the Rose: Readers and Codes in Umberto Eco's Novel ........................................................... 133
The Reconquista ........................................................................................................................................ 141
History of Toledo ................................................................................................................................... 141
Toledo School of Translators .................................................................................................................. 141
Monasterio de las Huelgas ........................................................................................................................ 142
Sufism and Gurdjieff ............................................................................................................................... 142
The Works of Annemarie Schimmel ........................................................................................................ 143
Günter Lüling .......................................................................................................................................... 143
Appendix XV: Where even Angels fear to tread ...................................................................................... 144
Contents .................................................................................................................................................. 144
Acknowledgments ................................................................................................................................. 145
I. Setting The Context (Mcb) .................................................................................................................... 145
The Manuscript ...................................................................................................................................... 147
II The World of Mental Process (GB) ......................................................................................................... 152
III Metalogue: Why Do You Tell Stories? (MCB) .................................................................................. 159
Appendix XVI: Just Got Lost in Translation............................................................................................. 163
Appendix XVII: Philosophen im Spannungsfeld .................................................................................... 163
die meisten früheren Philosophen ........................................................................................................... 164
Heutige Philosophie ............................................................................................................................... 164
Not An Appendix XVIII: Some Dangling Odds and Ends ..................................................................... 164
Michelangelo .......................................................................................................................................... 164
The End of the End is the Beginning of another End ............................................................................. 164
Appendix I: Definitions of words in the Morphological Sense

Here I give some Definitions of words in the Morphological and the Meta-Morphological Meaning which are at some times or more often, most of the times... Quite different from the common usage in the High-Quality Mainstream Media, like in the US: The New York Times, the Washington Post, the Atlantic, just to mention some of the best-known of them. And in Germany, the spiegel.de, the welt.de, the zeit.de and the sueddeutsche.de. As I said it with a touch of Ambrose Bierce: The spiegel.de is like a Spiegel-Ei, but without the Ei. This is unfortunately not translatable into English so it is difficult to translate. One could say the German word Spiegel-Ei also means A Mirror-Egg. So some of the word-plays of the German language are not accessible to all the other more Latinized languages of Europe. This is one reason why Heidegger came up with his quip (witzeln) that there are only two languages suitable for proper Philosph'izing: German and Classical Greek. Latin was not so usable at all. And since all the other languages of Europe were more or less Latinized, this is not possible in those languages. This was because the ancient Romans who didn't know Greek in and out, couldn't properly translate the original Semantic Fields of Classical Greek. There very few Romans who knew Greek to such a level of Depth Semantic Fields, since they had their Greek Slaves as tutors for their children, and as Librarians, who did all that work for them.

The Morphology of Bildung

I will now cover a subject that goes into the depths of the Morphological Meanings and Spiritual Character of the Morphology of Semantics, and the Psychology, which I also call Meta-Noia in a different context. The Meta-Noia is usually a quite sudden experience, and this is quite related to the Kata-Strophae in the positive sense of the word, meaning the sudden about-turning of one's World View and especially of one's Spiritual View. Here we get to the deep structures of the Tropia or Tropos, meaning the Turning in Itself, like one turns a glove in-itself. It is not the literal turning around when a car turns around a corner. And this can only be described in the Terminology of Meta-Morphology. There is a Mathematical Discipline of Topology, which is quite related to that. But there is as yet no Mathematical Science of Transformation of Psychical Topology. If it would exist, this would be synonymous to Meta-Morphology and Meta-Noia.

Bildung is a typical German word that is hard to translate into other latinized languages, with its full Semantic Network. It derives from some very old images (imagio, imagination) of Bild, Bildung, Ein-Bildung, Aus-Bildung, Ab-Bildung, and das Ur-Bild. These are all related to originally Greek philosophical and mythological concepts of the Bild [Ikonos]. Somehow, the Ancient Greek mental imageries of Ikonos somehow existed in the Old Nordic languages also. But there is very little documentation left of the old Nordic Mythological Imagery, except the Nordic Mythology which was preserved mostly in Iceland, in the Eddas.

The Meaning of Ikon(os) and the Meta-Morphology

The Meaning of Ikone in the Orthodox Greek Spiritual Art [Ikonos, Eikonos, Iconik, Idea, Eidotos, and then some more terms which we find in the philosophy of Plato]. In Latin we have the imago and the imagination, so we can draw some parallel philosophical tracks between Latin and Greek. And this all refers to Dream Images, on which I do a lengthy discussion in the present text. As I have stated it somewhere, the Dreams are the forgotten Language of God. See especially my interpretation of the Dream interpretation of Daniel, when he decrypted the Dream of Nabochondosor. And I did some more Meta-Morphology with this Dream. And I had stated it also in some passage: The Meta-Morphology of Dreams is quite the same as the
Meta-Morphology of Foam. Because in the German Language one says: Träume sind Schäume. Dreams are like Foam. They are infinitely Morphable. So this kind of Meta-Morphology leans heavily on the Morphology of our Dreams. I have done some in-depth discussion on the powers and applications of the Dream-Time Processor in the present work.

The Bildungsreise
The complemetarity of Meta-Noia is this: Die Bildungsreise is more something of a more leisurely manner to make slow process what one could call the Aus-Bildung of the Character, meaning the Formation of a Mature Character. As one travels around, either in some parts of the Geography and the Cultural Landscape of the Planet Earth, one gains Bildung. Because one gets a lot of impressions of some very different cultures and climates on the way. So when one is able to do this with a Multi-Stage Reflexion process, one gains Bildung. The Bildungsreise is an Age-Old process which was ever present in all the Spiritual Journeys of humanity. It was also called the Pilgrimage, or Pilgrim's Process, and the Grand Tour of the Sons of the British'ers Elites. After completing their reading of the Classics at Oxford or Cambridge, like reading Homer, Odyssee and Illias, and doing some memorizing a few Greek words from those Classics, and then reading some works of Shakespeare, and of Bunyan and of Tennyson, and some more of the famous British'er Literature. When they had finished their studies, the wealthy families of these students sent them on the Grand Tour as it was called. See also: Pilgrim's Progress.

https://en.wikipedia.org/wiki/Alfred,_Lord_Tennyson
https://www.poetryfoundation.org/poems/45392/ulysses

So they went to the places of the Classics that they had read all about in their Seminars at the University, but now they got the images, the smells, the sounds, and the tastes of these fabulous lands where the Ancients had concocted their Poetry and their Mythologies: Italy, Greece, and Egypt. Some even went to India which was very easy at those times since India was a colony of the Mighty British'er Empire of the Queen Victoria. And everything there was exotic, but with a veneer of British'ness so there was really no Culture Shock.

The Bildungsreise of the Germans
An Excerpt from the Handbook for the Native Tourist Guides who catered to German Tourists:

Mein Herr, hat das Essen Ihnen gut geschmocken?

The Bildungsreise also existed for the Germans, like the travels of Goethe to Italy, or the travels of Schopenhauer in Europe. Or the travels of Alexander v. Humboldt to South America. The only small problem was that Germany was quite poor in the 1700's up to 1870, and so the Germans couldn't travel so far and long with the limited money they had. The best tales about German Tourism at these times were those of the "Fromme Helene" by Wilhelm Busch, who went to Heidelberg on honey moon with her newly wed husband, and the story goes like this.

http://www.wilhelm-busch-seiten.de/werke/helene/

In der frommen Helene beleuchtet Wilhelm Busch satirisch religiöse Heuchelei und zwielichtige Bürgermoral:

„Ein guter Mensch gibt gerne acht,
Ob auch der andre was Böses macht;
Und strebt durch häufige Belehrung
Nach seiner Beß'rung und Bekehrung”

http://www.wilhelm-busch-seiten.de/werke/helene/kapitel09.html

Ruinen machen vielen Spaß. -
Auch sieht man gern das große Faß.
Und - alle Ehrfurcht! - muß ich sagen.
Alsbald, so sitzt man froh im Wagen
Und sieht das Panorama schnelle
Vorüberziehn bis zum Hotelle;
Denn Spargel, Schinken, Koteletts
Sind doch mitunter auch was Nett's.
»Pist! Kellner! Stell's Sie eine kalt!
Und, Kellner! Aber möglichst bald!«
Der Kellner hört des Fremden Wort.
Es saust der Frack. Schon eilt er fort.
Wie lieb und luftig perlt die Blase
Der Witwe Klicko in dem Glase. -
Gelobt seist du viel tausendmal!
Helene blättert im Journal.
»Pist! Kellner! Noch einmal so eine!« -
Helenen ihre Uhr ist neune.
Der Kellner hört des Fremden Wort.
Es saust der Frack. Schon eilt er fort.
Wie lieb und luftig perlt die Blase
Der Witwe Klicko in dem Glase.
»Pist! Kellner! Noch so was von den!« -
Helenen ihre Uhr ist zehn. -
Schon eilt der Kellner emsig fort. -
Helene spricht ein ernstes Wort. -
Der Kellner leuchtet auf der Stiegen.
Der fremde Herr ist voll Vergnügen.
Pitsch! - Siehe da! Er löscht das Licht.
Plums! Liegt er da und rührt sich nicht.
http://www.wilhelm-busch-seiten.de/werke/helene/kapitel12.html
The pilgrimage of the fromme Helene is equally hilarious.

Some other works by Busch on pilgrimages are also very instructive:
https://de.wikipedia.org/wiki/Wilhelm_Busch#Werke
http://www.noologie.de/Wallfahrt.htm
I have added some humoristic comments to the work, since it would be senseless if I had just copied it.
https://de.wikipedia.org/wiki/Der_heilige_Antonius_von_Padua
Der heilige Antonius von Padua[1] ist eine der frühen geschlossenen Bildergeschichten des humoristischen
Zeichners und Dichters Wilhelm Busch aus dem Jahr 1864, veröffentlicht 1870. Ähnlich wie Die fromme
Helene (1872) und Pater Filucius (1872) ist die Bildergeschichte von der antiklerikalen Haltung Wilhelm
Buschs geprägt.

https://de.wikipedia.org/wiki/Knopp-Trilogie
Die Knopp-Trilogie ist nach Max und Moritz eines der bekanntesten Werke von Wilhelm Busch. Der
Zweizeiler Vater werden ist nicht schwer / Vater sein dagegen sehr stammt aus dieser Trilogie.
Die Trilogie besteht aus drei Teilen: Abenteuer eines Junggesellen war der erste Teil, deren
Fortsetzungen als Herr und Frau Knopp 1876 und Julchen 1877 erschien. Erstmals ist hier der Bürger
nicht Opfer handlungsstarker Plagegeister, wie es in Max und Moritz oder Hans Huckebein, der Unglücksrabe
der Fall war, sondern durchgängig die handelnde Hauptperson.[1]

The Bildungsreise of Immanuel Kant
The most egregious example of the Bildungsreise in the mInd was Kant, who had never left Königsberg at all.
But he astounded his erudite visitors who had themselves travelled to all those exotic places. Kant had read all
the travel books that he could get, and he had memorized them all down to the details. And Kant was able to
tell them every detail of every Monument, every Temple, and then some Public Buildings. He had such an
excellent eidetic mInd that he could visualize all those places. The only thing that he could not visualize was
what the Prostitutes did in those places, and especially their prices. Or what it was to be ripped off by some
natives when they wanted to show the German tourist the best Restaurants and the best Hotels, and the best
Public Spectacles. Because this was just the business of the Tourism Industry of all Places and of all Times.
Those friendly Tourist Guides always got some good Kickbacks from those Restaurants and Hotels, on top of
the meagre Bakshish that they got from the Tourists. And since the good German Tourists knew nothing at all
about the local customs they always got ripped off very expertly. The natives knew full well that the Germans
were the most gullible and naive Tourists of them all. And somehow I have the impression that when you see
some present-day German tourists in all the Antiquities Markets between Tangiers and Abu Simbel, that the
conditions had not changed at all in those 200 years or so. So there was a wholesale market in Egypt of this
time when the Egyptian Antiquities Forgers came up with so many historical relics of Ancient Egypt that they
had out-produced the Ancient Egyptians by about an order of magnitude. We will never know how many of
those "really original" antique pieces of Egypt in the German Museums are fakes. My informed guess that it is
about half of them. But when one doesn't want to know, one doesn't ask. And it would be quite a shame for the good German Museum directors if one would have found out about all this fakery. So they also never allowed any physicists to make any age tests with their precious exhibits.

Beware! fake Egyptian antiques
https://www.youtube.com/watch?v=mvUm5MeNBTk
Fakes in the art world - The mystery conman | DW Documentary
https://www.youtube.com/watch?v=1lNSXB4i4iE
Forged Egyptian Antiquities
https://www.youtube.com/watch?v=yRs3cfBoHGM
Sadigh Gallery - Seller in fake antiquities!
https://https://www.youtube.com/watch?v=DVqzyAf8pIc

Then there was the good Hegel, who also never got to go anywhere except Stuttgart and then some environs... and then straight to Berlin where he became Professor of Philosophy.

https://en.wiktionary.org/wiki/environ
As a little side note we may mention Karl May, who also did a Bildungsreise, in the friendly Library of the Prison where he was just serving time in. Fortunately this Prison had a very good library of books about Travels into Far-Far-Away countries, so the good Karl May could do his Bildungsreise entirely while sitting in his cell in this Prison, and since he had such a good phantasy, he was able to do the whole Bildungsreise in his mind. So this proves that one can do a Bildungsreise and not leave your little nice cozy Prison Cell at all.

https://de.wikipedia.org/wiki/Karl_May
http://karl-may-wiki.de/index.php/Bibliothek_der_Strafanstalt_Schloss_Osterstein
Die Gefangenenbibliothek
Für die katholischen Detinierten gab es eine eigene "ziemlich reichhaltige" Bibliothek, die unter der Verwaltung des katholischen Geistlichen stand.\[2\]

And the Germans had another difficulty. Since in the whole of the British'er Empire, which comprised the better part of the Planet, the Lingua Franca was English, so every Beduin in Egypt knew some English, equally every Ricksha driver in India and China. [I just liked this Indiana Jones movie temple of Doom. There the Ricksha driver has a prominent role.] So the good English'man could be sure to get some friendly help from "the natives" who were of course eager to get some "Bakshish" from the always quite wealthy English'er Traveller, who was surely rich when compared to the income of "the natives". We may also note a quote by Wilhelm Busch:

https://gutenberg.spiegel.de/buch/plisch-und-plum-4189/27
< Kapitel 27>
[Alleh -> Allez vous, Enfants de la Patrie. Wilhelm Busch surely didn't like Napolium.]

https://en.wikipedia.org/wiki/Indiana_Jones_and_the_Temple_of_Doom
In 1935, Indiana Jones narrowly escapes the clutches of Lao Che, a crime boss in Shanghai, China. With his 11-year-old Chinese sidekick Short Round and the nightclub singer Willie Scott in tow, Indy flees Shanghai on an airplane that, unbeknownst to them, is owned by Lao Che. While the three of them are asleep on the plane, the pilots dump the fuel and parachute out, leaving the plane to crash over the Himalayas. Indy, Shorty, and Willie discover the sabotage and narrowly manage to escape by jumping out of the plane on an inflatable raft. They ride down the mountain slopes and fall into a raging river, eventually arriving at the village of Mayapore in northern India. The impoverished villagers believe the three to have been sent by Shiva to retrieve the sacred lingam stone stolen from their shrine, as well as the community's missing children, from evil forces in the nearby Pankot Palace. During the journey to Pankot, Indy hypothesizes that the stone may be one of the five fabled Sankara stones that promise fortune and glory.

The trio receive a warm welcome from the Prime Minister of Pankot Palace, Chattar Lal. The visitors are allowed to stay the night as guests, during which they attend a lavish but grotesque banquet given by the young Maharaja, Zalim Singh. Lal rebuffs Indy's questions about the villagers' claims and his theory that the ancient Thuggee cult is responsible for their troubles. Later that night, Indy is attacked by an assassin, leading Indy, Willie, and Shorty to believe that something is amiss. After Indy kills the assassin, they discover a series of tunnels hidden behind a statue in Willie's room and set out to explore them, overcoming a number of booby-traps along the way.

The trio eventually reach an underground temple where the Thugs worship Kali with human sacrifice. They watch as the Thugs chain one of their victims in a cage and slowly lower him into a ceremonial lava pit, burning him alive. They discover that the Thugs, led by their high priest Mola Ram, are in possession of three of the five Sankara stones, and have enslaved the children to mine for the last two. As Indy tries to retrieve the stones, he, Willie, and Shorty are captured and separated. Indy is whipped and forced to drink a potion called the Blood of Kali, causing him to enter a trance-like state and mindlessly serve the Thugs. Willie is prepared for sacrifice, while Shorty is whipped and put to work in the mines alongside the children. Shorty breaks free and escapes back into the temple, where he burns Indy with a torch to bring him back to his senses. After fighting off the guards and defeating Lal, Indy stops Willie's cage and cranks it out of the pit just in time to save her from the fire, while Mola Ram escapes. Indy retrieves the Sankara stones, and the three return to the mines to free the children. As Indy fights a hulking overseer, Singh—also under Mola Ram's control—tries to cripple him with a voodoo doll. Shorty knocks the doll away and burns him to break the trance, and a restored Indy escapes and leaves the overseer to die in a rock crusher.

The trio escape from the temple in a mine cart, pursued by Thugs, while Mola Ram orders a water cistern dumped in an attempt to flood them out. After barely escaping the deluge, they are again cornered by Mola Ram and his henchmen on a rope bridge high above a crocodile-infested river. Indy cuts the bridge in half with one man's sword, leaving everyone to hang on for their lives. As he and Mola Ram struggle over the stones, causing him to lose his grip and fall to his death; Indy catches the last one safely and climbs up as a company of British Indian Army riflemen, summoned by Singh, arrive and open fire on the Thuggee archers trying to shoot him. Indy, Willie, and Shorty return to Mayapore with the children and give the missing stone back to the villagers.

**Bildung is a typical German Word**

Bildung is a typical German word that is hard to translate into other latinized languages, since it derives from some very old images (imago) of Bild, Bildung, Abbild, and Urbild, which are derived from originally Greek philosophical concepts of the Bild. Meaning Ikon [like Ikone in the Orthodox Greek Spiritual Art] Ikonos, Eikonos, Ikonik, Idea, Eidotos, and then some more terms which we find in the philosophy of Platon. In Latin we have the imago and the imagination, so we can draw some parallel philosophical tracks between Latin and Greek. And this all refers to Dream Images, on which I do a lengthy discussion in the present text. As I have stated it somewhere, the Dreams are the forgotten Language of God. See especially my interpretation of the Dream interpretation of Daniel, when he decrypted the Dream of Nabochonosor. And I did some more Meta-Morphology with this Dream. And I had stated it also in some passage: The Meta-Morphology of Dreams is quite the same as The Meta-Morphology of Foam. Because in the German Language one says: Träume sind Schäume. Dreams are like Foam. They are infinitely Morphable. So this kind of Meta-Morphology leans heavily on the Morphology of our Dreams. I have done some in-depth discussion on the powers and applications of the Dream-Time Processor in the present work.

**Samuel Johnson**

I will also refer to the dictionary of Samuel Johnson, who came up with his famous work on 15 April 1755. I would call his dictionary a precursor of my own Meta-Morphological work on Language, Linguistics, Neurolinguistic Reframing of words and concepts, and also the deep structures of Semantics and Semiotics. See also the work of Umberto Eco who was one of the Grand Masters of Semiotics, next to Peirce, Lotman... I have done extensive stories on Semiotics, and I will include some of that work later on. I have also made some
studies on the business of Dis-Information using the techniques of Bowdler'izing and Euphemism. One can subsume the latter Dis-Information techniques under the general heading of Neurolinguistic Reframing, as was so well documented in a recent project of the ARD (Deutsches Nationales Qualitäts-Fernsehen).
https://www.spiegel.de/spiegel/print/d-13692982.html

Published on 15 April 1755[1] and written by Samuel Johnson, A Dictionary of the English Language, sometimes published as Johnson's Dictionary, is among the most influential dictionaries in the history of the English language.

OPULENCE
Wealth; riches; affluence

"There in full opulence a banker dwelt,
Who all the joys and pangs of riches felt;
His sideboard glitter'd with imagin'd plate,
And his proud fancy held a vast estate."
-- Jonathan Swift

There was dissatisfaction with the dictionaries of the period, so in June 1746 a group of London booksellers contracted Johnson to write a dictionary for the sum of 1,500 guineas (£1,575), equivalent to about £240,000 in 2019. Johnson took seven years to complete the work, although he had claimed he could finish it in three. He did so single-handedly, with only clerical assistance to copy the illustrative quotations that he had marked in books. Johnson produced several revised editions during his life. Until the completion of the Oxford English Dictionary 173 years later, Johnson's was viewed as the pre-eminent English dictionary. According to Walter Jackson Bate, the Dictionary "easily ranks as one of the greatest single achievements of scholarship, and probably the greatest ever performed by one individual who laboured under anything like the disadvantages in a comparable length of time".

... Unlike most modern lexicographers, Johnson introduced humour or prejudice into quite a number of his definitions. Among the best-known are:
*"Excise: a hateful tax levied upon commodities and adjudged not by the common judges of property but wretches hired by those to whom excise is paid"*[11]
*"Lexicographer: a writer of dictionaries; a harmless drudge that busies himself in tracing the original and detailing the signification of words"*[12]
*"Oats: a grain which in England is generally given to horses, but in Scotland [it] supports the people"*[13]
A much less well-known example is:
*"Monsieur: a term of reproach for a Frenchman"*[14]
He included whimsical little-known words, such as:
*"Writative – A word of Pope's, not to be imitated: "Increase of years makes men more talkative but less writative; to that degree I now write letters but of plain how d'ey's.""*[15]

Ambrose Bierce: The Devil's Dictionary
I also make good use of The Devil's Dictionary by Ambrose Bierce. My favorite philosophical definition is the one on Descartes. Ambrose Bierce had a very keen understanding of all the nonsense that the good Descartes had concocted in his... Well er, I wouldn't call this philosophy at all, because this is exactly a case of very sophisticated Philosophical Schizophrenia. It may be very sophisticated, but it still is Schizophrenia. Meaning a split, this time of mind and the Body, or the Soma and the Spirit. This insanity was consequently enlarged upon and driven into the ultimate logical Suprematization of Insanity [See: Sloterdijk: Gottes Eifer] by the good Hegel and his School of Insanity, er I mean The School of German Idealism. The good Hegel and his school carried the split just a little further into the lofty heights of the Logics of Impossibility and of Vacuousness, meaning the Vacuous that forms in the mind of a German Idealist Philosopher, instead of any usable idea: The Split of Leib und Geist, or Körper und Geist, or Materie und Geist. By the same token, one can also call it The School of German Schizophrenia. But it all came about by the initial [or original sin] of the system of Descartes. But we can trace that bad idea back throughout all the ages to the good Platon, who came up with the bad idea of the idea, and this was the beginning of all the pitfalls of human thinking. As Whitehead had stated it quite succinctly: Most of the history of Western Philosophy consists of a series of footnotes to Platon.

CARTESIAN, adj.
Relating to Descartes, a famous philosopher, author of the celebrated dictum, Cogito ergo sum -- whereby he was pleased to suppose he demonstrated the reality of human existence. The dictum might be improved, however, thus: Cogito cogito ergo cogito sum -- "I think that I think, therefore I think that I am;" as close an approach to certainty as any philosopher has yet made.

BRAHMA, n.
He who created the Hindoos, who are preserved by Vishnu and destroyed by Siva -- a rather neater division of labor than is found among the deities of some other nations. The Abracadabranese, for example, are created by Sin, maintained by Theft and destroyed by Folly. The priests of Brahma, like those of the Abracadabranese, are holy and learned men who are never naughty.

https://en.wikipedia.org/wiki/The_Devil%27s_Dictionary

The Devil's Dictionary is a satirical dictionary written by American Civil War soldier, journalist, and writer Ambrose Bierce consisting of common words followed by humorous and satirical definitions. The lexicon was written over three decades as a series of installments for magazines and newspapers. Bierce's witty definitions were imitated and plagiarized for years before he gathered them into books, first as The Cynic's Word Book in 1906 and then in a more complete version as The Devil's Dictionary in 1911.

Initial reception of the book versions was mixed. In the decades following, however, the stature of The Devil's Dictionary grew. In the 1970s, The Devil's Dictionary was named as one of "The 100 Greatest Masterpieces of American Literature" by the American Revolution Bicentennial Administration. It has been called "howlingly funny" and Wall Street Journal columnist Jason Zweig wrote that The Devil's Dictionary is "probably the most brilliant work of satire written in America. And maybe one of the greatest in all of world literature."

Sample definitions

Cannon
(n.) An instrument employed in the rectification of national boundaries.

Conservative
(n.) A statesman who is enamoured of existing evils, as distinguished from the Liberal, who wishes to replace them with others.

Cynic
(n.) A blackguard whose faulty vision sees things as they are, not as they ought to be. Hence the custom among the Scythians of plucking out a cynic's eyes to improve his vision.

Egotist
(n.) A person of low taste, more interested in himself than in me.

Faith
(n.) Belief without evidence in what is told by one who speaks without knowledge, of things without parallel.

Lawyer
(n.) One skilled in circumvention of the law.

Love
(n.) A temporary insanity curable by marriage...

Marriage
(n.) A household consisting of a master, a mistress, and two slaves, making in all, two.

Positive
(a.) Mistaken at the top of one's voice.

Religion
(n.) A daughter of Hope and Fear, explaining to Ignorance the nature of the Unknowable.

Youth
(n.) The Period of Possibility, when Archimedes finds a fulcrum, Cassandra has a following and seven cities compete for the honor of endowing a living Homer. Youth is the true Saturnian Reign, the Golden Age on earth again, when figs are grown on thistles, and pigs basted with whiskies and, wearing silken bristles, live ever in clover, and cows fly over, delivering milk at every door, and Justice is never heard to snore, and every assassin is made a ghost and, howling, is cast into Baltimost! —Polydore Smith

Under the entry "leonine", meaning a single line of poetry with an internal rhyming scheme, Bierce included an apocryphal couplet written by the fictitious "Bella Peeler Silcox" (i.e. Ella Wheeler Wilcox) in which an internal rhyme is achieved in both lines only by mispronouncing the rhyming words:
The electric light invades the dunnest deep of Hades.
Cries Pluto, 'twixt his snores: "O tempora! O mores!"
Mark Twain
Even though Mark Twain didn't provide a dictionary, one can extract from his works many interesting entries of the Meta-Morphing of words and concepts.

Jonathan Swift: Gulliver's Travels
Even though Jonathan Swift didn't provide a dictionary, one can extract from his works many interesting entries of the Meta-Morphing of words and concepts.

https://en.wikipedia.org/wiki/Gulliver%27s_Travels

Gulliver's Travels, or Travels into Several Remote Nations of the World. In Four Parts. By Lemuel Gulliver, First a Surgeon, and then a Captain of Several Ships is a prose satire of 1726 by the Irish writer and clergyman Jonathan Swift, satirising both human nature and the "travellers' tales" literary subgenre. It is Swift's best known full-length work, and a classic of English literature. Swift claimed that he wrote Gulliver's Travels "to vex the world rather than divert it".

The book was an immediate success. John Gay remarked "It is universally read, from the cabinet council to the nursery."[3]
Part I: A Voyage to Lilliput
Part II: A Voyage to Brobdingnag
Part III: A Voyage to Laputa, Balnibarbi, Luggnagg, Glubbdubdrib and Japan
Part IV: A Voyage to the Land of the Houyhnhnms

Gulliver's Travels has been the recipient of several designations: from Menippean satire to a children's story, from proto-science fiction to a forerunner of the modern novel.

It has three themes:
A satirical view of the state of European government, and of petty differences between religions
An inquiry into whether men are inherently corrupt or whether they become corrupted
A restatement of the older "ancients versus moderns" controversy previously addressed by Swift in The Battle of the Books

A possible reason for the book's classic status is that it can be seen as many things to many different people. Broadly, the book has three themes:
A satirical view of the state of European government, and of petty differences between religions
An inquiry into whether men are inherently corrupt or whether they become corrupted
A restatement of the older "ancients versus moderns" controversy previously addressed by Swift in The Battle of the Books

In storytelling and construction, the parts follow a pattern:
The causes of Gulliver's misadventures become more malignant as time goes on—he is first shipwrecked, then abandoned, then attacked by strangers, then attacked by his own crew.
Gulliver's attitude hardens as the book progresses—he is genuinely surprised by the viciousness and politicking of the Lilliputians but finds the behaviour of the Yahoos in the fourth part reflective of the behaviour of people.
Each part is the reverse of the preceding part—Gulliver is big/small/wise/ignorant, the countries are complex/simple/scientific/natural, and the forms of government are worse/better/worse/better than Britain's.
Gulliver's viewpoint between parts is mirrored by that of his antagonists in the contrasting part—Gulliver sees the tiny Lilliputians as being vicious and unscrupulous, and then the king of Brobdingnag sees Europe in exactly the same light; Gulliver sees the Laputians as unreasonable, and his Houyhnhnm master sees humanity as equally so.
No form of government is ideal — the simplistic Brobdingnagians enjoy public executions and have streets infested with beggars, the honest and upright Houyhnhnms who have no word for lying are happy to suppress the true nature of Gulliver as a Yahoo and are equally unconcerned about his reaction to being expelled.
Specific individuals may be good even where the race is bad—Gulliver finds a friend in each of his travels and, despite Gulliver's rejection and horror toward all Yahoos, is treated very well by the Portuguese captain, Don Pedro, who returns him to England at the novel's end.

Voltaire Candide: Also A Bildungsreise
This is also a masterpiece of Voltaire's satirical thinking where he rips apart the Theodicee of Leibniz. The Morphological similarity with Gulliver's travels is quite apparent, since this is also a Bildungsroman in the Goethe'an sense.
It means that the character of Candide in his travels together with Professor Pangloss [This is Leibniz] undergoes some transformation of character leading to some sort of Purification or Des-Illusionment. This is again an Age-Old Theme, because it starts out with the Odyssee. (I always do the spelling in the original word of Ancient Greek, and not in the corrupted latinized Version of Corrupt English which tends to distort the Semantic Network). The Bildungsroman is mostly the Bildungsreise meaning the Spiritual Travel or Pilgrimage by which one reaches Spiritual Maturity. So we can extend this genre to the Don Quixote by Cervantes, the Travels of Dante into the many tiers of Hell, and Bunyan's Pilgrim's Progress and then many many more. The Pilgrimage to Compostela is one of the better known Spiritual Travels and there is quite a good book by Hape Kerkeling where he describes his inner spiritual experience but with a lot of humor, as we are accustomed from the humoristic masterpieces of Hape Kerkeling.

**Hape Kerkeling: Ich bin dann mal weg**

Of course the good Hape Kerkeling did a little word-play here. I am quite absolutely sure, that no-one in Germany noticed the word-play: It means "Ich bin gerade mal auf dem Pilger-Weg".

https://de.wikipedia.org/wiki/Ich_bin_dann_mal_weg


**Inhalt**


**Camino de Santiago**

https://en.wikipedia.org/wiki/Camino_de_Santiago

The Camino de Santiago (Latin: Peregrinatio Compostellana, “Pilgrimage of Compostela”; Galician: O Camiño de Santiago)[1][2][3][4] is known in English as the Way of Saint James among other names,[2][3][4] is a network of pilgrims' ways or pilgrimages leading to the shrine of the apostle Saint James the Great in the cathedral of Santiago de Compostela in Galicia in northwestern Spain, where tradition has it that the remains of the saint are buried. Many follow its routes as a form of spiritual path or retreat for their spiritual growth. It's also popular with hiking and cycling enthusiasts and organized tour groups. The French Way (Camino Francés) and the Routes of Northern Spain are the courses listed in the World Heritage List by UNESCO.

**Enlightenment Era**

During the war of American Independence, John Adams (who would become the second American president) was ordered by Congress to go to Paris to obtain funds for the cause. His ship started leaking and he disembarked with his two sons at Finisterre in 1779. From there he proceeded to follow the Way of St. James in the reverse direction of the pilgrims' route, in order to get to Paris overland. He did not stop to visit Santiago, which he later came to regret. In his autobiography, Adams described the customs and lodgings afforded to St. James's pilgrims in the 18th century and he recounted the legend as he learned it:[22]

I have always regretted that We could not find time to make a Pilgrimage to Santiago de Compostella. We were informed, ... that the Original of this Shrine and Temple of St. Iago was this. A certain Shepherd saw a bright Light there in the night. Afterwards it was revealed to an Archbishop that St. James was buried there. This laid the Foundation of a Church, and they have built an Altar on the Spot where the Shepherd saw the Light. In the time of the Moors, the People made a Vow, that if the Moors should be driven from this Country, they would give a certain portion of the Income of their Lands to Saint James. The Moors were defeated and expelled and it was reported and believed, that Saint James was in the Battle and fought with a drawn Sword at the head of the Spanish Troops, on Horseback. The People, believing that they owed the
Victory to the Saint, very cheerfully fulfilled their Vows by paying the Tribute. ...Upon the Supposition that this is the place of the Sepulchre of Saint James, there are great numbers of Pilgrims, who visit it, every Year, from France, Spain, Italy and other parts of Europe, many of them on foot.

Adams’ great-grandson, the historian Henry Adams, visited Leon among other Spanish cities during his trip through Europe as a youth, although he did not follow the entire pilgrimage route. Another Enlightenment-era traveler on the pilgrimage route was the naturalist Alexander von Humboldt.

**The Pilgrim's Progress from This World**

https://en.wikipedia.org/wiki/The_Pilgrim%27s_Progress

*The Pilgrim's Progress from This World, to That Which Is to Come* is a 1678 Christian allegory written by John Bunyan. It is regarded as one of the most significant works of religious English literature, has been translated into more than 200 languages, and has never been out of print. It has also been cited as the first novel written in English.

Bunyan began his work while in the Bedfordshire county prison for violations of the Conventicle Act of 1664, which prohibited the holding of religious services outside the auspices of the established Church of England. Early Bunyan scholars such as John Brown believed The Pilgrim's Progress was begun in Bunyan's second, shorter imprisonment for six months in 1675, but more recent scholars such as Roger Sharrock believe that it was begun during Bunyan's initial, more lengthy imprisonment from 1660 to 1672 right after he had written his spiritual autobiography *Grace Abounding to the Chief of Sinners*.

The English text comprises 108,260 words and is divided into two parts, each reading as a continuous narrative with no chapter divisions. The first part was completed in 1677 and entered into the Stationers' Register on 22 December 1677. It was licensed and entered in the "Term Catalogue" on 18 February 1678, which is looked upon as the date of first publication. After the first edition of the first part in 1678, an expanded edition, with additions written after Bunyan was freed, appeared in 1679. The Second Part appeared in 1684. There were eleven editions of the first part in John Bunyan's lifetime, published in successive years from 1678 to 1685 and in 1688, and there were two editions of the second part, published in 1684 and 1686.

The entire book is presented as a dream sequence narrated by an omniscient narrator. The allegory's protagonist, Christian, is an everyman character, and the plot centres on his journey from his hometown, the "City of Destruction" ("this world"), to the "Celestial City" ("that which is to come": Heaven) atop Mount Zion. Christian is weighed down by a great burden—the knowledge of his sin—which he believed came from his reading "the book in his hand" (the Bible). This burden, which would cause him to sink into Hell, is so unbearable that Christian must seek deliverance. He meets Evangelist as he is walking out in the fields, who directs him to the "Wicket Gate" for deliverance. Since Christian cannot see the "Wicket Gate" in the distance, Evangelist directs him to go to a "shining light," which Christian thinks he sees. Christian leaves his home, his wife, and children to save himself: he cannot persuade them to accompany him. Obstinate and Pliable go after Christian to bring him back, but Christian refuses. Obstinate returns disgusted, but Pliable is persuaded to go with Christian, hoping to take advantage of the Paradise that Christian claims lies at the end of his journey. Pliable's journey with Christian is cut short when the two of them fall into the Slough of Despond, a boggy mire-like swamp where pilgrims' doubts, fears, temptations, lusts, shames, guilts, and sins of their present condition of being a sinner are used to sink them into the mud of the swamp. It is there in that bog where Pliable abandons Christian after getting himself out. After struggling to the other side of the slough, Christian is pulled out by Help, who has heard his cries and tells him the swamp is made out of the decadence, scum, and filth of sin, but the ground is good at the narrow Wicket Gate.

**Tennyson, Ulysses**

There is a very good poem, the Ulysses by Tennyson, which fits in quite nicely in the present context. So I just include it here.

https://www.poetryfoundation.org/poems/45392/ulysses

It little profits that an idle king,
By this still hearth, among these barren crags,
Match'd with an aged wife, I mete and dole
Unequal laws unto a savage race,
That hoard, and sleep, and feed, and know not me.
I cannot rest from travel: I will drink
Life to the lees: All times I have enjoy'd
Greatly, have suffer'd greatly, both with those
That loved me, and alone, on shore, and when
Thro' scudding drifts the rainy Hyades
Vext the dim sea: I am become a name;
For always roaming with a hungry heart
Much have I seen and known; cities of men  
And manners, climates, councils, governments,  
Myself not least, but honour’d of them all;  
And drunk delight of battle with my peers,  
Far on the ringing plains of windy Troy.  
I am a part of all that I have met;  
Yet all experience is an arch wherethro’  
Gleams that untravell’d world whose margin fades  
For ever and forever when I move.  
How dull it is to pause, to make an end,  
To rust unburnish’d, not to shine in use!  
As tho’ to breathe were life! Life piled on life  
Were all too little, and of one to me  
Little remains: but every hour is saved  
From that eternal silence, something more,  
A bringer of new things; and vile it were  
For some three suns to store and hoard myself,  
And this gray spirit yearning in desire  
To follow knowledge like a sinking star,  
Beyond the utmost bound of human thought.  

This is my son, mine own Telemachus,  
To whom I leave the sceptre and the isle,—  
Well-loved of me, discerning to fulfil  
This labour, by slow prudence to make mild  
A rugged people, and thro' soft degrees  
Subdue them to the useful and the good.  
Most blameless is he, centred in the sphere  
Of common duties, decent not to fail  
In offices of tenderness, and pay  
Meet adoration to my household gods,  
When I am gone. He works his work, I mine.  

There lies the port; the vessel puffs her sail:  
There gloom the dark, broad seas. My mariners,  
Souls that have toil’d, and wrought, and thought with me—  
That ever with a frolic welcome took  
The thunder and the sunshine, and opposed  
Free hearts, free foreheads—you and I are old;  
Old age hath yet his honour and his toil;  
Death closes all: but something ere the end,  
Some work of noble note, may yet be done,  
Not unbecoming men that strove with Gods.  
The lights begin to twinkle from the rocks:  
The long day wanes: the slow moon climbs: the deep  
Moans round with many voices. Come, my friends,  
’T is not too late to seek a newer world.  
Push off, and sitting well in order smite  
The sounding furrows; for my purpose holds  
To sail beyond the sunset, and the baths  
Of all the western stars, until I die.  
It may be that the gulfs will wash us down:  
It may be we shall touch the Happy Isles,  
And see the great Achilles, whom we knew.  
Tho’ much is taken, much abides; and tho’
We are not now that strength which in old days
Moved earth and heaven, that which we are, we are;
One equal temper of heroic hearts,
Made weak by time and fate, but strong in will
To strive, to seek, to find, and not to yield.

Gargantua and Pantagruel
The French had considerably less of the famous Britisher humor of Samuel Johnson and the others mentioned above. But they also had some good ones.

https://en.wikipedia.org/wiki/Gargantua_and_Pantagruel

The Life of Gargantua and of Pantagruel (French: La vie de Gargantua et de Pantagruel) is a pentalogy of novels written in the 16th century by François Rabelais, which tells of the adventures of two giants, Gargantua (/ɡɑːrˈɡæntjuə/; French: [ɡaʁɡɑ̃tya]) and his son Pantagruel (/pænˈtæɡruɛl, -əl, ˌpæntəˈɡruːəl/; French: [pɑ̃taɡʁyɛl]). The text is written in an amusing, extravagant, and satirical vein, and features much crudity, scatological humor, and violence (lists of explicit or vulgar insults fill several chapters).

The censors of the Collège de la Sorbonne stigmatized it as obscene,[1] and in a social climate of increasing religious oppression in a lead up to the French Wars of Religion, it was treated with suspicion, and contemporaries avoided mentioning it.[2] According to Rabelais, the philosophy of his giant Pantagruel, "Pantagruelism", is rooted in "a certain gaiety of mind pickled in the scorn of fortuitous things" (French: une certaine gaîté d'esprit confite dans le mépris des choses fortuites).

Rabelais had studied Ancient Greek and he applied it in inventing hundreds of new words in the text, some of which became part of the French language.[3] Wordplay and risqué humor abound in his writing.

Cognitive Dissonance
https://www.linguee.com/english-german/translation/cognitive+dissonance.html

given by Leon Festinger in which he argued, based on cognitive dissonance research, for the incompatibility of intrinsic and...

Leon Festinger, in dem er aufgrund von Forschung zu kognitiver Dissonanz die Unverträglichkeit intrinsicscher und extrinsicscher Motivationsquellen darlegte.

Incommensurability

There is also a related expression called Incommensurability. It just means that when one doesn't realize that when any two concepts are Incommensurable, there arises a Cognitive Dissonance. And that means in turn that people have a tendency to entertain at the same time some Incommensurable concepts and ideas, and when they don't notice this, there arises the Cognitive Dissonance.

incommensurable adj
inkommensurabel adj
unvergleichbar adj
less common:
unvereinbar adj / unvergleichlich adj / nicht vergleichbar adj / nicht messbar adj / nicht zu vereinbaren

On the Tributes

In those earlier times of statehood, the taxes were called tributes.

https://www.lexico.com/en/definition/tribute

1 An act, statement, or gift that is intended to show gratitude, respect, or admiration.

‘the video is a tribute to the musicals of the 40s’

mass noun ‘a symposium organized to pay tribute to Darwin’

1.1 in singular Something resulting from a particular quality or feature and indicating its worth.

‘his victory in the championship was a tribute to his persistence’

1.2 as modifier Denoting or relating to a group or musician that performs the music of a more famous one and typically imitates them in appearance and style of performance.

‘an Abba tribute band’

‘a tribute show’

2 historical mass noun Payment made periodically by one state or ruler to another, especially as a sign of dependence.

‘the king had at his disposal plunder and tribute amassed through warfare’

3 historical A proportion of ore or its equivalent, paid to a miner for his work, or to the

Origin
Late Middle English (in tribute (sense 2)): from Latin tributum, neuter past participle (used as a noun) of tribuere ‘assign’ (originally ‘divide between tribes’), from tribus ‘tribe.’
Appendix II: Peter Sloterdijk Special

Spoiler Alert! I don't want to spoil anyone's fun, but the following text contains some material which some people may find Offensive, Disgusting, Grossed out, and even Politically Incorrect.
But this is Anthropological Material.
Any further Reading here is wholly on your Own Responsibility!!!
Introduction
Peter Sloterdijk is in Germany a popular writer on philosophical subjects who has among the highest number of books sold to a large public with intellectual aspirations compared to other philosophical authors. To mention a few contenders in popularity: Rüdiger Safranski and Richard David Precht. Of course there is quite a difference between "philosophy" in the US-British sense and the German akademik sense. So we could make a sub-classification between "serious" or "akademik" philosophy on one side, and "pop philosophy" in the US-British sense on the other side. There can even be a "philosophy" of hamburger cooking. This was developed by Mihaly Csikszentmihalyi in his theory of "flow".

The experience of "flow" is strikingly reminiscent of Zhuangzi's description of "great skill" achieved by Daoist sages such as carpenter P'ien and butcher Ting, the latter finding bliss in the art of chopping up ox carcasses by "going along with the Dao" of the ox. It is no coincidence that these blue-collar sages are situated on the bottom rungs of the social hierarchy. They discover the Dao much more readily than Confucian scholars, who, according to Zhuangzi, are studying the "dregs of wisdom" in lifeless books and have lost touch with the world of concrete affairs.

https://en.wikipedia.org/wiki/Mihaly_Csikszentmihalyi
https://ze.tt/zum-angeben-diese-werke-praegen-die-philosophie/
https://www.buchreport.de/bestseller/buch/isbn/9783442155286.htm/

Richard David Precht is a contender in the Top 5, but he has contributed more by promoting the popularization of philosophy, while not having made any significant contributions to the academic philosophical discussion. Such is quite clearly the case with Peter Sloterdijk's works. Exactly what his style of writing and thinking makes it so popular to a wider readership is of course a source of criticism by the more academically oriented part of the Mainstream Philosophical community. And there is especially a faction which draws its intellectual orientation on the Frankfurter Schule which talks in the most averse terms about Sloterdijk. I don't want to get too embroiled in those very polemical discussions of a climate of quite violently flaring tempers that are showing up there. It is, as Sloterdijk sometimes expresses it: There is no "Streitkultur" in the German Intelligenzia, but rather more a culture of ideological defamation and ad hominem attacks.

One can safely state a quite obvious general rule: The more success a "philosopher" has on the pop philosophy market, the more he will be seriously criticized by the "akademik" philosophy establishment. Such is quite decidedly the case with Peter Sloterdijk's works. Exactly what his style of writing and thinking makes it so popular to a wider readership is of course a source of criticism by the more academically oriented part of the Mainstream Philosophical community. And there is especially a faction which draws its intellectual orientation on the Frankfurter Schule which talks in the most averse terms about Sloterdijk. I don't want to get too embroiled in those very polemical discussions of a climate of quite violently flaring tempers that are showing up there. It is, as Sloterdijk sometimes expresses it: There is no "Streitkultur" in the German Intelligenzia, but rather more a culture of ideological defamation and ad hominem attacks.

I personally rather like to view this scenario under the viewpoint of an anthropologist. Possibly I would even like to take the position of a visiting anthropologist from another very distant interstellar civilization who has chosen to study the wheelings and dealings of the humanoid inhabitants of the planet Earth from the stance of a distanced and impartial observer. Or as Popper (1962) once expressed it: As a visiting Anthropologist doing field research on the "Totems and Tabus of the natives of the mostly white races of north-western Europe and North America". In one of my more pointed definitions of what an anthropologist considers his main job, is that he views and studies all those things that the normal "civilized" humans would never admit that they are doing, despite their overt laws&order and rules&regulations and their moral&ethical pro-fessions. A famous saying about puritans illustrates the point: "Puritanism means that you can do anything whatsoever, as long as you don't enjoy it". The anthropological view of akademik philosophy notes that it has its more or less explicit rules of discourse and conduct, meaning that it should be rational in the western philosophical definition of rationality. Clearly the controversy around Sloterdijk's work is going far beyond rationality.

Peter Sloterdijk and Computer Assisted Philosophy
It comes to my mind that Peter Sloterdijk was the first pioneering Deutsche Geisteswissenschaftler who started using a computer for doing multi medial work back in the 1980's. This was "Die Kritik der zynischen Vernunft, of 1983". He did something quite unprecedented, because he included a lot of pictures in his work. At those times it was pretty hard in terms of computer resources to do this. I know this myself, what a struggle it was with the personal computers of the time, to integrate text and pictures. So he was quite a pioneer in the field. Contrarily all the Deutsche Geisteswissenschaftler's always abhorred to put pictures in their work. Especially the philosophers would never have to do with pictures, this was and still is something of a dogma.
that a philosopher may never use a picture. This is like the Gottseibeiuins of the Philosophy business. Sloterdijk was therefore something like an iconoclast. This is something of an irony in itself because he included icons (or pictures) in his work. And the conventional philosophers consequently abhorred the method of Sloterdijk, and made him persona non grata in the philosophical circles. Such are the ironies in the history of the Deutsche Philosophy. And consequently no-one in the Deutsche Philosophy ever noticed what a pioneering work he had done. The Deutsche Philosophers just bickered so much that the style of writing and thinking of the Sloterdijk was not to their liking. Fortunately he managed to get the post of director at the University (or rather Hochschule) of Art and Design in Karlsruhe. This was the only institution in Germany where there was a fusion of art and technology. And I must say this with emphasis. This was an institution of Art, and not of Philosophy. There he had a small circle of people like Peter Weibel, Bruno Latour, and Bazon Brock. And here he could develop his works further. So Sloterdijk couldn't care less what the Deutsche Philosophers thought of him. You can kiss my back, he probably thought. And he made so much money from his books, which was on top of his salary at the Hochschule, that he was probably the richest Philosopher in all of Deutschland.

As the unfathomable twisting paths of the fate had it, I did my own doctorate at the University of Wuppertal, where Bazon Brock was professor. Another strange twist of fate was, when I did my doctorate there, at the same time Sloterdijk did his work on the Sphären, which was Cultural Morphology. And in my dissertation I also did Cultural Morphology. We both were heavily leaning on Spengler. So we were both embarking on the same venture. Only Bazon Brock never noticed that we did the same kind of work and he never drew my attention to this. But this is another story.

I can give some additional information on my own computer experience: I was in 1978 in the San Francisco Bay area, and I went some times to the Home Brew Computer Club in Menlo Park where the two Steves, Jobs and Wozniak, presented their Apple I computer. I had been on Personal Computers since 1978 so I know all about the history of those devices. And also the Blood, Sweat, and Tears, to get those little bastards to do anything useful.


Peter Weibel entwickelte diese Überlegungen ab 1969 konsequent in seinen Videobändern sowie Installationen weiter. Mit seiner Fernsehaktionen, den teleaktionen, die das Österreichische Fernsehen (orf) 1972 im Rahmen der Sendung impulse ausstrahlte, überschritt er die Grenzen des Galerieraumes und untersuchte die Videotechnik in ihrer Anwendung im Massenmedium Fernsehen.


https://de.wikipedia.org/wiki/Bazon_Brock


Neurionale Ästhetik

Im Oktober 1978 präsentierte Bazon Brock im Rahmen des Steirischen Herbstes in Graz „Die neurophysiologischen Grundlagen jeder Ästhetik“. 1993 fand in Bonn das von Olaf Breidbach, Bazon Brock und Detlef B. Linko organisierte Symposium „Neurionale Ästhetik – Hirnbilder und Menschenbilder“ statt. „Mit der ‚Neuronalen Ästhetik‘ soll der Versuch gekennzeichnet werden, die begriffliche Fassung neuronaler Prozesse selber als ästhetische Operation zu entfalten und über korrespondierende Analogien zwischen ‚natürlichen‘, alltäglichen, jedermann von Natur aus beherrschbaren Aktivierungen seines Weltbildapparates und den weltbildkonstituierenden Operationen der Wissenschaftler und Künstler, die ja auch nur über
denselben Apparat wie jedermann verfügen, erweiterte und modifizierte Konfrontationen des Geistes und des Prinzips Leben mit ihren Verkörperungsformen zu schaffen."

— BAZON BROCK

Noologie: A Comparison with Peter Sloterdijk's Morphology

In his work Sphären I, II, and III (1998-2004), Peter Sloterdijk had developed an approach to morphology that is in some ways similar to the Cultural Morphology of the present project. I had developed my own version of morphology from about 1990 onwards in the project "Noologie" and related works. I didn't know of Sloterdijk's Sphären project until about 2010. So we were at the same time developing some similar ideas without knowing of each other's work. In my dissertation (1999) I gave a general outline of the morphological method that I was developing.

Design Und Zeit: Kultur Im Spannungsfeld Von Entropie, Transmission, Und Gestaltung

The Dissertation project was intended from the beginning as a dual-form project: 1) In form of a printable book, and 2) in form of a www-Hypertext with many links into the www. It also has an automatically generated Hypertext-index to give a complete reference of all basic points with the direct Hypertext jumps to the appropriate text passages. The inspiration for this form was the Idea of the "Pyramidal Book" by Robert Darnton. The morphology was developed mainly along the lines of Goethe's work, then Spengler, Nietzsche, Ruth Benedict, and with the German Gestalt Psychology and Ethnologie developments between Adolf Bastian and Hertha v. Dechend. There is also some additional material from Gregory Bateson, Whitehead and Buddhist Tradition.

The similarities between "Design Und Zeit" and "Sphären" can be summed up with the references to Goethe and Spengler, whom Sloterdijk mentions in a few passages in "Blasen", like p. 77 - 79. There he comments shortly on Spengler: P. 78: "Der erste Versuch, nach dem Scheitern von Oswald Spenglers sogenannter Morphologie... wieder einem Formbegriff eine höchstrangige Stellung in einer... kulturtheoretischen Untersuchung zuzuweisen". But many of the concepts presented in the "Sphären" can be originally traced back to Spengler, and only re-worded slightly: P. 58: "Ethnotechniken, die Generationen überspannen", p. 59: "Ethnopoietische Prozesse", p. 60: "Die Semiosphärische Glocke". These concepts were also developed in "Design Und Zeit". Especially the issue of Trans-Generational Continuity, or Innovation vs. Preservation vs. Stability and Stasis of a culture. It may also be noted that Sloterdijk's work was criticised for leaning heavily on Spengler's ideas, meaning some kind of pseudo-fascist ideology. Morphology is today not deemed worthy as a scholarly or akademik subject. Also it should be noted that Sloterdijk writes in a style of novel [aka. Bildungsroman], with many quite extravagant metaphors [eine sehr blumige Sprache], and very little bibliographical information. An index is completely missing. These are reasons for a scholarly critique. But it has to be noted that the lack of an index is mostly for economic reasons of the publishing houses. An index just costs too much for a book that is aimed at a non-scholarly readership who would never consult an index at all. As a positive aspect of Sloterdijk's work it is to be noted that his rich illustrations included in his books clarify many of the ideas presented there. As an Art historian he makes good use of the principle that a picture is (sometimes) better than 1000 words.

Especially disconcerting is his habit of name-dropping of the most diverse philosophical and spiritual traditions. In "Eurotao", he mentions on p. 91 all the traditions of Asia, as if he were an accomplished expert of those. This kind of cursory short shrift treatment smacks of a "Überflieger" in the German expression. I seriously doubt that he has understood these traditions down to the necessary depth and backgrounds. Especially revealing is his remark on p. 83 of Eurotao that Japan had committed a "formvollendete Selbstliquidierung ... und ein Seppuku zugunsten von Industrie und Geschichte", and further: "Wahrscheinlich wird das alte Asien im Zuge einer epochalen Selbstkolonialisierung eines Tages vom Erdboden verschwunden sein". Since Eurotao appeared first in 1989, Sloterdijk can be excused that he could not foresee the almost irresistible rise of Asian mentality in the form of the awakening giant China to global power in the last 30 years. The ancient (Confucian) Asian mentalities are just doing their own Meta-Morphosis in ways that the Western
intelligenza could not have dreamed of. And the Shinto traditions in Japan are also quite alive and kicking. This is mainly the work that I do in Part I of the Project "Hagia Sophia", to show that Thomas Immoos and his successors had a grasp of an essence that the Western intelligenza just was not able to understand because of their logocentrism. And this logocentrism is based on a quite distorted understanding of the "Logos", as was discussed by Heidegger in WHD. The "Logos" of Heraklitos is quite different from the "Ratio" of the Latin Roman tradition of philosophy.

As I am expounding in Part I of Project "Hagia Sophia", the kineticism or Movement Gestalt (Kata) of the Japanese Shinto movement rituals is to be understood in quite a different way. And I make it very clear there that there is a "world beyond words" in the Asiatic traditions. And there it is understood very well, that words are more or less vexing verbal shells, that change in a Protean manner, or as I express it in Morphological terms: Words and Concepts are doing a Meta-Morphosis all the time. There is no solid ground on which verbal concepts can rest. One reason for this different understanding is the Chinese writing which neatly separates the verbal concept and the visual "idea" or the mental image behind the graphical symbol. But this is not an idea in the Platonic sense. Ideas don't have an existence in some metaphysical heaven, but they are entities of the Semiosphere, as I have expounded in "Design und Zeit". They "live" in the semantic sphere of a "culture". This is what Sloterdijk calls "Die Semiosphärische Glocke" above. Unfortunately I have not found any other reference of this concept in his works, for lack of an index. The Semiosphere is a concept developed by Lotman and other Semioticians, and they all refer to the works of Vernadsky. We should also remember that Platon in his Phaidros used a subtle distinction between grammata for written words and stoichaea for spoken (only) words. This was rarely noticed by the translators of this work. And this distinction is well understood not only in Asia but also in all world-wide intellectual traditions that are not so completely based on verbal written language. And Western Philosophy is based on a specific kind of logocentrism, meaning that everything can adequately be expressed and described in words. [In anthropology this is considered a parochial opinion/ position/ myopia.] And this idea is a fallacy. Therefore an adequate criticism of Sloterdijk's work should not be made on the grounds of Western Philosophy. And so my criticism of Sloterdijk is extra-philosophical.

So the Morphology of Project "Noologie" and "Hagia Sophia" is also quite different from that of Sloterdijk. The crucial deviation from "Sphären" is the interpretation of the morphological aspects of Foam (Schäume) in Vol III of the "Sphären" (p. 13-71). These are taken up in the project Noologie Vol III especially in:

http://www.noologie.de/diadenk.htm

Here the morphological issue of Foam is developed along a completely different avenue of thought: The Mathematical Fractal. The Self-Similarity of Foam and Fractals is another morphological method which is further developed in Noologie Vol III.

http://www.noologie.de/diadenk.htm#_Toc535328675
http://www.noologie.de/diadenk.htm#_Toc513275087
http://www.noologie.de/diadenk.htm#_Toc513275094
http://www.noologie.de/diadenk.htm#_Toc513275100
http://www.noologie.de/morph.htm

The project "Hagia Sophia" seeks to lay an entirely new groundwork for the concepts of "Form" and "Inhalt" that orients itself heavily on the work of Nagarjuna, and the ancient Greek understanding of "Morphe", "Meta-Morphology", "Meta-Noia/Noiaesis", "Tropæ", "Strophae", "Kata-Strophae" and "Polytropos", "Kenoma" and "Pleroma". The words "Polytropos" and "Polymechanos" are also discussed by Sloterdijk who gives it some interesting treatment in "20JH". This is his discussion of Odysseus as the prototypical "Polytropos" and "Polymechanos" in pages 253-290. It is needless to say that my treatment in Meta-Morphology goes into a totally different direction than Sloterdijk. The ability to lie (Lügen = Herein-Legen) is one of the most important foundations of intelligence [or vice versa], or inter-ligence, which can also mean Legere-Between-The-Lines. And Legere and Legein are completely different "ideas" even if they sound so much alike. The Logos has nothing at all to do with the most common meaning of legere. See the famous dictum of Augustinus: Tolle lege! It means: Take it and read. He had never said anything about "understanding it". This is not what he had on his mind.

http://latindictionary.wikidot.com/verb:legere
https://en.wiktionary.org/wiki/legere
Some Aspects of the Controversy around Sloterdijk's Work
https://www.sueddeutsche.de/kultur/jubilaeum-wechselseitiger-schuettelverkehr-1.3559872
https://www.freitag.de/autoren/der-freitag/was-ist-ein-philosophieboom
https://en.wikipedia.org/wiki/Peter_Sloterdijk
https://de.wikipedia.org/wiki/Kritik_der_zynischen_Vernunft

Die Kritik der zynischen Vernunft ist ein 1983 erschienenes zweibändiges Werk


AG: Da der Spiegel wie immer schreibt, wenn er einige Schreiberlinge nicht mag, so mag diese Spiegel-Schreiberie als Beispiel dafür gelten, was man bekommt, wenn man das Spiegel-Ei ohne Ei serviert bekommt: Bunt wie ein Paradiesvogel entfaltet die Phantasie des Buches ihre Flügel, die sie in pulsierender Bewegung über einen weiten Horizont von Themen, Assoziationen und Symbolen tragen: zwei Begriffe, mobil genug für solche Dynamik - "Zynismus" und "Kynismus". "Zynismus ist das aufgeklärte falsche Bewußtsein - das unglückliche Bewußtsein in modernisierter Form", ein Bewußtsein, das seine Fähigkeiten mit dem Verlust seiner Moral bezahlt, seine herrische Verfügungsmacht über die Außenwelt mit dem Orientierungsverlust seiner Innenwelt. ....

Mit der Wunderkerze einer funkelnden, manchmal begeisternden Sprache leuchtet Sloterdijk diesen riesenhaften gedanken- und geschichtlichen Horizont aus. Aus dem Zwielschicht des diffusen Zynismus tauchen Gesichter auf. Philosophen und Henker, Dichter und Feldherren, auch Masken und Lemuren, Lügen und Kunstwerke. Im Sturmschritt seiner Diktion durchläuft Sloterdijk das Szenarium, erhellend, was seine Phantasie zu fassen bekommt: die Aufklärung. ....


The Shape of Things By Sam Han on the Spähären by Sloterdijk
http://reviewsinculture.com/2013/06/15/the-shape-of-things/
Issue 4.1 | June 15, 2013

For anyone even remotely interested in philosophy, when a figure sets out to “correct” Heidegger, you want to pay attention. This is not necessarily out of admiration for the author of Being and Time, or his ideas, but rather out of a genuine curiosity made up of equal parts amazement and horror. The interest would be compulsory, akin to intellectual rubbernecking, for it is more than likely that he or she, the subject of such an utterance, will, like Heidegger, be vulnerable to intense scrutiny and interpretation. Therefore, when MIT Press describes the much-anticipated Spheres trilogy by Peter Sloterdijk as “the late-twentieth-century bookend to Heidegger’s Being and Time,” there is reasonable expectation for it to be disastrous.

Ever since the English translation of his The Critique of Cynical Reason in 1988, Sloterdijk has been known in English-speaking intellectual circles as somewhat of a mercurial figure. Not much, still, is known about
him. From where, that is, what intellectual milieu or tradition, did he emerge? Is he a Frankfurt guy? Is he a Luhmannite? Is he Heideggerian? The rather out-of-nowhere character of Sloterdijk’s work, as well as the inconsistent reception of his work outside a handful of watchers of developments in continental philosophy and social theory, placed Sloterdijk in the category of “heard of him” (otherwise known as “oh right, he wrote that one thing”) in North American cultural theory.

But Sloterdijk’s trajectory differed tremendously in his native Germany. When copies of Cynical Reason started leaving the shelves at a rapid pace upon its release, the then-journalist was boosted into the highbrow German intellectual scene traditionally filled with academics. Today, we can count Sloterdijk among the country’s public intellectuals, a group that also includes luminaries like Jürgen Habermas and Axel Honneth (more on these two later). Sloterdijk is also host to a show called “Das Philosophische Quartett” (The Philosophical Quartet), which airs on ZDF, the German equivalent to PBS in the United States or NHK in Japan. It features Sloterdijk alongside guests of various intellectual pedigrees, from academics to journalists.

More recently, Sloterdijk has made himself known among the wider American reading public for a controversy involving welfare state politics, class, ressentiment and Axel Honneth. As a blog post on the Global Post summarizes:

According to an article published this past summer in one of Germany's most widely read newspapers, the country's welfare state is a “fiscal kleptocracy” that has transformed the country into a “swamp of resentment” and degraded its citizens into “mystified subjects of tax law.” The text, by philosopher Peter Sloterdijk, goes on in that vein for some 3,000 words […] Among the country's intellectual class, the article has served as kindling for a fiercely fought and wide-ranging conversation about the national economy that, six months on, still shows little sign of abating. (Abadi)

The article, entitled “Die Revolution der gebenden Hand” (“The Revolution of the Grasping Hand”), ...

[AG: I must correct this right here and now. It is exactly the opposite mis-translation. "Die gebende Hand" is the giving hand. The hand of the tax collector is the Grasping Hand. And as an Anthropologist, I must also correct those poor Intelligenzia-Intellectuals that the system of honor taxes was very widespread and very successful in almost all "tribal oriented" paleo-historic societies. It was written about in so many stories like Marcel Mauss, and the system of Potlatch, and the "feast of the pigs". Only the poor US- & European Intelligenzia-Intellectuals didn't know anything about it.

...must be read as a polemic. While it includes some semblance of genealogical (in the Foucauldian sense) analysis of the modern democratic welfare state, its primary purpose is to offend. He begins with a meditation on the birth of the democratic state as the compromise between classical liberalism and anarchism, each of which was amenable to the declining significance of the state. For liberalism, the state needed to be minimal and imperceptible to its subjects, the citizens. For anarchism, the state needed to be destroyed. Hence, the “modern democratic state gradually transformed into the debtor state, within the space of a century metastasizing into a colossal monster—one that breathes and spits out money” (Sloterdijk, “The Grasping Hand”). For a Europe that is currently under much economic turmoil, and with a Germany that is currently embroiled in a national debate, hinging in large part on a parochial stance toward Southern Europe as fiscally irresponsible debtors, about whether to “bail out” Greece and Spain, this article, for many of its critics, amounted basically to “piling on.” Further, according to its critics, it preyed on extant, albeit latent, nationalist sentiment, which culminated in the infamous book by Thilo Sarrazin, which all but placed the entirety of Germany's economic woes on its immigrants.

This was the context for the retort by Honneth, one of the last remaining flag bearers of the Frankfurt School. There he accused Sloterdijk of, among many things, being an ideological mouthpiece for advanced capitalism, “a mystical or speculative [interpreter] of history and the world,” and, rather strangely, a reader of Michel Foucault.[1] The gist of Honneth's critique, which I cannot fully assess in this space, is that Sloterdijk has taken ressentiment as “first psychology” of the lower classes and has attempted to pull the rug from under the very foundations of European liberal democracy—the welfare state—by criticizing it. I bring up Honneth’s public spat with Sloterdijk in order to portrays a picture of the latter that presents not only his prominence in
the German intellectual scene but also his embattled public image. While Sloterdijk may only recently be gaining mass recognition in North America, he has, in Europe, at least, been a visible presence for the past two decades or so.

For Sloterdijk, the problematic of inhabitation is that which courses through the veins of Western metaphysics and philosophy. The “old cosmology of ancient Europe,” as he calls it, “that rested on equating the house and home with the world,” can be seen in even the disparate philosophies of Hegel and Heidegger. Humans in this view were “inhabitants in a crowded building called cosmos”(Sloterdijk, “Spheres Theory”). As it was for his most obvious predecessor, Gaston Bachelard, the motif of the house—signifying order, unity and certainty—is one that unduly holds too much purchase in the West. For Sloterdijk, the Enlightenment should have dispelled the need for a “universal house in order to find the world a place worthy of inhabiting” (Ibid.). Yet, it remains, thanks in part to philosophers such as Heidegger, whose self-proclaimed task to “end metaphysics” as such did not do away with the, if we can call it something, the “metaphysics of the universal house.” Sloterdijk’s project, therefore, in his three-volume study called Spheres, is to forge a path beyond Heidegger, by providing a general theory of “associations.”

For Heidegger, the overarching question of metaphysics was temporal—with the keywords “being” and “becoming.” For Sloterdijk, it is spatial; the keyword is “world.” While it is the case that Sloterdijk views Heidegger to have been wrong all along, there is something about the current technological, socio-political moment that has occasioned a particular response. Sloterdijk writes:

It’s the final stage of a process that began in the epoch of Greek philosophical cosmology, and whose present vectors are rapid transportation as well as ultra-high-speed telecommunication. At the same time, it's the product of a radical disappointment, whereby human beings had to abandon the privilege of inhabiting a real cosmos—which is to say, a closed and comforting world. The cosmos, such as the Greeks conceived it, was the totality of being imagined under the form of a great, perfectly symmetrical bubble. Aristotle and his followers were responsible for this idea of a cosmos composed of concentric, celestial spheres of increasing diameters, the majority of which consisted of a hypothetical material they called ether. For us, this model of the world is obviously no longer operational. (Sloterdijk, “Foreword to the Theory of Spheres” 223)

In response to this “inoperability,”[2] Sloterdijk offers a “spherology,” beginning from the micro, which is the subject of volume I of Spheres entitled Bubbles, all the way to the macro, the subject of volume III, entitled Foams. Sphere, for Sloterdijk, does not assume a totality or finality as the phenomenologically inflected “lifeworld” or “world” entails. As he puts it rather paradoxically, “the primordial existential sphere is created every time a moment of inter-psychic space happens” (Sloterdijk, “Foreword to the Theory of Spheres” 223–224). Against the weight of “existence,” Sloterdijk puts forth a succession of events, of happenings, wherein meaningful and significant connections are made but do not suffocate. Hence, the microspherology he presents in Bubbles, the volume under review, is, at root, a theory of “atmosphere” or as he likes to say, of “air.” He chooses these ethereal metaphors as he believes that spheres, the closest Heideggerian cognate being Stimmung (more on this later), “never speak but…brings everything together and makes everything possible…a treasure that that allowed human beings to realize the fact that they’re always already immersed in something almost imperceptible and yet very real, and that this space of immersion dominates the changing states of the soul down to its most intimate modifications” (Sloterdijk, “Foreword to the Theory of Spheres” 225).

The development of this “spatial vocabulary” is necessary, therefore, because the concept of “world” is simply too bulky to do anything analytically. “Sphere” works better for several reasons. For one, it is more in tune with the development of modernity, which is characterized by “the increasing removal of safety structures from the traditional theological and cosmological narratives” (Sloterdijk, Bubbles 25) that used to provide human subjectivity with a degree of ontological security by providing human beings a place in the world, which was fixed, identifiable and orientating. Yet, these “safety structures” in the form of “worlds,” according to Sloterdijk, remained. While the emergence of the Figure of Man, allowed for humans to become the subject and object of knowledge, the “empirico-transcendental” as Foucault so rightly put it, it did not mean the complete “end of metaphysics.” It just diverted the sublimated energy. “People,” Sloterdijk precisely notes, “no longer wanted to receive their inspired ideas from embarrassing heavens”(Sloterdijk, Bubbles 28). Instead of God, these ideas came from within, so to speak, albeit mediated via technology, which reflected the “distance between what God was capable of in illo tempore and what humans will, in time, themselves be
capable of” (37). Hence, supposedly secular models of subjectivity that emerged in the wake of the scientific revolutions of Galileo, Copernicus and later Newton, nonetheless remained closely tied to the image of man as God simply shifted the flow of power from one end to another. It did not reconstitute the very elements of the prior cosmological system. The shape of the world, even after the emergence of the Figure of Man, did not much change.

But it was not just the shape of the system that did not budge, but rather the way things in it related to one another. While Sloterdijk takes much care to provide various illustrations having to do with the contours of what he is describing, he is in fact attempting to describe relationality. One could even go so far as to say that for him the way in which certain elements in a system relate—let us call this the “relational quantum”—gives the system itself shape. Thus to call something “foam,” “bubble,” or “sphere” is really an attempt by Sloterdijk to theorize a “connecting force.” Spheres, then, are “the original product of human coexistence.” In other words, spheres form out of the relations of certain existing ontological objects, or as Sloterdijk tends to call them, “nobjects.” Spheres therefore are unlike environments. “Environment,” while certainly a milieu for the facilitation of elements in action therein, is nevertheless a top-down way of thinking about social forms. Environments are determinants and causes, though perhaps not linear or direct ones. They are, still, somehow initiators. Spheres are more “atmospheric-symbolic places.” They are like “air” or even “air-conditioning systems in whose construction and calibration, for those living in real coexistence . . . is out of the question not to participate” (46). “Living in spheres” is indeed a condition, a structure but one which is dynamic and ethereal. It “means inhabiting a shared subtlety” (46. Emphasis added).

Bubbles, the first volume of the project, is a “theory of the shared inside” (542). The bubble is the first step, the most elemental, the smallest unit of sphere. The question, of course, is what kind of bubble are we talking about here? In describing it, Sloterdijk references a variety of illustrations, including vaginas, wombs and soap. Stranger still is Sloterdijk’s embrace of the term “soul,” not the Cartesian variety but the Platonic one. Spheres are a form of “soul expansion” that would have previously been associated with “spirit,” although Sloterdijk claims that what was “meant was always inspired spatial communities” (19). But today, there is no thinking about spatial communities without thinking of networks, which has triggered “a general space crisis,” or what Paul Virilio calls “the annihilation of space.” This complicates, in particular, age-old ideas about subjectivity.

According to Sloterdijk, the annihilation of space finally reveals the myth of individual autonomy, which he describes as the “basic neurosis of Western culture,” that is, “to dream of a subject that watches, names and owns everything, without letting anything contain, appoint or own it, not even if the discreetest God offered himself as an observer, container and client” (86). The Enlightenment emphasized and augmented loneliness as the default setting of the human being. This is the case not only with the ancients but also with Hegel and Heidegger in particular. To the contrary, for Sloterdijk, there is, what we can call, a primary “intimacy” between beings. Even phenomenological conceptions of “intersubjectivity” took as its quantum the individual, perceiving subject—a point made loud and clear most acutely by post-structuralist critics. But more to the point, the Modern Age too easily discarded the primacy of, what Sloterdijk describes as a magolological and erotological tendency. He writes:

Among humans, fascination is the rule and disenchantment the exception. As desiring and imitating begins, humans constantly experience that they not only hold a lonely potential for desiring the other within themselves, but also that they manage, in an opaque and non-trivial manner, to infect the objects of their desire with their own longing for them; at the same time, individuals imitate the other’s longing for a third element as if under some infectious compulsion…Where philosophy of the early Modern Age mentions such effects of resonance and infection, it spontaneously draws on the vocabulary of magological traditions. As easy as antiquity, it was reflection on affective causalities of the magical type that initiated the clarification of the interpersonal or inter demonic concert, which, from Plato’s time on, was interpreted as a work of eros. (208)

Tracing this genealogy magolological of relation from the Middle Ages and the Early Modern Age allows for Sloterdijk to contrast the spheres’ model of relationality to that of subjectivity, which he, after Lacan, refers to as the psychoanalytic model. In large part, he does this to tie it to Judeo-Christian understandings of The Law, which “does not encourage merging, but constantly makes the case for constructive separations; its focus is not intimate fusion, but rather the discretion of the subject in relation to the other” (217). The Law model of
subjectivity, we can argue, is the basis for so many of the recent theories of the subject that are no doubt derivative of Lacan and Althusser. In the Althusserian version, which I think Sloterdijk has in mind although he more explicitly takes aim at Lacan, the subject is the subject of ideology, constituted in and through the ISAs (Ideological State Apparatuses) that have surrounded the subject’s entire identity through various layers of institutional identity formation and recognition. Thus, when the police officer hails you, the subject was always already interpellated, as evidenced by the subject’s assumption that it is he that office is addressing. Put in juxtaposition to Sloterdijk, this model seems to be top-down in that there is no theory of “bindability” beyond the superstructural notion of “ideology.” This amounts to sacrificing the “relationships between things” for “being-in-itself” (220). Put differently, Sloterdijk identifies in this model of subjectivity an overemphasis on the ontic.

The question of the ontic most certainly leads to questions around notions of thinghood and objects. Especially nowadays, there has been a flurry of philosophical interest in ideas of object-oriented ontology. “Things” or objects are a subject of serious theoretical inquiry. Sloterdijk, hardly a source for many of the thinkers associated with OOO and speculative realism, nevertheless shares these analytic concerns.[3] Subjectivity is but one rather convenient level for him to begin. It is a point of entry, not his primary intellectual concern. Nevertheless, the importance of relationality brings Sloterdijk to theorize objects, those very entities whose relations he expresses such profound interest in. In large part, he use the term “nobject” from Thomas Macho, a German cultural theorist whose work has not quite reached the English-speaking theory world quite yet.[4] In Sloterdijk’s rendering, nobjects are “things, media or persons that fulfill the function of the living genius or intimate augmenter for subjects” (467). They are “objects that…are not objects because they have no subject-like counterpart” (294). His examples of “nobjects” include air as well as placental blood. Air, he writes, “possesses unmistakable nobject properties as it affords the incipient subject a first chance at self-activity in respiratory autonomy, but without ever appearing as a thing with which to have a relationship” (295). Placental blood is one of the many images of the gynecological register that Sloterdijk draws from throughout the work. The womb is of particular importance to Sloterdijk as it functions to counter the assumed importance of “primary narcissism” (320). Instead, he says that there is a primary duality, which is born out not only in art (a privileged area of evidence for Sloterdijk) but also in mythology.

This leads him to venture into some rather odd places. For instance, in a chapter on what he calls “the primal companion,” he spends a lot of space on what he calls the “sanitization of afterbirth.” There, he argues that the importance of afterbirth which subsequently suffered from a “bourgeois-individualist” attempt to retroactively isolate the subject. He even goes so far as to offer a periodization. He notes that “modern individualism could only enter its intense phase in the second half of the eighteenth century, when the general clinical and cultural excommunion of the placenta began” (384). Thus the “lonely modern subject” is a “fission product from the informal separation of birth and afterbirth. Its positively willful being is tainted by a fault to which it will never admit: that it rests on the elimination of its most intimate pre-object” (386). Hence, the Modern Age can be thought of as defined by “placental nihilism.”

Undoubtedly this is stylization taken to the nth degree. But there is something to Sloterdijk’s overuse of the metaphor. He views the maternal relationship as the proto-type for his theory of relationality in spheres—“proto-subjectivity.” “[I]ntimacy is a transmission relationship . . . not taken from the symmetrical alliance between twins or like-minded parties, where each mirrors the other, but from the irresolvable asymmetrical communion between the maternal voice and the fetal ear” (511). While one could not blame any reader for being fed up with Sloterdijk’s “illustrative” method, there is, in my mind at least, a method, that is, a clear intention on the part of Sloterdijk. The imagistic aspect of his illustrative method is born out in not only the dearth of examples that he uses, but in the countless photographs and illustrations that Sloterdijk includes in Bubbles.

But returning to the issue of spheres and proto-subjectivity, Sloterdijk does not necessarily spend all of his efforts in a nostalgic explication for a time where ontological thinking was not devoid of magological or erotological elements. Instead, he suggests that “modern mass culture” already exhibits this sort of reality of spheres as it “offers new, direct ways of fulfilling the desire for homeostatic communion.” He goes on to argue that “pop music and its derivatives” allow for the “possibility of diving into a body of rhythmic noise in which critical ego functions become temporarily dispensable” (527). These sorts of communiions share in common with religious communiions the opportunity for “absorption,” as he calls it. The most telling of examples he provides is that of the Love Parade, held in Berlin for a long time but later moved to other cities in Germany.
Up until its recent cancellation, the Love Parade was characterized by its particularly EDM (electronic dance music)-heavy focus, exhibitionist ethos, and the sheer number of attendees with figures (though disputed) reported to be in the hundreds of thousands. Of this festival, Sloterdijk writes:

…[T]hey could easily be called “Truth Parades,” as their aim is to absorb large numbers of people, all of whom value the attributes of their individuality, into happy, symbiotic reversible and thus “true” sonospheres. These communions with the audio gods or the rhythmic juggernauts are based on the same truth model as post-Freudian psychoanalysis—with the difference that the latter recommends that its clients develop a strict individual rhetoric of mourning for the lost primal object, while integristic music therapy in the streets relies on drug-assisted group euphorias that may advance flirtation with absorption into a spheric primal body in the short term, but yield little profit for the participants’ media competence in the sobering periods that follow (527–528).

It is in this unlikely example of the Love Parade, where I believe the key to Sloterdijk’s “theory of the shared inside” lies. By viewing this music festival as “communion,” and thus employing a religious register, Sloterdijk arguably betrays, what I view to be, his true intellectual concerns—theology. In showing that “life is always a life-in-the-midst-of-lives, Being-in, then, should be conceived as the togetherness of something with something in something” (542), Sloterdijk ends up using the theological concept of “perichoresis,” which the Protestant German theologian Jürgen Moltmann in his God in Creation describes as “the principle of mutual interpenetration.”

In Moltmann's theology, all relationships “are analogous to God.” This is characterized by a “primal, reciprocal indwelling and mutual interpenetration,” which in theological terms is called perichoresis: “God in the world and the world in God; heaven and earth in the kingdom of God, pervaded by his glory.” This mutual interpenetration disabuses the notion of a solitary life. Against a panpsychic Leibnizian monadology, which sees ontologically individual beings that coordinate with another through a divine pre-established harmony, Moltmann describes the principle of mutual interpenetration as all living things “[living] in another and with one another, from one another and for one another”(Moltmann 17). This is analogous to Sloterdijk's “onto-theology.”

Yet, no matter how novel Sloterdijk's overall argument, and mode of argument, in the end, it is rather familiar because it is, even according to him, a corrective. Bubbles, and the Spheres trilogy generally, is an attempt to demystify, a tact nearly identical to the theoretical methods of Rudolf Bultmann but also—surprisingly—the Frankfurt school, especially Adorno and Horkheimer. To demythologize is to suggest that if we simply understood the proper genealogy of a particular concept at the root of contemporary metaphysics, it would make for a better world. For Sloterdijk, it is “sphere,” whereas for the Frankfurt School, it was “mass culture.” For all of their public back-and-forths regarding the German welfare state, it seems that Sloterdijk and Honneth, the current director of the Frankfurt Institute for Social Research, have more in common than previously imagined.

Works Cited

One cannot but help to think of the continual resonance between Sloterdijk’s project and the recent work of Jean-Luc Nancy. This is the case not only with the recent work by Nancy on religious themes and globalization but also his earlier work on “communality” and “singular plurality.”


There seems to be almost nothing of Macho’s translated into English. He does, however, have a web site. http://www.culture.hu-berlin.de/tm/

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Rezensionen peter-sloterdijk-du-musst-dein-leben-aendern-der-dreizehnkampfrekordhalter


Das klingt kompliziert, aber an dieser letzten Formulierung kann man nicht vorbei, weil sie umreißt, was das Thema von Sloterdijks heute erscheinendem neuen Buch ist. Es heißt „Du musst dein Leben ändern“, nach dem Schluss von Rilkes Sonett „Archaisher Thors Vorloppos“, und als Adressaten des Titels darf man gewiss auch die eigenen Kollegen identifizieren, denn der in Karlsruhe lehrende Philosoph hat sich nicht weniger vorgenommen als die Umstürzung aller Bewertungen. Was die westliche Zivilisation an metaphysischen Maßstäben vor allem in der Neuzeit herausgebildet haben, ist hinfällig, weil die wichtigste Bezugsgröße auf einem Irrtum beruhte: der Religion. Die gibt es gar nicht, stellt Sloterdijk mit einem verbalen Donnerschlag
bereits in der Einleitung fest, wir haben sie uns selbst ausgedacht: als Missverständnis einer anthropologischen Konstante, die Sloterdijk unter dem Begriff der „Übung“ fasst.

Üben als zentrale Praktik

Ihr Prinzip beruht auf der „immunitären Verfassung des Menschenwesens“, also dessen Bestreben, sich materiell, symbolisch und rituell zu perfektionieren, um damit individuelle Schutzgewebe zu schaffen. In der Immunisierung sieht Sloterdijk den Beginn aller Systembildung: der biologischen, die sich in Lebewesen artikuliert, und der kulturellen, die ihren Ausdruck in Praktiken findet. Eine dieser Praktiken – und zwar die zentrale – ist die Übung. Und damit werden Wettkämpfe vorbereitet – im agonalen Sinne der Antike, also nicht im neuzeitlichen Verständnis der Konkurrenz.


Akrobatik, Ästhetik, Athletik


**Critique by Axel Honneth**

https://www.zeit.de/2009/40/Sloterdijk-Blasen/komplettansicht

AG: This is something to really "Auskotzen" if you know what the Frankfurter Schule is, and why they have such a liking for Peter Sloterdijk and vice versa. To understand this better, one should also know the nice professor Habermas, who is probably behind the scenes of this whole theater. Habermas and Sloterdijk really loved to hate each other. As much as an arch-enemy can love his arch-enemy. Because without the enemy one would have nothing serious to think of. As I have said this in my chapter on the friendly enemy, and why the enemy is good for the intelligence. When I read the article by Axel Honneth, I am reminded of the general law of German philosophy, that a serious scholar should be careful never to write a sentence shorter than 4 to 7 lines of text. This is just to ensure that every reader recognizes the superior erudition and intelligence of the writer. This tradition was especially pioneered by Kant and Hegel, and has since then been the Gold Standard of German philosophical writing. Any philosopher who writes sentences shorter than that is viewed with the suspicion that he may be a writer of popular entertainment.


**Nietzsche, Zarathustra: ihr Einsamen von heute, ihr Ausscheidenden**

I think that this passage is very good for an introduction about "Auskotzen". Because "Ausscheidenden" has a double meaning in German. It also means "to excrete", as above so below, we could say.


Der Mensch der Erkenntnis muss nicht nur seine Feinde lieben, sondern auch seine Freunde hassen können.

Man vergilt einem Lehrer schlecht, wenn man immer nur der Schüler bleibt.

...
Ihr sagt, ihr glaubt an Zarathustra? Aber was liegt an Zarathustra!
Ihr seid meine Gläubigen: aber was liegt an allen Gläubigen!
Ihr hattet euch noch nicht gesucht: da fandet ihr mich. So thun alle
Gläubigen; darum ist es so wenig mit allem Glauben.
Nun heisst e ich euch, mich verlieren und euch finden; und erst, wenn
ihr mich Alle verleugnet habt, will ich euch wiederkehren.

Professor für Philosophie Axel Honneth
https://www.zeit.de/2009/40/Sloterdijk-Blasen/komplettansicht

Er ist Professor für Philosophie an der Goethe-Universität Frankfurt am Main und seit 2001 Direktor des
dortigen Instituts für Sozialforschung, der in den zwanziger Jahren gegründeten »Geburtsstätte« der Kritischen
Theorie. Einer breiteren Öffentlichkeit bekannt wurde Honneth mit seinem Buch »Kampf um Anerkennung«
(Suhrkamp Verlag), das an den jungen Hegel und den amerikanischen Pragmatisten George Herbert Mead
anknüpf t. Honneths Philosophie zielt auf eine Kritik an den sozialen Verwerfungen moderner Gesellschaften;
ihre Themen sind »Entfremdung«, »Verdinglichung« und »Anerkennungsvergessenheit«. Axel Honneth
veröffentlichte zuletzt (zusammen mit Beate Rössler) die Studie »Von Person zu Person. Zur Moralität
personlicher Beziehungen«. Zu seinem 60. Geburtstag (ZEIT Nr. 30/09) erschien – ebenfalls bei Suhrkamp –
eine 700 Seiten starke Festschrift mit Beiträgen unter anderem von Nancy Fraser, Eva Illouz, Luc Boltanski,
Charles Taylor und Michael Walzer.

Hier ist das Zitat:
Gewiss, die dreibändigen Sphären waren des Umfangs zu viel, um sie sich Seite für Seite auch nur zur Ansicht
zu bringen; hier reichte die Kenntnisnahme der schwermüti gen These, dass wir alle schon im intrauterinen
Zustand ein Gefühl der räumlichen Geborgenheit entwickeln, für welche wir, einmal zur Welt gebracht, dann
keinen hinreichenden Ersatz mehr finden. Dieser poetische Philosoph war unzufrieden mit den Umständen in
anderer Weise, als es die schnöde Gesellschaftskritik der Alten gewesen war; der kritische Ein wand galt nicht
der institutionellen Einrichtung unseres Gemeinwesens, nicht dem Mangel an sozialer Gerechtigkeit, sondern
der Dürftigkeit einer ganzen Kultur, die den harten Gegebenheiten unseres Daseins nicht ins Angesicht zu
schauen wagte. Der methodische Zugang, den sich Sloterdijk zu diesen Tatsachen des sozialen Lebens
verschaffte, war allerdings alles andere als von philosophischer Raffinesse; so, als habe es Foucaults Ein wand
gegen den anthropologischen Essenzialismus nie gegeben, so, als seien alle Warnungen vor der Behauptung
kultureller Universalien und menschlicher Invarianten in den Wind zu schlagen, ging Sloterdijk schlicht davon
aus, dass es bei genauerem Hinsehen eine Reihe von unvermeidlichen Triebkräften im zivilisatorischen
geschehen zu entdecken gäbe. Auf seinem Weg ins Verhältnis schüchtern der Autor alles
erschossen zu haben, was er ursprünglich, etwa in einem frühen, glänzenden Aufsatz zu Foucault, selbst einmal
geschrieben und gedacht hatte, sodass er nun frei war, eine Art von intuitiver Wesensschau zu betreiben. Um
die Schriften des Autors hatte sich in nur wenigen Jahren ein Kokon aus Verehrung, Faszination und
schelmischer Sympathie gelegt, an dem vom postmodernen Rundfunkredakteur bis zum alternden Goethe-
Instituts-Direktor viele munter webten: Endlich war da jemand der argumentativ überpeniblen, in sich selbst
kreisenden Sozialkritik entgegengetreten, hatte deren Fixierung auf die nur mediokren Werte der Gleichheit
oder Gerechtigkeit bloßgestellt und uns einen ersten Eindruck von den viel tiefer liegenden, wahrhaften Kräften
geschichtlicher Zusammenstöße vermittelt.

Allerdings waren auch nach dieser ersten Staffel von Schriften die erlösenden Worte, auf die das zum Meister
hochblickende Milieu so begierig wartete, noch nicht gefallen. Sloterdijk hatte in seiner Wesensschau zwar
inzwischen die unterschiedlichsten Sachverhalte zutage gefördert, war unerschrocken dem heimlichen Sinn all
unseres gentechnischen Experimentierens auf die Schliche gekommen und der ehemaligen Triebökonomie des
Politischen nachgegangen, aber der unter den Nächel brennenden Frage nach dem sozialen Antagonismus
unserer Tage hatte er seine Aufmerksamkeit noch nicht gewidmet. Wie als könne er sein Publikum nicht länger
dürsten lassen, machte sich Sloterdijk daher bald nach der Jahrhundertwende daran, unter dem wuchtigen Titel
Zorn und Zeit ( Suhrkamp Verlag ) eine "politisch-psychologische" Analyse der Kämpfe im gegenwärtigen
Zeitalter zu verfassen. Wieder ist der methodologische Leichtsinn, mit dem dabei verfahren wird,
atemberaubend, eine bloße Rückterinnerung an die angebliche Trieblehre der Antike soll ausreichen, um uns
mit dem notwendigen Rüstzeug einer solchen Gegenwartsdiagnose auszustatten.

Der psychologischen Auffassung der Griechen zufolge, so will uns Sloterdijk ohne jede Kenntnisnahme der
neuen Forschungsliteratur weismachen, sei der Mensch neben seinem erotischen Verlangen mindestens
ebenso stark von einem "Streben nach Erfolg, Ansehen, Selbstachtung" beherrscht; diese "thymotischen
Energien", von der Neuzeit mit der Ausnahme einiger großer Denker ignoriert und von der Psychoanalyse endgültig aus unserem Selbstverständnis verbannt, bildeten den eigentlichen Grundstoff aller politischen Zusammenstöße, weil es in ihnen letztlich nämlich immer um die kollektive Rückeroberung von "Stolz" und "Ehre" ginge. Man will gar nicht erst beginnen, schon hier auf eine gewisse begriffliche Differenzierung zu drängen, besteht doch ein großer Unterschied darin, ob jenes Verlangen auf die Zustimmung des Gegenübers zielt oder sich gerade darüber hinwegsetzen will, also nach intersubjektiver Anerkennung oder nach vermittelungsloser Selbstermächtigung strebt; auch scheint es wenig ergiebig, an dieser Stelle darauf hinzuweisen, dass so unterschiedliche Theoretiker wie George Sorel oder Barrington Moore schon viel früher auf die Schlüsselrolle der "Ehre" in der Motivierung politischer Bewegungen aufmerksam gemacht haben.

Alles das schert Sloterdijk wenig, denn er will auf Wichtigeres hinaus, etwas, das uns in unserem gegenwärtigen Selbstverständnis elementar erschüttert. Wir lernen weiter, dass das Gegenstück zum Stolz, über den die im "Kampf um Anerkennung" (Sloterdijk) Überlegenen verfügen, das Ressentiment derjenigen ist, die von nun an einen untergeordneten Rangplatz in der gesellschaftlichen Statushierarchie einnehmen müssen; um die Schmach dieser Subordination abzuschütteln, werden von hier unten aus moralische Werte der Selbstbeschränkung und der Gleichbehandlung in die Welt gesetzt, in deren Licht die Mitglieder der zum Erfolg gelangten Schichten als Versager dastehen müssen. Insofern besteht das zivilisatorische Geschehen, wie es in bloßer Wiederholung von Nietzsche heißt, in nichts anderem als den immer gleichen Auseinandersetzungen zwischen lebensbejahenden und lebensfeindlichen Gruppierungen, zwischen Kollektiven, die in Stolz ihr Dasein genießen, und solchen, die jenen ihre Vitalität zu verleiden versuchen.


Um es kurz zu machen: Nach Sloterdijk sind diese moralischen Werte und Normen diejenigen, die sich die Gleichheitsfanatiker der unterschiedlichsten Couleur auf die Fahnen geschrieben haben, um mit deren Hilfe die Massen zur Attacke auf die bestehenden Verhältnisse zu bewegen. Was hier unter solchen Gleichheitsforderungen verstanden werden soll, bleibt im Ganzen ziemlich unklar, gemeint sind im historischen Prozess aber alle "nationalistischen" und "internationalistischen" Bewegungen, nur dass die ersten soziale Gleichheit ausschließlich für die jeweils nationale Bevölkerung eingeklagt haben, während sie die zweiten für alle Erdenbürger und -bürgerinnen zu reklamieren versuchten. Von hier aus ist es nicht weit zu der Behauptung, dass die weltgeschichtlichen Katastrophen des 20. Jahrhunderts durch den Aufstand von zwei "Zornkollektiven" angezettelt wurden, in denen Intelлектuelle, die neuen "Welteinstellungen des Hasses", den aus Beschämung und Geringschätzung entstandenen Zorn der Massen durch moralisch-humanistische Parolen gezielt zu organisieren wussten. Irgendwie meint man das alles schon zu kennen, glaubt, ein Amalgam aus Gehlen und Ernst Nolte vor sich zu haben, nur dass die Gleichsetzung von Faschismus und Sozialismus und deren gemeinsame Rückführung auf Motive der Gier und des Ressentiments hier hemdsärmeliger, ja protziger daherkommt.

Nun stellen die bislang wiedergegebenen Spekulationen für unseren Autor offenbar nur philosophische Neid und kein Ressentiment. Natürlich steht es jedem Autor frei, beliebig auf Gedankenmotive der Nicht-besser-ist-er-zufolge die moralische Wut und Empörung der sozial benachteiligten Massen nur mit Motiven eines gegen die Privilegierten gerichteten Ressentiments zu erklären; hier fragt man sich, warum der Umweg über eine solche trivialpsychologische genommen werden muss, wenn doch die politischen Verfassungen westlicher Demokratien die Betroffenen geradezu dazu auffordern, von dem begründeten Anspruch auf rechtliche Gleichbehandlung Gebrauch zu machen. Im Kampf gegen soziale Diskriminierung und ökonomische Benachteiligung versuchen die jeweiligen Akteure nur umzusetzen, was ihnen die moralischen Prinzipien des modernen Rechtsstaates versprechen; dazu ist keine Gier nötig, kein Neid und kein Ressentiment. Natürlich steht es jedem Autor frei, beliebig auf Gedankenmotive der Vergangenheit zurückzugreifen. Aber es bedeutet, Normen der intellektuellen Redlichkeit zu verletzen, wenn dabei das Alte als das Allerneueste ausgegeben wird, nur um sich die Diskussion der längst vorgebrachten Gegenargmente zu ersparen.

Nun stellen die bislang wiedergegebenen Spekulationen für unseren Autor offenbar nur philosophische Lockerungsumbungen dar, die jenen politischen Faustschlag vorbereiten helfen sollten, zu dem er dann am 10. Juni 2009 in der FAZ endlich ausgeholt hat. Aus der "politisch-psychologischen" Einsicht in die ewige Wiederkehr des Kampfes zwischen den zu Recht Privilegierten und den neidvoll Schlächtergestellten muss doch irgendwann einmal die Konsequenz gezogen werden, das ungute Treiben wenigstens für einen historischen Augenblick lang stillzustellen; dafür kann es nach geschichtsphilosophischem Maß nur die Lösung geben, den Bessergestellten endlich das zu geben, was sie wirklich verdienen, um ihnen derart die doch irgendwann einmal die Konsequenz gezogen werden, das ungute Treiben wenigstens für einen historischen Augenblick lang stillzustellen; dafür kann es nach geschichtsphilosophischem Maß nur die Lösung geben, den Bessergestellten endlich das zu geben, was sie wirklich verdienen, um ihnen derart die Chance zu stolzen, freiwilligen Geschenken nach unten zu gewähren. Die politische Parole für dieses historischen Augenblick lang stillzustellen; dafür kann es nach geschichtsphilosophischem Maß nur die Lösung geben, den Bessergestellten endlich das zu geben, was sie wirklich verdienen, um ihnen derart die Chance zu stolzen, freiwilligen Geschenken nach unten zu gewähren. Die politische Parole für dieses Programm lautet, man glaubt es kaum, "Steuerstreik". Aus einerseits; dann, dass die Reichen und Begüterten nur dann die ihnen kulturell auferlegte "Selbstverachtung" abschütteln könnten, wenn sie in einer "Ökonomie des Stolzes" ihr Vermögen in "schönen Handlungen" der freiwilligen Beschenkung nach unten an die Bedürftigen verteilen würden. Das sollte im Klartext so viel heißen wie, dass jede staatliche Pflicht zur Abgabe vom eigenen Reichtum diesen Besitzern nur eine Kränkung des Gefühls wohlverdienten Erfolgs bereite, während dessen souveräne Verausgabung bei den Mitgliedern jener Schichten eine Empfindung beglückender Großherzigkeit auslöse. Hier machte sich jemand, so viel wie klar, sehr ernsthaft Gedanken darüber, wie es in Zeiten einer wachsenden Schere zwischen Arm und Reich um die von der "miserabilistischen" Linken vernachlässigte Seite bestellt ist; genug der Klage über die wachsende Zahl der Arbeitslosen, genug auch der trotzlosen Beschäftigung mit dem Leben da unten, ist es nicht viel erbärmlicher und schmachvoller, auf Teile seines selbst verdienten Vermögens unter sozialstaatlichem Zwang verzichten zu müssen!


Schon der Titel des kurzen Beitrags soll deutlich machen, dass hier jemand über nichts Geringeres nachdenkt als über einen Umsturz all unserer herkömmlichen Werte und Gepflogenheiten; mit einer bloßen Reparatur der gegebenen Gesellschaftsordnung ist es für Sloterdijk nicht getan, wenn so Großes auf dem Spiel steht wie die elende Lage der herrschenden Klassen. Diese könnten sich ihrer beschämenden Situation nur erwehren, so argumentiert Peter Sloterdijk, wenn sie zu politischen Mitteln der Gegenwehr griffen, die den Grund ihrer Beschämung aus dem Weg zu räumen vermöchten; und dieser Grund, die Wurzel allen Übels ist, wie wir weiter lesen, in nichts anderem zu vermuten als der bloßen Existenz des Sozialstaates, jener gigantischen Wohlfahrteinrichtung, mit deren Hilfe sich die Benachteiligten im Schulterschluss mit den moralisierenden Intellektuellen an den Vermögenden schadlos hielten – so zentral ist Sloterdijk diese Einsicht, so wichtig das damit verknüpfte Anliegen, dass er den "Steuerstaat" ein wenig zusammenhanglos auch in seinem neusten
Buch *Du musst dein Leben ändern* (Suhrkamp Verlag) wieder zur Erwähnung bringt, wo er unter Verweis auf Friedrich August von Hayek als "real existierender liberal-fiskalischer Semi-Sozialismus" bezeichnet wird. Man muss auch das damit angedeutete Argument erst mehrmals in Augenschein nehmen, bevor einem dämmert, welche verschrobene These da mit Nonchalance in die Welt gesetzt wird: der Sozialstaat, in Deutschland das Produkt der von oben durchgeführten Reformen Bismarcks, in England oder Frankreich das Resultat erbitterter Kämpfe der Arbeiterbewegung, soll nichts anderes hervorrufen als eine institutionalisierte "Kleptokratie", eine politische Einrichtung also, die die Schlechtergestellten erfolgreich hätten etablieren können, um sich von den Vermögenden finanziell anzueignen, was sie in blinder Resentiment für unrechtmäßig erworben hielten. Eine kleine Rückerinnerung reicht aus, um die damit entwickelte Behauptung als baren Unsinn zu erkennen, der sich einer Mischung aus historischer Ignoranz und theoretischer Chuzpe verdankt.

Bei ihren kollektiven Bemühungen, Maßnahmen der ökonomischen Umverteilung durchzusetzen und auf diesem Weg soziale Rechte zu erkämpfen, konnten sich die wirtschaftlich schlechter gestellten Schichten während der kapitalistischen Industrialisierung von Anfang an auf zwei verschiedene Quellen der moralischen Legitimierung stützen: Zum einen sprang ins Auge, dass das rasch wachsende Geldvermögen von Teilen der bürgerlichen Klasse nur in geringem Umfang mit eigenen Leistungen und Anstrengungen, in viel größerem Maße aber mit dem Zufall der familialen Herkunft und den enormen Erträgen aus unproduktivem Eigentum zu tun hatte; warum aber sollte es denjenigen, die bloß glückliche Umstände in die Lage zur Vermehrung ihres Reichtums versetzt hatten, so viel besser gehen als den Schichten, deren Mitglieder mit produktiver Arbeit tagtäglich zur Erhöhung des Volkseinkommens beitragen? War es somit auf der einen Seite die Berufung auf das vom Bürgertum selbst propagierte Leistungsprinzip, was den lohnabhängigen, häufig verarmten Schichten als moralische Grundlage ihres Kampfes für Umverteilungen beitragen konnte, so auf der anderen Seite die konsequente Auslegung der in den demokratischen Verfassungen verbrieften Bürgerrechte: War darin nicht allen Mitgliedern der neu entstehenden Gesellschaften zugesichert worden, als Gleiche unter Gleichem angesehen und behandelt zu werden, sodass mit Fug und Recht solche sozialen Bedingungen erstritten werden durften, unter denen jeder Bürger die gleichen Chancen zur Teilnahme am gesellschaftlichen Leben besitzen würden?

Kein Ressentiment war hier nötig, um es zu wiederholen, kein Neid und keine Gier, um die Angehörigen der schlechter gestellten Schichten dazu zu motivieren, sich für eine ökonomische Umverteilung von oben nach unten einzusetzen; einzig eine resolute Applizierung der bereits etablierten, vom Bürgertum mitvertragenen Prinzipien auf die herrschenden Umstände war erforderlich, um die Konzentration von ökonomischen Vermögen in den Händen weniger als "Unrecht" zu erfassen und sich entsprechend zu einer moralischen Gegenwehr aufgefordert zu sehen. Die ganze Idee, dass es dazu erst noch des zusätzlichen Anstoßes durch ein Gefühl des Ressentiments bedurft habe, war von Anfang an die intellektuelle Ausgeburt eines Klassenkampfs von oben. Sie wird nicht besser dadurch, dass sie in Zeiten verschärfter Sozialkonflikte regelmäßig wiederholt wird, und auch dann nicht glaubwürdiger, wenn ihr willfähige Intellektuelle wie Sloterdijk wortmächtig den Segen erteilen.

Mit der Charakterisierung des Sozialstaats als einer institutionalisierten "Kleptokratie" ist Sloterdijk jedenfalls an den Punkt seiner Argumentation gelangt, an dem er nun glaubt, erste politische Handlungsanweisungen geben zu können. Wenn der Sozialstaat als ein reines Instrument des Neids der unteren Klassen von den "produktiven Schichten" immer mehr an steuerlichen Abgaben verlangen, wenn er sich gar, wie in den letzten Jahrzehnten, zu einem "geldsaugenden und geldspeienden Ungeheuer" entwickelt habe, dann sei es Sloterdijk zufolge der Zeit, die Angehörigen der derart ausgebeuteten Eliten zur Überwindung ihrer andressierten Selbstverachtung aufzufordern; und also ergeht über unser Land der Schlachtruf an die Vermögenden und Reichen, endlich zu den ihnen zu Gebote stehenden Waffen zu greifen und einen "antifiskalischen Bürgerkrieg" zu eröffnen, um wieder zu einem Leben in Stolz und beglückender Selbstachtung zurückzufinden.

Appendix III: The Hierarchical Structure of the Warburg Library

The complete Article with all the information is now in these files:
http://www.noologie.de/aby.pdf
http://www.noologie.de/aby.htm

The Warburg Institute Library
https://wdl.warburg.sas.ac.uk/

Warburg Digital Library Collections
http://warburg.libguides.com/classification
Ex Libris Aby Warburg: Magic and Science
https://wdl.warburg.sas.ac.uk/islandora/object/islandora%3A3969
Ex Libris Aby Warburg: Magic and Science

The Warburg Institute Library holds a collection
https://warburg.sas.ac.uk/library-collections/library

A video guide is available.

Our Research Guides provide a practical in-depth guide to the Library’s collections.

Contact the Library
Email: Warburg.Library@sas.ac.uk
Tel: +44 (0) 20 7862 8935/6
Twitter: @Warburg_Library
Facebook: @WarburgLibrary

Subject View
https://wdl.warburg.sas.ac.uk/browse/subject

Grid View of the Library
https://wdl.warburg.sas.ac.uk/islandora/object/islandora%3A3969?page=1&display=grid
https://wdl.warburg.sas.ac.uk/browse/classmark

Some history of the Warburg Library
Nietzsche: [515]
"Man muss noch Chaos in sich haben, um einen tanzenden Stern gebären zu können."
https://en.wikipedia.org/wiki/Aby_Warburg
Appendix IV: Adolphe Quételet

The following essay provides a context for the next articles on the works of Jared Diamond and other cultural theorists. We are dealing here with the study of the psychohistory of humanity from different viewpoints. Quételet took the method of statistical analysis, which is also being applied by Gerd Gigerenzer. I have at various occasion mentioned how one can lie with statistics. But Quételet and Gigerenzer are doing something to use statistics to very useful ends.

The reference to the Science Fiction of Isaac Asimov is quite useful since good Science Fiction is Macro History in a laboratory. The other remarkable work in this vein is "Dune" by Frank Herbert. We can view the grand events of human destiny as they are unfolding in a purely statistical way of the blind masses of a sort of struggle of pure energy and pure entropy of events in the planetary biosphere with something human on top of it, as Quetelet and Asimov interpret it, or the forerunner of Gumilev, Vernadsky.

Then we have Rudolf Steiner who interprets it as a struggle of (the supernatural powers of) Ahura Mazda against Ahriman. These are Gnostic in Origin, and re-appear in the Theosophical literature. Or we can interpret it in terms of a struggle of the Promethean human spirit, that rises up against the Gods. (We may find such a theme in the Wagner Operas, but also in Nietzsche's Zarathustra and Oswald Spengler's works).

Psychohistory, a fictional method for predicting humanity's future, takes a hypothetical mathematical technique to extremes, for dramatic effect. But, for less ambitious tasks, we use the basic idea every day; for example, when a supermarket manager estimates how many bags of flour to put on the shelves, or an architect assesses the likely size of a meeting room when designing a building. The character of Seldon was to some extent inspired by Adolphe Quetelet, one of the first to apply mathematics to human behaviour. Quetelet was
born in 1796 in Ghent in the Low Countries, now Belgium. Today’s obsessions with the promises and dangers of ‘big data’ and artificial intelligence are direct descendants of Quételet’s brainchild. He didn’t call it psychohistory, of course. He called it social physics.

The basic tools and techniques of statistics were born in the physical sciences, especially astronomy. They originated in a systematic method to extract information from observations subject to unavoidable errors. As the understanding of probability theory grew, a few pioneers extended the method beyond its original boundaries. Statistics became indispensable in biology, medicine, government, the humanities, even sometimes the arts. So it’s fitting that the person who lit the fuse was a pure mathematician turned astronomer, one who succumbed to the siren song of the social sciences.

Quételet bequeathed to posterity the realisation that, despite all the vagaries of free will and circumstance, the behaviour of humanity in bulk is far more predictable than we like to imagine. Not perfectly, by any means, but, as they say, ‘good enough for government work’. He also left us two specific ideas: l’homme moyen, the ‘average man’, and the ubiquity of the normal probability distribution, better-known as the bell curve. Both are useful tools that opened up new ways of thinking, and that have serious flaws if taken too literally or applied too widely.

Quételet gained the first doctorate awarded by the newly founded University of Ghent. His thesis was on conic sections, a topic that also fascinated Ancient Greek geometers, who constructed important curves – ellipse, parabola, hyperbola – by slicing a cone with a plane. For a time, he taught mathematics, until his election to the Royal Academy of Brussels in 1820 propelled him into a 50-year career in the scholarly stratosphere as the central figure of Belgian science.

Around that time, Quételet joined a movement to found a new observatory. He didn’t know much astronomy, but he was a born entrepreneur and he knew his way around the labyrinths of government. His first step was to secure a promise of government funding. Then he took measures to remedy his ignorance of the subject that the observatory was to study. In 1823, at government expense, he headed for Paris to study with leading astronomers, meteorologists and mathematicians. He learned astronomy and meteorology from François Arago and Alexis Bouvard, and probability theory from Joseph Fourier.

One basic number has a strong effect on everything that happens, and will happen, in a country: its population.

At that time, astronomers were pioneering the use of probability theory to improve measurements of planetary orbits despite inevitable observational errors. Learning these techniques from the experts sparked a lifelong obsession with the application of probability to statistical data. By 1826, Quételet was a regional correspondent for the statistical bureau of the Kingdom of the Low Countries.

One basic number has a strong effect on everything that happens, and will happen, in a country: its population. If you don’t know how many people you’ve got, it’s difficult to plan. You can guesstimate, but you might well end up wasting a lot of money on unnecessary infrastructure, or underestimating demand and causing a crisis. This is a problem that every nation still grapples with.

The natural way to find out how many people live in your country is to count them. Making a census isn’t as easy as it might seem, however. People move around, and they hide themselves away to avoid being convicted of crimes or to avoid paying tax. In 1829, the Belgian government was planning a new census and Quételet, who had been working on historical population figures, joined the project. ‘The data that we have at present can only be considered provisional, and are in need of correction,’ he wrote. A full census is expensive, so it makes sense to estimate population changes between censuses. However, you can’t get away with estimates for long, and a census every 10 years is common. Quételet urged the government to carry out a new census, to get an accurate baseline for future estimates. However, he’d come back from Paris with an interesting idea, an idea, he’d got from the great French mathematician Pierre-Simon de Laplace. If it worked, it would save a lot of money.

... [AG: The questions of average people] ...

What about the average woman? Average child? Which country’s average man is more likely to be a murderer or a victim? Or be a doctor, devoted to saving lives, rather than a suicide, intent on ending his own? A different average man (or woman or child) is needed for each attribute. As Stephen Stigler put it in The History of Statistics (1986), Quételet considered that ‘the average man was a device for smoothing away the random variations of society and revealing the regularities that were to be the laws of his “social physics”.’

After 1880, the social sciences began to make extensive use of statistics, especially the bell curve. Francis Galton was a pioneer of data analysis in weather forecasting, and discovered the existence of anticyclones.
Galton produced the first weather map, published in *The Times* in 1875, and he was fascinated by real-world numerical data and the mathematical patterns hidden within them. When Charles Darwin published *On the Origin of Species* (1859), Galton began a study of human heredity. How does the height of a child relate to that of the parents? What about weight, or intellectual ability? Galton adopted Quételet’s bell curve, using it to separate distinct populations. If data showed two peaks, rather than the single peak of the bell curve, Galton argued that the population concerned must be composed of two distinct sub-populations, each following its own bell curve.

Galton grew convinced that desirable human traits are hereditary, a deduction from evolutionary theory but one that Darwin repudiated. For Galton, Quételet’s average man was a social imperative, and one to be avoided. His book *Hereditary Genius* (1869) invoked statistics to study the inheritance of genius and greatness, with what today appears a curious mixture of egalitarian aims (‘every lad [should have] a chance of showing his abilities, and, if highly gifted, enabled to achieve a first-class education and entrance into professional life’) and the encouragement of ‘the pride of race’. In his *Inquiries into Human Faculty and its Development* (1883), Galton coined the term ‘eugenics’, advocating financial rewards to encourage marriage between families of high rank or intellect. He wanted to breed people with allegedly superior abilities. Eugenics had its day in the 1920s and '30s, but rapidly fell from grace because of widespread abuses, the forced sterilisation of mental patients, and the Nazi delusion of a master race, for example. Today, eugenics is considered racist. It contravenes the United Nations Convention on the Prevention and Punishment of the Crime of Genocide and the European Union’s Charter of Fundamental Rights. However, the idea has never completely gone away.

[AG: Viewed this way, the story of "Dune" is pure-bred eugenics. Of course in Dune one reads not so much about those who didn't meet the requirements.]

... Until recently, pollsters mostly used random samples. The Law of Large Numbers, discovered by Jacob Bernoulli around 1684 and published in his epic Ars Conjectandi (1713), or ‘The Art of Conjecture’, tells us that, if the sample is large enough, the average value of that sample is ‘almost surely’ as close as we wish to the true average. But this doesn’t tell us how big ‘large enough’ should be. A more sophisticated result, the Central Limit Theorem, uses a bell curve to relate the sample mean to the actual mean, and to calculate the smallest sample size that should work.

... Polling organisations use a variety of methods to try to minimise these sources of error. Many of these methods are mathematical, but psychological and other factors also come into consideration. Most of us know of stories where polls have confidently indicated the wrong result, and it seems to be happening more often. Special factors are sometimes invoked to ‘explain’ why, such as a sudden late swing in opinion, or people deliberately lying to make the opposition think it’s going to win and become complacent. Nevertheless, when performed competently, polling has a fairly good track-record overall. It provides a useful tool for reducing uncertainty. Exit polls, where people are asked whom they voted for soon after they cast their vote, are often very accurate, giving the correct result long before the official vote count reveals it, and can’t influence the result.

Today, the term ‘social physics’ has acquired a less metaphorical meaning. Rapid progress in information technology has led to the ‘big data’ revolution, in which gigantic quantities of information can be obtained and processed. Patterns of human behaviour can be extracted from records of credit-card purchases, telephone calls and emails. Words suddenly becoming more common on social media, such as ‘demagogue’ during the 2016 US presidential election, can be clues to hot political issues.

... The social and political challenges are to ensure that such methods are not abused. With the growing introduction of powerful new methods, social physics has come a long way since Quételet first wondered how to find out how many people lived in Belgium, without actually counting them. This is an adapted excerpt from the book ‘Do Dice Play God? The Mathematics of Uncertainty’ (2019) by Ian Stewart, published by Basic Books in September 2019.
Appendix V: Jared Diamond and Guns, Germs, and Steel

This section gives some more details how one can go about observing the fates of humanity by very different methods and from very different viewpoints. The statistical method of Quetelet seems to be the most scientific one since it derives its method from the "hard sciences" like astronomy. But Quetelet didn't bother so much about ecology. This is where Jared Diamond had based his work on. At least in "Guns, Germs, and Steel". Here he spells out the different fates of human societies according to the ecological conditions of their environment. The factors of geographical extension, East-West in Eurasia, and North-South in the Americas and Africa contribute decisively to the (not-so) development of cultures, as well as the availability of work animals. Inversely the close presence of animals in human habitations can lead to deadly diseases being transmitted to humans.

The Humongous Howard Bloom and Herbert Spencer

There is another Behemoth of a similar sort of Thinking: The Humongous Howard Bloom. And Jacques Neyrinck "Der göttliche Ingenieur". This group may be classed as more or less Herbert Spencer'ian Social Darwinists. The most pronounced of this group is Howard Bloom. And he sings the songs of highest praise for the US American Capitalist System.

https://www.heise.de/tp/autoren/?autor=Howard%20Bloom

We may contraposition these views against the work of Patrice Ayme' who is about as vociferous against what he calls the Plutokrats, ie. just those members of the (mainly) US American Capitalist Society who have amassed so many billions and who direct the US politics from behind the scenes, using the politicians as their puppets. And Patrice Ayme' is by no means a Marxist or a Socialist as one may assume. He believes in the Democracy of "We the People".

https://patriceayme.wordpress.com/

As a Morphologist, one believes that it is all "in the eye of the beholder". By whichever conceptual (or ideological) system you view the fates of humanity, you will get the appropriate answers. And the wikipedia is all wrong to call Herbert Spencer a liberal political theorist. Today the meaning of "liberal" has changed quite a lot. Today liberal means a bit leftist leaning, and especially Politically Correct. And if there was anything that Herbert Spencer was not, then it was leftists. So one has to take all these tall tales with a quite a big Table Spoon Granum Salis. So the good Jared is like a Story-Telling God, and he writes good, tall stories, which I like very much.

https://en.wikipedia.org/wiki/Herbert_Spencer

Herbert Spencer (27 April 1820 – 8 December 1903) was an English philosopher, biologist, anthropologist, sociologist, and prominent classical liberal political theorist of the Victorian era. Spencer developed an all-embracing conception of evolution as the progressive development of the physical world, biological organisms, the human mind, and human culture and societies. As a polymath, he contributed to a wide range of subjects, including ethics, religion, anthropology, economics, political theory, philosophy, literature, astronomy, biology, sociology, and psychology. During his lifetime he achieved tremendous authority, mainly in English-speaking academia. "The only other English philosopher to have achieved anything like such widespread popularity was Bertrand Russell, and that was in the 20th century."[1] Spencer was "the single most famous European intellectual in the closing decades of the nineteenth century"[2][3] but his influence declined sharply after 1900: "Who now reads Spencer?" asked Talcott Parsons in 1937.[4]

Spencer is best known for the expression "survival of the fittest", which he coined in Principles of Biology (1864), after reading Charles Darwin's On the Origin of Species.[5] This term strongly suggests natural selection, yet as Spencer extended evolution into realms of sociology and ethics, he also made use of Lamarckism.[6]

https://industrieanzeiger.industrie.de/allgemein/der-goettliche-ingenieur/

https://en.wikipedia.org/wiki/Howard_Bloom

Some more on "Guns, Germs and Steel". Continental Conditions

AG: So, I was telling a tale from the book of "Guns, Germs and Steel". Dear Jared could be forgiven that he forgot in his title, that Guns are normally made of Steel. The Spaniards of the Conquest of the Americas already had guns made of "some sort of" steel. Because these guns were very laborious to fabricate. It was called steel hammer forging, which required to take a rod of steel and hammering it around and around and fuse it together to form a barrel. This was a a very laborious process. The larger Artillery pieces were made of Bronze. This was because the technology of casting (crucible) steel was not available yet. [Except of course in Damascus Steel. I know quite a bit about the different technologies of making and working steel, the technologies of smithing, like reducing iron ore, and smelting and casting, and crucible steel.] When crucible...
steel became available in a greater industrial scale, the guns were of course made of steel. There was just a little bickering on the part of the Arms Industry Historians. Jared Diamond was quite on the point when he stated that in contrast to Eurasia, the continents of Africa and the Americas extended North to South. And this had many ecological evolutionary consequences. And this was a considerable obstacle in the way of migrations and conquests. Because you have to cross so many climate zones, which means totally different ecologies, and especially very interesting different diseases that one comes across. Like the Tse Tse fly in Africa, and then some more interesting species of disease. And a very interesting but rarely noticed obstacle in Africa are the rivers. The flow mostly in the direction East-West, with the exception of the Nile. Near the Equator, there is much water and therefore big rivers like the Kongo, will have very dangerous rapids, torrents, in some places and precipitous drops of a few 100 metres over some kilometres of distance. This means that river shipping is more difficult compared to the very benign rivers of Eurasia like the Rhine, the Danube, the Rhone, the Seine, and most important the Don and the Wolga. In the subtropic regions of Africa, many rivers dry out in the dry season. And the floodplain forests are an even worse obstacle to migration. They harbor the most awful type of vegetation that even a very bad god would have had trouble to make such a botched creation. The vegetation is nothing short of murderous. And then some really bad animals on top of it. Lots of moskitoes, with lots of Malaria, then Dengue Fever, then some type of worm, the Guinea Worm who likes to make the human body as its abode... But when it reaches maturity, it is about 1 meter long, and it must wriggle itself out of the human body, somewhere... And I spare the dear reader the more grisly parts of that journey of the Guinea Worm. And so on and so on. Africa is a sort of Hell-Hole by any measure that you want to take. The problematic thing to think of, how the species of Homo Sapiens could ever develop there, and then migrate out of it, because of the difficulties of the terrain and the vegetation and the diseases. So there was and is quite some scientific speculation whether the theory of Out of Africa made any sense at all. See also some literature about this:

https://de.slideshare.net/asateren/africakimobst
http://www.africa.upenn.edu/Articles_Gen/Obstacles_Development.html

The Out-of-Africa model. A key piece in the puzzle

The out-of-Africa model theorized that humans migrated out of Africa in one big push around 60,000 years ago. At 177,000 – 194,000 years-old, the Misliya Cave jaw provides evidence to disprove this theory. This find is among a host of other discoveries pushing back the date of human evolution, for example the 300,000 year-old earliest modern human fossil from Jebel Irhoud, Morocco, showing an earlier and more varied pattern of human migration out of Africa, such as a recent study supporting the presence of modern humans in Asia 120,000 years ago.4

Douka says this find “confirms the current thought in the community that there was not a single wave out of Africa, but frequent expansions which often failed.” Bae adds, “New data like the evidence from Misliya who likes to make the human body as its abode... But when it reaches maturity, it is about 1 meter long, and it must wriggle itself out of the human body, somewhere... And I spare the dear reader the more grisly parts of that journey of the Guinea Worm. And so on and so on. Africa is a sort of Hell-Hole by any measure that you want to take. The problematic thing to think of, how the species of Homo Sapiens could ever develop there, and then migrate out of it, because of the difficulties of the terrain and the vegetation and the diseases. So there was and is quite some scientific speculation whether the theory of Out of Africa made any sense at all. See also some literature about this:

https://de.slideshare.net/asateren/africakimobst
http://www.africa.upenn.edu/Articles_Gen/Obstacles_Development.html

The discovery of an early human fossil in southern China may challenge the commonly held idea that modern humans originated out of Africa. Jin Changzhu and colleagues of the Institute of Vertebrate Palaeontology and Palaeoanthropology in Beijing, announced to Chinese media last week that they have uncovered a 110,000-year-old putative Homo sapiens jawbone from a cave in southern China's Guangxi province. The mandible has a protruding chin like that of Homo sapiens, suggesting that the fossil could derive from interbreeding. If confirmed, the finding would lend support to the “multiregional hypothesis”. This says that modern humans descend from Homo sapiens coming out of Africa who then interbred with more primitive humans on other continents. In contrast, the prevailing “out of Africa” hypothesis holds that modern humans are the direct descendants of people who spread out of Africa to other continents around 100,000 years ago.


Over on New Scientist, Catherine Brahic offers a cogent summary of the new evidence. Some comes from Asia, where scientists have discovered teeth that may be Homo sapiens dating from before 70 thousand years ago, and possibly from as long ago as 125 thousand. There are also fragments of early human skulls from Israel, which may date to as early as 150 thousand years ago.

What's emerging from this fragmentary evidence — which is still far from widely accepted — is a more complicated picture of when early humans left Africa, and where they went. Writes Brahic:
A closer look at the genetics also suggests there was an earlier migration. Recently, Katerina Harvati of the University of Tubingen in Germany and her colleagues tested the classic "out of Africa at 60,000 years ago" story against the earlier-exodus idea. They plugged the genomes of indigenous populations from south-east Asia into a migration model. They found that the genetic data was best explained by an early exodus that left Africa around 130,000 years ago, taking a coastal route along the Arabian peninsula, India and into Australia, followed by a later wave along the classic route (PNAS, doi.org/tz6).

The Fallacy of the Fossils

AG: The fallacy of the fossils is ecological. The place where fossils are abundant, is mainly because they don't rot so easily. In the middle of a jungle everything organic gets recycled very quickly and thoroughly. So the chance of fossilization is small. The best preserved fossils are exactly in those places where life has a hard time to survive. Like the Badland belt of the USA from Arizona, New Mexico going to the north, and in Asia it is the Gobi Desert. The same it is with the rift valley of East Africa, where some quite arid areas are very suitable for fossil preservation, so Louis Leakey and friends made most of their discoveries there. The fallacy of the fossils is similar to the joke where a man is searching for his lost keys, under the lantern, because he can see better there, even while he had lost the keys somewhere else where it is dark.

https://en.wikipedia.org/wiki/Louis_Leakey

Back to the business of "Guns, Germs and Steel"

AG: So back to the business of "Guns, Germs and Steel" by Jared Diamond. There was another decisive factor that the Europeans had in favor of them. The cows (or oxen), the donkeys, the goats and sheep, the pigs, the horses, and all those domesticated animals which the Amerind autochthonous people of the Americas had very few of. Especially with the load carrying animals. The Llamas and Alpacas are not able to carry big loads, and no way to pull a cart or a plow. I had somewhere enlarged on this in the Spiritual History of Antiquity that the donkeys and the oxen were quite a driver of civilization. Horses less so, because the upkeep of a horse is very expensive indeed. So they were reserved for the higher nobility and the cavallry which was pretty much the same, like in the European Middle Ages. And there arose those famous knights (of the Arthurian Legends of course). When they produced the movie "Monty Python and The Holy Grail", the poor Monty Pythons didn't have enough money for horses. So it came to pass that the German title was: "Die Ritter der Kokosnuss" (Cocoa nut). How could a German translator / synchronizer come up with that funny German title ??? Now if you know the movie business, you know that in all the German synchronizations of US or english movies, the horses were imitated with empty Kokosnuss shells. But if you didn't know this trick, you were out of luck, when you went to the cinema, and there was none whatsoever Kokosnuss to be seen. It was just to be heard. But the poor German movie-goers had no idea of that. I myself did a whole lot of wondering when I first viewed "Die Ritter der Kokosnuss" in the movie theater. And it took me about 20 years of heavy thinking to figure out what this joke was all about.

Monty Python And The Holy Grail 1975 HD
https://www.youtube.com/results?search_query=monty+python+holy+grail
https://www.youtube.com/watch?v=4qvXvDfGnh8

Learning from New Guinea

AG: This is a quote from an article about Jared Diamond and New Guinea.

John Barker, reply by Jared Diamond
March 11, 2004 Issue
To the Editors:
In a lively review of David Sloan Wilson’s Darwin’s Cathedral [NYR, November 7, 2002], Jared Diamond writes: “It will surprise most Jews, Christians, and Muslims to learn that this link between religion and morality is entirely absent in the New Guinean societies of which I have experience.” I don’t think they will be nearly as surprised by this assertion as people familiar with New Guinea societies and religions. Diamond is certainly correct in stating that morality in traditional Melanesian societies tended to be highly relational and localized. But moral behavior was, all the same, infused by religious precepts and practices. A variety of divine entities, ranging from ancestral spirits to demigods, rewarded good behavior and punished bad in local communities. Humans themselves also developed many methods of deploying sacred powers to punish miscreants, through sorcery or witchcraft, or to heal those they felt had been unjustly set upon by others using magic or by ancestral spirits. In several areas of Melanesia, societies evolved elaborate initiation and mortuary complexes that entailed both the teaching and proclamation of moral values. Traditional religious beliefs and practices varied immensely throughout New Guinea, but nowhere was morality divorced from religion.
Instead, the spiritual and the moral were deeply conjoined—even in the case of warfare, I might add—as has been documented in hundreds of articles and books. Diamond’s casual treatment in his review of contemporary New Guinea people as if they were all the same, and as if they represent our own tribal ancestors, also gives pause. Some anthropologists oppose in principle the use of studies of modern tribal peoples as a means to understand the general course of human evolution. I am not among them. Yet I accept that it is critically important, on both ethical and scientific grounds, to acknowledge openly that one can only draw imperfect and incomplete analogies. Contemporary indigenous peoples are as much members of the present as the rest of us; they are not relics of the past. Prior to colonization, New Guinean societies varied greatly and changed through time. Today, Papua New Guinea is an independent nation-state and West Papua a reluctant province of Indonesia. Almost everyone is at least a nominal Christian and one would be hard put to find even remote communities that have not been affected by national and international institutions or by global capitalism. Diamond clearly respects the “traditional” New Guineans of whom he writes. And yet his portrayal of them as timeless tribals perpetuates a widespread stereotype of New Guinea as the “last home of stone-age man,” a stereotype that many of its people regard as a pernicious legacy of colonial prejudice. Ironically, his assertion that traditional New Guinea morality lacked a religious content or basis feeds a related powerful stereotype, one that has both motivated and legitimated missionary campaigns to replace “amoral” (in their view) Melanesian religions with Christian morality.

Jared Diamond replies:

Of course New Guineans are members of the present, vary greatly, and are not timeless tribals. No sensible person would be silly enough to claim otherwise. But it is equally clear that, until the European arrival, New Guinea societies shared many features with each other, with tribal societies elsewhere in the world, and with past tribal societies; they were different in many ways from the state societies that we first-world denizens now take for granted. Those earlier features still have strong legacies in New Guinea today. They included: political organization at the level of the band, tribe, or small chiefdom, not at the level of the paramount chiefdom or state; tribal religions rather than state religions; and moralities grounded tightly in relationships. There is nothing stereotypical in acknowledging, and learning from, such obvious salient features.

More www on Jared Diamond

Since Jared Diamond is just such a good writer, he is everywhere on the www and on youtube. He writes very lucidly, and he is a good story-teller. But when one hears him talk, one is just grossed out. He has such a bad (Bronx or whatnot) accent that one would never think how he could have made it to become a professor.

Jared Diamond on the www

https://en.wikipedia.org/wiki/Guns,_Germs,_and_Steel
https://en.wikipedia.org/wiki/Why_Is_Sex_Fun%3F
https://en.wikipedia.org/wiki/Collapse:_How_Societies_Choose_to_Fail_or_Succeed
https://en.wikipedia.org/wiki/Collapse:_How_Societies_Choose_to_Fail_or_Succeed#Synopsis
https://en.wikipedia.org/wiki/Human_overpopulation
https://en.wikipedia.org/wiki/Planetary_boundaries
https://www.youtube.com/watch?v=IESYMTLlis
https://www.youtube.com/watch?v=7qjJM-3PB6w
https://www.youtube.com/watch?v=GWXr7pXoCTs
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https://www.youtube.com/watch?v=refwHvF6ZA0
https://www.youtube.com/watch?v=5n7yTEALxNc
https://www.youtube.com/watch?v=dGw8kZnJxE
https://www.youtube.com/watch?v=qaxPH3fUfQ

Jared Diamond, author of Guns, Germs, and Steel, is being sued by two Papua, New Guinea, men who claim the award-winning science writer lied about their lives to prove that tribal culture is violent. Diamond’s article in the New Yorker was called "Vengeance Is Ours," and described a young New Guinean man, called Wemp, and his violent quest for revenge after his uncle Soll was killed by another tribe.
Diamond claimed Wemp was out to destroy a tribal leader called Isum, and that to do so he went on a murderous rampage, recruiting dozens of "soldiers" to aid him, and ultimately killing 17 people as well as injuring several others grievously. One of the injured was supposedly Isum (pictured, at far right), whom Diamond describes as being in a wheelchair.

Diamond used the man's story to illustrate a story from his own life, about how his father-in-law had the opportunity to kill the man responsible for murdering his family in a Polish prison camp during World War II. Instead of killing the man, Diamond's father-in-law turned him into police, who released him a year later. Apparently Diamond's father-in-law regretted for the rest of his life that he did not take violent revenge, and it weighed on his conscience.

But the New Guineans, Diamond claims, have no such neuroses because unlike civilized European guys they exact violent revenge on each other all the time.

The problem is that Diamond's notion of tribal culture is based on a fantasy of Diamond's own - one that was propagated by the New Yorker, which never fact-checked his story with the two men it featured as main characters. Wemp killed nobody, and Isum is not in a wheelchair - as you can see from the picture above. Indeed, the two men say they have never met and Isum has suffered no injuries at all. After the story went up online, Wemp suffered tremendously: He'd been accused of heinous crimes, which the men's lawsuit says he did not commit. Other mistakes Diamond made include extremely basic facts, such as which tribes the men are associated with.

### Popular science works

**The Third Chimpanzee** (1991)

Diamond's first popular book, *The Third Chimpanzee: The Evolution and Future of the Human Animal* (1991), examines human evolution and its relevance to the modern world, incorporating evidence from anthropology, evolutionary biology, genetics, ecology, and linguistics. The book traces how humans evolved to be so different from other animals, despite sharing over 98% of our DNA with our closest animal relatives, the chimpanzees. The book also examines the animal origins of language, art, agriculture, smoking and drug use, and other apparently uniquely human attributes. It was well received by critics and won the 1992 Rhône-Poulenc Prize for Science Books and the Los Angeles Times Book Prize.

**Guns, Germs, and Steel** (1997)

His second and best known popular science book, *Guns, Germs, and Steel: The Fates of Human Societies*, was published in 1997. It asks why Eurasian peoples conquered or displaced Native Americans, Australians, and Africans, instead of vice versa. It argues that this outcome was not due to biological advantages of Eurasian peoples themselves but instead to features of the Eurasian continent, in particular, its high diversity of wild plant and animal species suitable for domestication and its east/west major axis that favored the spread of those domesticates, people, and technologies for long distances with little change in latitude. The first part of the book focuses on reasons why only a few species of wild plants and animals proved suitable for domestication. The second part discusses how local food production based on those domesticates led to the development of dense and stratified human populations, writing, centralized political organization, and epidemic infectious diseases. The third part compares the development of food production and of human societies among different continents and world regions. Guns, Germs, and Steel became an international best-seller, was translated into 33 languages, and received several awards, including a Pulitzer Prize, an Aventis Prize for Science Books, and the 1997 Phi Beta Kappa Award in Science. A television documentary series based on the book was produced by the National Geographic Society in 2005. A television documentary series based on the book was produced by the National Geographic Society in 2005.

**Why is Sex Fun?** (1997)

In his third book, *Why is Sex Fun?*, also published in 1997, Diamond discusses evolutionary factors underlying features of human sexuality that are generally taken for granted but that are highly unusual among our animal relatives. Those features include a long-term pair relationship (marriage), coexistence of economically cooperating pairs within a shared communal territory, provision of parental care by fathers as well as by mothers, having sex in private rather than in public, concealed ovulation, female sexual receptivity encompassing most of the menstrual cycle (including days of infertility), female but not male menopause, and distinctive secondary sexual characteristics.

**Collapse** (2005)

Diamond's next book, *Collapse: How Societies Choose to Fail or Succeed*, published in 2005, examines a range of past societies in an attempt to identify why they either collapsed or continued to thrive and considers what contemporary societies can learn from these historical examples. As in Guns, Germs, and Steel, he argues against explanations for the failure of past societies based primarily on cultural factors, instead focusing on ecology. Among the societies mentioned in the book are the Norse and Inuit of Greenland, the Maya, the Anasazi, the indigenous people of Rapa Nui (Easter Island), Japan, Haiti, the Dominican Republic, and modern Montana. The book concludes by asking why some societies make disastrous decisions, how big businesses affect the environment, what our principal environmental problems are today, and what individuals can do about those problems. Like Guns, Germs, and Steel, Collapse was translated into dozens of languages, became an international best-seller, and was the basis of a television documentary produced by the National Geographic Society.

It was also nominated for the Royal Society Prize for Science Books.
"Vengeance is Ours" controversy (2008)
In 2008, Diamond published an article in The New Yorker entitled "Vengeance Is Ours", describing the role of revenge in tribal warfare in Papua New Guinea. A year later two indigenous people mentioned in the article filed a lawsuit against diamond and The New Yorker claiming the article defamed them. In 2013, The Observer reported that the lawsuit "was withdrawn by mutual consent after the sudden death of their lawyer."[4]

Natural Experiments in History (2010)
In 2010, Diamond co-edited (with James Robinson) Natural Experiments of History, a collection of seven case studies illustrating the multidisciplinary and comparative approach to the study of history that he advocates. The book's title stems from the fact that it is not possible to study history by the preferred methods of the laboratory sciences, i.e., by controlled experiments comparing replicated human societies as if they were test tubes of bacteria. Instead, one must look at natural experiments in which human societies that are similar in many respects have been historically perturbed, either by different starting conditions or by different impacts.[clarification needed] The book's afterword classifies natural experiments, discusses the practical difficulties of studying them, and offers suggestions on how to address those difficulties. The World Until Yesterday (2012)
In The World Until Yesterday, published in 2012, Diamond asks what the western world can learn from traditional societies. It surveys 39 traditional small-scale societies of farmers and hunter-gatherers with respect to how they deal with universal human problems. The problems discussed include dividing space, resolving disputes, bringing up children, treatment of elders, dealing with dangers, formulating religions, learning multiple languages, and remaining healthy. The book suggests that some practices of traditional societies could be usefully adopted in the modern industrial world today, either by individuals or else by society as a whole.[citation needed]

Upheaval (2019)
In Upheaval: How Nations Cope with Crisis and Change Diamond is examining whether nations can find lessons during crises in a way like people do. The nations considered are Finland, Japan, Chile, Indonesia, Germany, Australia, and the U.S.[26] Anand Giridharadas, reviewing for The New York Times, claimed the book contained many factual inaccuracies.[27] Daniel Immerwahr, reviewing for The New Republic, reports that Diamond has "jettisoned statistical analysis" and the associated rigour, even by the standards of his earlier books, which have themselves sometimes been challenged on this basis.[28]

The Wikipedia on Jared Diamond

Jared Mason Diamond (born September 10, 1937) is an American geographer, historian, and author best known for his popular science books The Third Chimpanzee (1991); Guns, Germs, and Steel (1997, awarded a Pulitzer Prize); Collapse (2005); and The World Until Yesterday (2012). Originally trained in physiology, Diamond is known for drawing from a variety of fields, including anthropology, ecology, geography, and evolutionary biology. He is a professor of geography at UCLA.[26]

In 2005, Diamond was ranked ninth on a poll by Prospect and Foreign Policy of the world's top 100 public intellectuals.[27] The Third Chimpanzee (1991)
Diamond's first popular book, The Third Chimpanzee: The Evolution and Future of the Human Animal (1991), examines human evolution and its relevance to the modern world, incorporating evidence from anthropology, evolutionary biology, genetics, ecology, and linguistics. The book traces how humans evolved to be so different from other animals, despite sharing over 98% of our DNA with our closest animal relatives, the chimpanzees. The book also examines the animal origins of language, art, agriculture, smoking and drug use, and other apparently uniquely human attributes. It was well received by critics and won the 1992 Rhône-Poulenc Prize for Science Books[14] and the Los Angeles Times Book Prize.[15]

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Recently somebody who shares my distaste for Jared Diamond alerted me to an article that appeared in the
April 21, 2008 "New Yorker". Titled "Vengeance is Ours: What can tribal societies tell us about our need to
get even?", it is focused on his account of so-called tribal wars in the highlands of Papua New Guinea,
where Diamond has conducted many field trips studying the flora and fauna, as well as the bestial tribesmen apparently.
Papuan native: key to unlocking wars and ethnic cleansing?
Using interviews with an ostensibly self-confessed killer, who is a member of the Handa clan, the innocent
reader is led to believe that the highlands of Papua are a kind of a Rosetta stone for understanding wars
and ethnic cleansing. The feuding in the highlands, which usually involve slights such as a pig belonging to
one clan ruining the garden of another clan, leads to a steady escalation of Hatfield-McCoy type
confrontations that remind Diamond of the worst crimes of the 20th century:
Indeed, his Papuan "confessor's" bloodlust triggers memories of Diamond's late father-in-law Jozef Nabel (a
Jew) who refused at the last minute to wreak vengeance on Polish villagers who had killed his wife, sister
and niece in pursuit of loot. Nabel, who served in a Polish division attached to the Red Army, eventually
captured with the perpetrators but decided at the last minute not to wreak vengeance since the new Polish
government would be expected to carry out justice. But by relinquishing control to a higher body, a kind of
primitive, almost animal-like satisfaction is lost as Diamond puts it:

My conversations … made me understand what we have given up by leaving justice to the state. In order to
induce us to do so, state societies and their associated religions and moral codes teach us that seeking
revenge is bad. But, while acting on vengeful feelings clearly needs to be discouraged, acknowledging them
should be not merely permitted but encouraged. To a close relative or friend of someone who has been
killed or seriously wronged, and to the victims of harm themselves, those feelings are natural and powerful.
Many state governments do attempt to grant the relatives of crime victims some personal satisfaction, by
allowing them to be present at the trial of the accused, and, in some cases, to address the judge or jury, or
even to watch the execution of their loved one's murderer.

The first thing that leapt out at me when reading Diamond's article is how devoid of social or economic
context it is. You feel that you are reading something out of the Old Testament—but without the deity
instructing the Israelis to punish the Egyptians, etc. Diamond makes it clear that such considerations do not
interest him. He writes:

Anthropologists debate whether the wars really arise from some deeper underlying ultimate cause, such as
land or population pressure, but the participants, when they are asked to name a cause, usually point to a
woman or a pig.
Unfortunately, I find Diamond’s reliance on the testimony of his subjects somewhat unreliable given what appears his tendency to put words in the Papuan’s mouth. Now I might be wrong, but somehow I find it far-fetched that a Papuan would have expressed himself to Jared Diamond in the words attributed to him in the New Yorker article:

I admit that the New Guinea Highland way to solve the problem posed by a killing isn’t good. Our way disturbs our day-to-day life; we won’t be comfortable for the rest of our lives; we are always in effect living on the battlefield; and those feelings go on and on in us. The Western way, of letting the government settle disputes by means of the legal system, is a better way. But we could never have arrived at it by ourselves: we were trapped in our endless cycles of revenge killings.

Just try to imagine a Papuan self-confessed killer using these formulations. I can’t. Frankly, it smacks of Jared Diamond using this unfortunate individual as a sock-puppet for his own sociobiological predispositions. Lurking beneath the surface of his article are certain assumptions about a “killer instinct” that fit neatly into the “naked ape” nonsense that flourished once upon a time in the pages of Time Magazine and elsewhere. Despite Diamond’s reputation as a scrupulous biologist, his career involves making exactly the same types of speculations as a Robert Ardrey as I pointed out in one of the installments in my dissection of “Collapse”:

Diamond showed his sympathy for this trend with the publication of “The Third Chimpanzee” in 1993. This exercise in sociobiology (an updated version of the 19th century social Darwinism) includes a chapter titled “The Golden Age That Never Was”... Diamond has many other interesting things to say about any number of subjects. He argues that since animals have an evolutionary imperative to pass on their genes, art must be a clever stratagem by men to lure women into bed. This led Tom Wilkie to drolly observe in the May 22, 1991 Independent that this lesson must have been lost on Tchaikovsky, Andy Warhol and other homosexual artists. Diamond also believes that sexual jealousy is an important cause of war: “It was the seduction (abduction, rape) by Paris of Menelaus’s wife Helen that provoked the Trojan War”. In light of the fact that the Iliad also claims that gods and goddesses took part in the fighting, Wilkie wonders how reliable a guide to history it is.

Unrepentant Marxist that I am, it is incumbent on me to bring up those oh-so-boring issues of land or population pressure. In an article titled “Of I Skulim Mipela: Contemporary Warfare in the Papua New Guinea Eastern Highlands” that appeared in the Oct. 1984 issue of “Anthropological Quarterly”, George D. Westermark pointed to the introduction of capitalist farming in the region as a prime aggravator of tensions between native peoples forced to compete for fewer and fewer resources. Coffee plantations and cattle ranching promoted by Australians led to less land available for subsistence farming. In other words, the same kinds of pressures that made Rwanda a living hell have also increased in-fighting in the highlands of Papua.

Furthermore, if Jared Diamond was truly interested in reducing the level of violence in New Guinea, he should start with the imperialist companies that have put these kinds of pressures on the indigenous peoples. As somebody with the kinds of connections he has with Chevron, which has seen its profits fattened through drilling in New Guinea, Diamond might persuade the owners of Freeport Copper to take their operations elsewhere given the impact they have had had on the lives of Papuans.

In the 1960s, the Indonesian government sent its troops in to destroy resistance to the Freeport mining that led to the death of at least 45,000 people. Villages were bombed and burned in an effort to break the back of the movement. Any tribal fighting is dwarfed by this kind of wholesale bloodshed.

Another copper company based in Bougainville was just as vicious. Indigenous peoples armed with nothing but bows and arrows went into battle against the multinational that once again relied on the Indonesian government for protection. Forests were cleared in order to establish the copper mine in 1969, leaving hundreds of native peoples landless. Further “economic development” left others without fishing rights. Altogether two hundred and twenty (220) hectares of local forests were poisoned, felled and burnt, and then bulldozed into nearby river, along with tons of rich organic topsoil.

All in all, the people of Papua New Guinea have been subjected to the same kinds of quasi-genocidal onslaughts from Indonesia that the people of East Timor have suffered. Amnesty International and most other human rights organizations agree that at least 100,000 Papuans (one sixth of the total population) have been killed during the occupation. In an effort to exploit the region’s riches, native peoples have been slaughtered and driven into submission. This is the real story, not the Hatfield-McCoy scenario that Jared Diamond titillated his New Yorker audience with.

All Over the Map: Jared Diamond struggles to understand a connected world.

AG: More on Jared Diamond. He has his own political twist, which is analyzed very thoroughly by Daniel Immerwahr. "All over the Map". I must laugh when I read the author's name. Immerwahr means "always speaking the truth", which is also called the Aletheia in the Philosophical Lingo. I have referenced the "Philosophy of the Lie" by Arno Baruzzi. This is also "a kind of" Immerwahr. (I am laughing really hard, ROFL in www lingo).
I like this criticism of Jared Diamond as much as I like the tall stories of the good Jared. It is mostly the same, whether we take the 3-volume piece of the Matrix, and the xyz-volume pieces of the Star Wars Saga. The more volumes one adds on top of the original work, the more diluted it becomes. So the later works of Jared Diamond are just a re-hash. "Collapse" has nothing new to say since the theme has been re-worked thoroughly by the "Club of Rome" crowd who see "collapse" going on all around us. The ecological situation world wide is on "collapse course" except maybe in Switzerland, and maybe in Norway. We have no idea as yet, why the ecology there is not "collapsing". Perhaps it is because the Swiss know the Land Management for about 500-1000 years or so. And in Africa and Asia and South America no-one has the slightest idea what Land Management is all about. I just add a few "?? - signs" and a few "$$$ - signs" just to amplify the question why "collapse" happens in some places but not in other places.

"Guns Germs and Steel" was quite original, and the evolutionary ecological history is a field that hadn't been worked too much by his-storians. Except of course Lev Gumilev, who had expounded all of Vernadski, who had been the first evolutionary ecological historian of hu-manity. It is just such a pity that no-one of the Western historians ever noticed that. And especially not the German historians like the good Herfried Münkler. And it is quite correct that Jared Diamond is quite as good as a political propaganda machinator, who has all the best "friendships" with all the elites of all the (near-) collapsing nations that he describes. "Honni soit qui mal y pense". As I say it again and again: A his-storian is the pet dog (or minion) of the power mongers and he is kept in a good and well-paid professor position so that he writes the elogies and the euphemisms and apotheoses of All the Good Head Honchos. Since we all know the business of the his-storians by now, we should not be surprised at all.

Back to the article All Over the Map: By Daniel Immerwahr, June 11, 2019
Jared Diamond doesn’t use a computer. He relies “completely” on his secretary and on his wife for “anything” requiring one, as he puts it. Diamond also confesses that he lacks the ability to turn on his “home television set” and can “do only the simplest things” with his newly acquired iPhone. “Whenever friends have shown me how to use a computer, they turn it on and something goes wrong,” Diamond once explained to an aghast reporter. “I just get frustrated.”

UPHEAVAL: TURNING POINTS FOR NATIONS IN CRISIS by Jared Diamond Little, Brown and Company, 512 pp., $35.00

Why It Matters How Powerful Men Treat Women
Give War a Chance
The First Democratic Debate Failed The Planet
The Supreme Court’s Covert Plan to Gut the EPA’s Powers
Why Georgia Brings Out Putin’s Insecurities

Such incapacities haven’t held Diamond back. Just the opposite. He has spent much of his career explaining and championing the “modern ‘Stone Age’ peoples,” as he calls them—cultures reliant on tools and practices dating back thousands of years. The most “vivid part of my life,” Diamond has written, was spent in “technologically primitive human societies,” especially the “intact” societies of New Guinea, where Diamond worked for decades studying birds. It was on one such ornithological trip in the 1970s that Diamond encountered a “remarkable” Papua New Guinean named Yali. Diamond met him by chance on a beach, the two walked together for an hour, and Yali—with a “penetrating glance of his flashing eyes”—asked a big question: Why did whites have so much and New Guineans so little? Diamond’s breakout book, Guns, Germs, and Steel, was his answer. It offered a sweeping survey of the past 13,000 years. Thinking as a scientist, Diamond searched for the variables that had shaped societies. Though he couldn’t run laboratory experiments on large human groups, he could find “natural experiments,” similar societies that differed in just a few crucial respects. Their divergent fates could illuminate the effects of those differences. Islands and other locales with a “considerable degree of isolation,” Diamond wrote, work best for this purpose.

On the scale of millennia, Diamond concluded, individual decisions don’t make much difference to the trajectories of societies. Environmental factors are far more important. Guns, Germs, and Steel emphasized the shape of continents. Eurasia’s horizontal axis allowed plants and germs to spread easily along latitudinal belts, endowing its inhabitants with large populations, powerful technologies, and fiercely contagious diseases (useful weapons in colonizing foreign lands). The Americas and sub-Saharan Africa, by contrast, run on
vertical axes and produced smaller and less epidemiologically menacing civilizations. It was a reassuring conclusion, conspicuously rejecting racism and chauvinism in its account of nonindustrial cultures.

The book was stuffed with hundreds of pages of geography, epidemiology, and archaeology, and it presented virtually no characters besides Yali. Nevertheless, it caught fire, selling more than 1.5 million copies in dozens of languages, winning a Pulitzer Prize, and taking up a permanent perch in airport bookstores across the planet. It helped that Guns, Germs, and Steel was fun. Diamond offered charming explanations of why humans learned to farm almonds but never acorns (“slow growth and fast squirrels”), or why they ride horses but not zebras (nasty dispositions and a penchant for biting). Eight years later, Diamond produced a sequel, Collapse, studying mainly “small, poor, peripheral, past societies” that had fallen apart—the Norse in Greenland, and the ill-omened inhabitants of Rapa Nui, or Easter Island. These, too, he chronicled with palpable sympathy. “They were people like us,” he wrote. And perhaps, without care, we might share their fate.

Jared Diamond is back, now with the final installment of what his publisher describes as his “monumental trilogy.” Where Collapse explored places that failed, the new volume, Upheaval, asks about those that survived. It takes Diamond far from the sorts of societies where he’s felt most alive: the closed-off tribes, the “Stone Age” peoples. Upheaval examines such large countries as the United States, Finland, Japan, and Chile, and mainly in the twentieth and twenty-first centuries. Through them, Diamond hopes to show how nations have made it through destabilizing crises. But what we see instead is how poorly suited his approach—honed on nonindustrial and isolated societies—is for large, connected ones in an age of globalization.

If Yali inspired Guns, Germs, and Steel, with the inspiration for Upheaval was Diamond’s wife, Marie Cohen, a clinical psychologist. Her work at a community mental health center in the first year of their marriage acquainted Diamond with factors that therapists have identified to predict whether a patient will prevail in a crisis. Diamond selects a dozen: acknowledging the crisis, accepting responsibility, defining the problem, getting help, having patience, and so on. The same twelve variables, he argues, can be applied with slight modification to nations. Examining seven cases, Diamond sets out to show how his factors account for countries’ ability to weather tumult.

Twelve variables, seven cases—this is the language of scientific history, the approach Diamond has long championed. A centerpiece of Collapse was his study of the effects of nine variables (such as temperature, moisture, and airborne volcanic ash) on island societies’ survival. Though Diamond’s high-velocity romps through history often vex specialists, this one earned him “high marks” from Patrick Kirch, a distinguished archaeologist of Oceania. Diamond had designed his study carefully. Nine variables were a lot, he acknowledged, so it “would have been utterly impossible to evaluate them without a large database and without the use of statistics.” He and his fellow researcher, Barry Rolett, began with the hunch that Rapa Nui’s storied collapse was environmentally caused. But without their careful statistical analyses of 80 other islands and similar locales, Diamond wrote, that guess “could not have been accepted.”

Past Jared Diamond, meet Present Jared Diamond. Whatever rigor Diamond demanded of himself in writing Collapse has been set aside in Upheaval. Now we have more variables (twelve), and significantly fewer cases (only seven). Worse, the variables, ported from the psychological study of individuals to the sociological study of nations, are unquantified and maddeningly hard to pin down. How to know whether a nation has “honest self-appraisal”? And how to balance the variable of “national core values” against “national flexibility”—wouldn’t one cancel the other out? Diamond initially sought to find ways to measure his variables and test their effects, as he’d done for his island study. But he concluded that this would entail “a large project.” And so, displaying a decided lack of variables 2 (accepting personal responsibility), 4 (getting help from others), and 9 (patience), he gave up.

What remains is a “narrative survey,” speculative and loose. Finland endures the Soviet Union. Australia sheds its white identity. Germany recovers from Nazism. The crises differ in type and severity. What unites them is that the nations in question survived.

Survival, it must be said, is a low bar to clear. Consider one of Diamond’s cases, Indonesia. Its crisis was that in 1965, two army units killed six generals in a coup attempt. The ensuing tumult gave the general Suharto an opening to push aside Indonesia’s left-leaning president, Sukarno. And the army inaugurated a massacre of some half-million suspected communists. Suharto soon took over, ruling Indonesia as a corrupt dictatorship for some 30 years.

It wasn’t all bad, argues Diamond, who worked in Indonesia for 17 of those years. The ousted Sukarno had been no saint, and, “neglecting Indonesia’s own problems,” he had “involved himself in the world anti-colonial movement.” Suharto, by contrast, was an “outstanding realist” who rightly “abandoned Sukarno’s world
pretensions” and concentrated on internal affairs. His regime “created and maintained economic growth,”
promoted family planning, and “presided over a green revolution.” And the subsequent years have given the
country, Diamond notes, a “deepening sense of national identity.”

What accounts for Indonesia’s success, such as it was? It’s hard to say. The problem isn’t merely that
Diamond has jettisoned statistical analysis. It’s that the crisp explanations that populated Guns, Germs, and
Steel—the acorns, zebras, and continental axes—are missing. We learn that the government articulated core
values, but that Indonesians, divided among thousands of islands and hundreds of languages, suffered a weak
national identity. Indonesia identified its problems but at first lacked honest, realistic self-appraisal. Diamond
isn’t noticeably wrong in those judgments, vague as they are; it’s just that he adds little to our understanding
by them. It is hard to imagine a reader shouting “Aha! Core national values! Now I get why Indonesia’s
economy grew.”

Lacking those eureka bursts, Upheaval settles into story time. There are joys here, particularly in Diamond’s
historical accounts. He narrates Finnish guerrilla tactics against the Red Army in World War II with infectious
glee (skis and white camouflage, it turns out, fare well against tanks). He applies a similar gusto to the tale of
nineteenth-century Japan, crediting Japan’s “unifying national ideology” and realistic self-assessment with its
mastering of Western technologies during the Meiji Restoration.

Yet the closer he gets to his own time and place, the less brightly this crazy Diamond shines. One problem is
the basis of his authority. Diamond chose his case studies not for the insights they offer, but because they’re the
countries he’s lived in (save for Japan, though Diamond reassures the reader that he has Japanese cousins
and nieces by marriage). Rather than ground his pronouncements in the scholarship he’s read, he repeatedly
invokes “my own first-hand experiences and those of my long-term friends.” His “friends” tell him that a coup
against Chile’s elected leftist President Salvador Allende was “inevitable,” that Japanese teenagers text too
much to date, and that U.S. venture capitalism succeeds because it takes bold risks. Those friends include
senators, investors, and a member of the Dutch defense force in New Guinea—nearly all represent the elite of
Diamond’s chosen societies.

Perhaps it’s not a surprise that the meandering accounts that follow offer mainly middle-class nostrums and
bland conventional wisdom. Chile was right to proceed cautiously in punishing members of the Pinochet
dictatorship. Japan should apologize more fully for World War II. Australia’s wines are delicious—Diamond
recommends De Bortoli’s One, Penfolds Grange, and Morris of Rutherglen’s Muscat.

Upheaval’s final case is the United States, where Diamond worries most about the loss of compromise and
civility. It’s a problem he knows well; a peer-reviewed scholarly journal recently ran an editorial titled “F**k Jared Diamond.” Yet reading Diamond on “declining courtesy” in elevators, the super-abundance of TV
channels, and younger people’s obsession with their cell phones, one feels oneself less in the presence of a
penetrating social theorist than a dyspeptic relative at the Thanksgiving table. As Bernard DeVoto once said of
Margaret Mead: “The more anthropologists write about the United States, the less we believe what they say
about Samoa.”

At the start of Guns, Germs, and Steel, Diamond identifies Yali as a “local politician” who had “never been
outside New Guinea.” A reader, noting the pictures Diamond includes of New Guineans in traditional garb and
reading his talk of “intact societies” there, might take Yali for someone bound by custom, a man with
constrained horizons.

But that would be wrong. Yali had left his home—the Ngaing bush area of Sor—at a young age to work in a
European-run hotel. He had been a sergeant in the colonial police, left his country, joined an intelligence unit
of the Australian army, spent time on a U.S. submarine, led an insurrection, and served nearly six years in
prison for “incitement to rape.” I know this because, eight years before Diamond met Yali, the anthropologist
Peter Lawrence profiled him extensively in his classic study of cargo cults, Road Belong Cargo. In Lawrence’s
telling, Yali was thoroughly enmeshed in an international economy and international politics. His time outside
New Guinea—contrary to Diamond’s claim that he’d never left the island—had been crucial to his evolving
political thought.

The difference between Diamond’s Yali and Lawrence’s Yali illustrates a key feature of Diamond’s oeuvre,
one that has great bearing on Upheaval. Diamond has always been drawn to “isolated” cultures or those just
on the cusp of contact with outsiders. They best suit the natural experiments methodology as he practices it,
and they have been the reliable source of his most memorable material. But the other side of the coin is that
Diamond has a noticeable habit of downplaying the external connections of the places he’s describing. Instead
of Yali the anti-colonial leader or Yali the Allied intelligence officer, we get Yali the provincial New Guinean
lowlander. It is, the geographer Alf Hornborg writes, an “atomistic approach,” one that looks at the world and sees only separate societies “managing their own destinies.” Diamond has always been drawn to “isolated” cultures. He looks at the world and sees separate societies managing their own destinies.

That approach, perhaps appropriate for Rapa Nui circa 1500, falters when applied to modern countries. Again, take Indonesia. Surely, Diamond is correct that its national identity, core values, problem-solving skills, and self-appraisal mattered. But it seems bizarre to focus on these while saying so little about external factors. Most notably, Indonesia at the time of its crisis was a Cold War battleground. Both the United States and Soviet Union poured military aid into the country, while China egged the communists on. These powerful outside forces helped mold local political fights into a war over communism, and they intensified the resulting violence. “It is impossible to think of Indonesia in 1965–1966 outside of the Cold War,” the historian Bradley Simpson insists.

The broader context mattered for what came next, too. Diamond notes with satisfaction that Indonesia has calmed and prospered in the past half-century. But these are not unusual outcomes. The International Monetary Fund expects only 5 percent of national economies to shrink this year. Per-capita deaths from war—civil or otherwise—have diminished sharply since 1945. Indeed, the awkward fact about Upheaval is that the outcome it seeks to explain, persistence through change in modern times, is the overwhelming norm.

The sort of “we have no more food and are, in fact, all dead” collapse that Diamond described fifteenth-century Vikings suffering in Greenland is today extremely rare (and it’s not even clear Diamond was right about the Vikings). There is thus little surprise that Chile, Japan, Finland, Australia, and Germany survived their storms. What is perhaps surprising is that health, peace, and prosperity have on average risen dramatically in the past 50 years. But as these are global trends, they cannot be satisfactorily explained by many individual nations defining problems clearly or exhibiting “situation-specific national flexibility”—Diamond’s variables. To say that few societies have fallen apart recently is no guarantee of a tranquil future. It’s just that, if catastrophe lies ahead, we will almost certainly experience it not as “nations” but as a planet, at the scale where Diamond’s variables seem less relevant.

Diamond acknowledges the difficulty of applying his Twelve Habits of Highly Effective Nations to the world as a whole. Using the traits of individuals to diagnose societies is intellectually treacherous enough; using them on an entire species is worse. Does humanity exhibit enough unity to even have “core values”? In response, Diamond weakly offers a parable about bird-watching in the Middle East. Despite hostility between Lebanon and Israel, birders in each country have agreed to send warnings about large avian flocks heading into each other’s country, where they pose dangers for planes. This, Diamond cedes, “falls short of an agreement for all 216 nations constituting the whole world.” But it’s a start.

The first page of Diamond’s trilogy—his conversation with Yali—was memorable. The last page is not. “Crises have often challenged nations in the past,” Diamond writes. “They are continuing to do so today.” Fortunately, he concludes, summoning the final gust of wind like an undergraduate completing a term paper, “familiarity with changes that did or didn’t work in the past can serve us as a guide.” That’s not wrong, but nor is it helpful. Diamond seems unsteady in a world illuminated by iPhone screens. Complex countries, global economies, and international politics strain his “nations are like people” view of things. You’re left with the sense that he was on firmer ground where he started, chatting amiably as he strolled along the New Guinean shore.
Appendix VI: Lev Gumilev on Empires and then Some

The Better Morphology of History by Lev Gumilev

Lev Gumilev was quite a bit better than Spengler at thinking the Morphology of History. He called it the "Ethnogenesis and the Biosphere". And this was much better and clearer than the work of the poor Spengler. Because Spengler had done some thinking that was quite dyed in the wool with German Romanticism, like the work of Nietzsche and Goethe, which usually doesn't lead one into clear and precise thinking. And even the good Schopenhauer, as good as he was, was not a friend of Systematics, for all of his other merits that he had. I am so sorry to say that. You can learn the Systematics mostly from Whitehead, who was an English Thinker through and through. And the English philosophers knew it better than to engage in Romanticism. So I am very much indebted to Gumilev, as one of the First and Foremost Thinkers of the History of the Ethnology, or better: The Morphology of the Psycho- Anthropology of hu-Mankind. Since the work of Gumilev is also a quite hefty volume, there is no room to include this in the present text. I just give some extracts of the Table of Contents, which I had converted into Hypertext, to facilitate the Reading a little bit, and to make the quoting a little bit easier. The work is therefore much easier to access, than just giving the page numbers of the book. Since his book is practically unknown to the Western Historians, it is also pretty useless to quote from the book, because practically no-one has this book. And to get it from the Library is also not so easy. But it is there on the Internet, for everyone who wants to get it. And I surely hope that the Copyright Hunters of the Matrix have not yet found out that this book exists on the www. Because then it would vanish into thin air in no time flat. I know this very well, how the best books on the www just vanish, when the new EU copyright rules really take effect. So I am very cautious and I save everything in my Archives, for the case that they vanish from the www. So to give some backgrounds of Gumilev's work. He leaned heavily on the theory of the Biosphere of Vernadski. And this man was one of the most egregious Thinkers of Biology and Ecology long before the Western Biology and Ecology professors were able to come up with the concept. Since I have read the most important works of Vernadsky, I am very familiar with that thought structure. And then there was Lotman, who had invented the Semiosphere. And most thinkers of the Western Intelligenzia had never heard of such a thing. Not even the good Umberto Eco. And I have done some extensive quoting of this in my Dissertation under those Headings. From the .htm and from the .pdf version:

http://www.noologie.de/desn.htm
http://www.noologie.de/ag-dis.pdf

Die geosphärische System-Einbettung der Musterklassen

Vernadskys Arbeit handelt wesentlich von den Interaktionen des Lebens, der Biosphäre, mit der (Atmo- (Hydro- und (Litho- Sphäre, welches er als chemisch- energetisches Gesamtsystem betrachtet. ¹ Lovelock formulierte unabhängig von Vernadsky in seiner Gaia-Hypothese eine ähnliche Sicht dieses Gesamtsystems, und entwickelte es in seiner Zusammenarbeit mit Lynn Margulis weiter. ² Da der terrestrische Film des Lebens, die Biosphäre, hauptsächlich wasserbasiert ist, können wir es als Extension der Hydroosphäre ansehen. ³ Der wesentliche neu dazukommende Faktor der Biosphäre sind die o.g. Musterklassen des Lebens, die sich ebenfalls mit der Sphären-Metapher darstellen lassen:

(Bio-(Oeko- (Semio- (Anthropo- (Ethno- (Noo- Sphäre))))))


² Vernadsky (1997: 16, 31, 32)
³ Gumilev (1987: 23): "All these form a single system in which the key link is water."

Was Spengler (1980: 712-720) in diesem Abschnitt "Das Wesen der Sprache" (712) nennt, läßt sich heute als eine intuitive Beschreibung der Semiosphäre bezeichnen. Z.B.: "Mit dem Menschen darf eine Untersuchung der Sprache

**Lotman's Semiosphere**

Lotman (1990) coined the term *Semiosphere* (here also called *SEMsphere*) for the realm of all mental projections that are intersubjectively shared or exchanged, mainly through language. The SEMsphere is also the world of relations between communicating organisms as viewed from the viewpoint of semiotics. In the following quotation, Lotman refers to the work of Vernadsky as influence to his concept.

Lotman (1990: 123): By analogy with the biosphere, (Vernadsky's concept) we could talk of a semiosphere, which we shall derive as the semiotic space necessary for the existence and functioning of languages, not the sum total of different languages; in a sense the semiosphere has a prior existence and is in constant interaction with languages. In this respect a language is a function, a cluster of semiotic spaces and their boundaries... Outside the semiosphere there can be neither communication, nor language.

The unit of semiosis, the smallest functioning mechanism, is not the separate language but the whole semiotic space of the culture in question. This is the space we term the *semiosphere*. The semiosphere is the result and the condition for the development of culture; we justify our term by analogy with the biosphere, as Vernadsky defined it, namely the totality and the organic whole of living matter and also the condition for the continuation of life.

The next quotation shows that Vernadsky considered the biosphere as a system of societies of living beings in quite the exact sense as Whitehead had expressed it in more philosophical terms in the section before.

Lotman, (1990: 125), [citing Vernadsky on the biosphere]: ... all life-clusters are intimately bound to each other. One cannot exist without the other. This connection between different living films and clusters, and their invariancy, is an age-old feature of the mechanism of the earth's crust, which has existed all through geological time.

The same idea is expressed more clearly again:

The biosphere has a quite definite structure which determines everything without exception that happens in it... A human being observed in nature and all living organisms and every living being is a function of the biosphere in its particular space-time.
http://www.noologie.de/gumilev/ebe4.htm
Ethnogenesis and the Biosphere: Chapter Five

http://www.noologie.de/gumilev/ebe5.htm
Ethnogenesis and the Biosphere: Chapter Six

http://www.noologie.de/gumilev/ebe6a.htm
Ethnogenesis and the Biosphere: Chapter Six, Part 2

http://www.noologie.de/gumilev/ebe6b.htm
Ethnogenesis and the Biosphere: Chapter Six, Part 3

http://www.noologie.de/gumilev/ebe6c.htm
'System' in ethnology.

http://www.noologie.de/gumilev/ebe2a.htm#_Toc351821108
Levels and types of ethnic systems.

http://www.noologie.de/gumilev/ebe2a.htm#_Toc351821109
Self-regulation of an ethnos.

http://www.noologie.de/gumilev/ebe2a.htm#_Toc351821112
When Immortality Is More Terrible Than Death

http://www.noologie.de/gumilev/ebe4.htm#_Toc351823232
Clio vs Kronos.

http://www.noologie.de/gumilev/ebe4.htm#_Toc351823242
The Russian www site of Lev Gumilev

And this extremely important material can still be found there on the Russian www site. Lev Gumilev was one of the most important anthropologists in the whole of the USSR, even if there were so many academic detractors who lamented his flamboyant style, and his somewhat un-conventional approach to the history of man-kind almost world wide. Gumilev was of a better class than the good Oswald Spengler since he had had the occasion to do so much field work while he was in the Gulags. Even if that doesn't sound so nice, there is no better place to learn everything about the not-so-nice sides of Human Nature than when Gumilev was in the Gulags for a couple of years. This is very important field-work for any Anthropologist, I would say.

Because his many academic detractors always thought that it cannot be historically scientific at all, when you don't write it according to the dogma of historical sciences. This means that the historical scientific dogma states that you have to write everything in a very technical jargon, and in the completely obscure and cotton-dry style, as it is the norm especially in Germany. So Gumilev was always quite a bit suspicious for the historical scientific dogma. It didn't help that so many of his students were quite devoted disciples, and they considered Gumilev as a kind of Guru. When you are a Guru for so many disciples, and there were quite many of them, then you are already heavy on the Black List of the Academic Historical Scientific Professors. It cannot be other than that because these are the iron laws of the Academe. In the Western Countries probably more than in Russia, because in all of the universities of the USA and Europe there rules the iron law of Political Correctness. And he who doesn't follow these laws will get publication prohibition, will never get his papers accepted by any high-profile academic publishing house etc. pp. He who doesn't know his/her ways around the present-day laws of Correct Behavior, and Politically Correct thinking and writing, and quoting, will be rigorously exorcised from everything important in Academia. Now it was more or less a blessing in disguise [just another little Neurolinguistic Reframing to make] ... that the good Lev Gumilev had learned in the Gulags something very important down to his bones.

The Survival Knowledge of Lev Gumilev

Since Gumilev had spent so many years in the nice Gulags of Väterchen Stalin, he knew what it means to be able to Double- and Triple- Think. Every halfway intelligent citizen of the USSR during these times of the Bolshevik and Stalinist purges had to learn this, or it was the Death Sentence, by your friendly agents of the Tscheka and the KGB, and then some. And there was no such thing as a legal procedure. If someone thought the "Denunziant" or the Informer, that someone other was a traitor of the Fatherland or of Communism - A single denunciation was all that was needed. And that was the end for this poor soul. Even if the Denunziant only had just a little personal grudge with that other one, like having a dispute about some woman. The nice Bolshevik Fatherland and later the communist USSR had so many secret police and military organizations, starting with Lenin, then Trotzki, and then Väterchen Stalin. And those secret police and other secret organizations were also rivalling each other who would be more efficient in killing as many potential opponents of the regime as was humanly possible. See also the harrowing tales that Peter Sloterdijk wrote in
"Zorn und Zeit". He had a Russian colleague who had studied all this down to the dirtiest details. The henchmen of the regime were so busy that they went out of ammunition quite a few times. Since one needed a special type of ammunition which didn't penetrate the whole skull of the victim on both sides immediately. The preferred method of execution was that the executioner went behind the victim and gave him a shot in the base of the skull, exactly where the spine connects to the skull. In German it is called the "Genickschuss". And the henchmen of the regime were quite proficient and trained at this job. They never missed at all. It was precision work, because there was the Medulla Oblongata. And this meant instant death. Which was "sort of humane" so that the victim didn't suffer too much. As I said above, with ordinary pistol ammunition, the projectile would go right through the skull and that would produce a terrible mess in the execution room. So the henchmen tried to avoid this as much as possible, and they used a special, low power powder charge so that the projectile didn't fly out at the other end of the skull. Because that would make a hole so big that you could put your fist into it. I think there was this story in "Zorn und Zeit" about one such very proficient henchman who had such a stench of death and human cadaver decay odor around him that he couldn't wash it off any more. And he had a German Shepherd dog. And this poor dog tried to flee from this stench, and it crawled under the sofa, because this stench was even unbearable for the poor dog. This was quite a tall story.

**Something in the Context of Lev Gumilev**


The term secret police (or political police)¹ refers to intelligence, security or police agencies that engage in covert operations against a government's political opponents and dissidents. Secret police organizations are characteristic of totalitarian regimes.² Used to protect the political power of an individual dictator or an authoritarian regime, secret police often, but not always, operate outside the law and are used to repress dissidents and weaken the political opposition, frequently with violence, assassinations, and torture.³

**History**

In East Asia, the *jinyiwei* (Embroidered Uniform Guard) of the Ming Dynasty was founded in the 1360s by the Hongwu Emperor and served as the dynasty's secret police until the collapse of Ming rule in 1644. Originally, their main functions were to serve as the emperor's bodyguard and to spy on his subjects and report any plots of rebellion or regicide directly to the emperor. Over time, the organization took on law enforcement and judicial functions and grew to be immensely powerful, with the power to overrule ordinary judicial rulings and to investigate, interrogate, and punish anyone, including members of the imperial family. In 1420, a second secret police organization run by eunuchs, known as the *dongchang* (Eastern Depot), was formed to suppress suspected political opposition to the usurpation of the throne by the Yongle Emperor. Combined, these two organizations made the Ming Dynasty one of the world's first police states.⁴

In Europe, secret police organizations originated in 18th-century Europe after the French Revolution, when such operations were established in an effort to detect any possible conspiracies or revolutionary subversion. The peak of secret-police operations in most of Europe was 1815 to 1860, "when restrictions on voting, assembly, association, unions and the press were so severe in most European countries that opposition groups were forced into conspiratorial activities."⁵ The secret police of the Austrian Empire were particularly notorious during this period.⁵ After 1860, the use of secret police declined due to increasing liberalization, except in autocratic regimes such as the Russian Empire.⁶

In the Russian Empire, the secret police forces were the Third Section of the Imperial Chancery and then the Okhrana. After the Russian Revolution, the Soviet Union established the OGPU, NKVD, NKGB, MVD, and KGB.⁶

In Nazi Germany, the Geheimstaatspolizei (Secret State Police, Gestapo) (1933–1945) was used to eliminate opposition; as part of the Reich Main Security Office, it also was a vital organizer of the Holocaust. Although the Gestapo had a relatively small number membership (32,000 in 1944), "it maximized these small resources through informants and a large number of denunciations from the local population."⁷ After the defeat of the Nazis, the East German secret police, the Stasi, likewise made extensive use of an extensive network of civilian informers.⁸

**Control**

A single secret service may pose a potential threat to the central political authority. Political scientist Sheena Chestnut Greitens writes that: "When it comes to their security forces, autocrats face a fundamental ‘coercing dilemma between empowerment and control. … Autocrats must empower their security forces with enough coercing capacity to enforce internal order and conduct external defense. Equal important to their survival, however, they must control that capacity, to ensure it is not turned against them."⁹ Authoritarian regimes therefore attempt to engage in "coup-proofing" (designing institutions to minimize risks of a coup). Two methods of doing so are increasing fragmentation (i.e., dividing powers among the regime security apparatus to prevent "any single agency from amassing enough political power to carry out a coup") and increasing exclusivity (i.e., purging the regime security apparatus to favor familial, social, or ethnic groups perceived as more loyal).¹⁰

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¹[Secret police](https://en.wikipedia.org/wiki/Secret_police)

²[Totalitarian regimes](https://en.wikipedia.org/wiki/Totalitarian_regime)

³[Political power](https://en.wikipedia.org/wiki/Political_power)

⁴[Autocratic regimes](https://en.wikipedia.org/wiki/Autocratic_regime)

⁵[In East Asia](https://en.wikipedia.org/wiki/East_Asia)

⁶[In Europe](https://en.wikipedia.org/wiki/Europe)

⁷[In Nazi Germany](https://en.wikipedia.org/wiki/Nazi_Germany)

⁸[In the Russian Empire](https://en.wikipedia.org/wiki/Russia)


¹⁰[Authoritarian regimes](https://en.wikipedia.org/wiki/Authoritarian_regime)
Some Battles of Greeks and Romans against the Persians

AG: We all know about the battles of the Greeks against the Persians like the battle of the Thermopylae, and the sea battle of Salamis. But very much less is known about the wars that the Romans led against the Persians, and lo and behold, they could never conquer them. And this is quite something to think of, because the Romans could not duplicate the successes of Alexander the Great, even if they had been able to defeat the Sarissa forces of the Macedonians decisively. Even the mighty Roman Army was not able to break the mighty Persian Empire even after it had been defeated by Alexander the Great in the years around 330 BCE. Persia or Parthia rose again to unprecedented heights around the first centuries CE. And the Romans were defeated a few times very bitterly such that even one Roman Emperor who had led his Legions against Parthia or Persia was made a slave and had to serve as footstool for the Parthian / Persian King. Such were the bitter defeats of the Romans against the Parthians. In the following section I will give some food for thought by Lev Gumilev, who was one of the Greatest Story Tellers in the whole history of the business of historians. And he was really unsurpassed in his skill of Story-Telling and these were very enlightened stories. This was the Russian side of his daimonos, the stories of the Baba Jaga of which I have made some reference. This is the typical Russian ability to tell tall stories, like Tolstoi and Dostojevski, and some others, who were masters in the age-old heritage of telling Fairy tales but with a very deep Psycho-Historical Background. And this art had been long lost to the Western Europeans and Americans, who had already been converted to perfectly one-track thinking Neuro-Robotons. The German School of Idealism according to Hegel is one prime example of this. The only one in German Philosophical history who could out-think this was Nietzsche, and his somewhat ideal, Hölderlin. And consequently enough, Nietzsche followed his ideal of Hölderlin by becoming mad himself. I have written quite a lot about the fate and the psychology of Nietzsche, especially about the pitfalls of his kind of philosophy. So no need to re-tell all those well-known stories here.

Lev Gumilev and The Empires of Persia

This is the Russian www where all the materials on and by Gumilev can be found. Gumilev, Lev: "Ethnogenesis and the Biosphere", Progress, Moscow (1990).
http://gumilevica.kulichki.net/English/ebe.htm
Searches for an Imaginary Kingdom: The Legend of the Kingdom of Prester John
http://gumilevica.kulichki.net/English/sik.htm
http://gumilevica.kulichki.net/English/
http://gumilevica.kulichki.net/English/biography.htm
http://gumilevica.kulichki.net/English/bibliography.htm
https://www.cambridge.org/fr/academic/subjects/history/european-history-1000-1450/searches-imaginary-kingdom-legend-kingdom-prester-john?format=PB&isbn=9780521108799
http://gumilevica.kulichki.net/English/maps.htm#HPH
http://gumilevica.kulichki.net/English/Article01.htm

Fortunately, the copyright hunters of the Matrix will not be so successful in Russia as they are or will be really soon now, in the Western EU. I daresay that in about 1 year or 2 or so, in the whole of the EU www at large, all interesting material and all interesting youtube videos will be purged out of existence and of course out of Political and Moral Correctness. So we can be quite lucky that there are a few interesting www-sites in Russia that cannot be purged by the copyright hunters of the Matrix. The Russians couldn't care less about copyright. In this they still are very copy-left-ist. Communism may be gone or not, this doesn't interest anyone at all. The Russians are quite well the world-class experts in circumventing any censure which anyone may concoct. This is a very valuable lesson that the Russians had learned in so many about 70++ years of oppression by Bolshevism and Communism. Lenin, Trotzky and Stalin were just so good teachers. And the Russians had built up something like an immunity against Brain Washing and Propaganda. The favorite newspaper of the
Russians in the Soviet era was the Prawda or Pravda. This literally means "Truth". And it really was. And this is no joke.

**The Spy vs. Spy Game in Soviet Russia**

The expert Russians could read the Pravda every page, and they were able to double- and triple-think everything that the Communist Party Political Supervisors of the Pravda tried to hide and distort. But where there is a Spy, there is a Counter-Spy. And the Editors and Journalists who produced the Pravda managed to hide the contents that they wanted to convey, in the plain sight of the Communist Party Political Supervisors. There are a few coding methods that only some very good spy-masters were able to produce. Like Anagram, Steganography, and 2-D word code stencils.

**The Business of Coding and Code Breaking of English Renaissance Mystics**


Elizabeth I (7 September 1533 – 24 March 1603) was Queen of England and Ireland from 17 November 1558 until her death on 24 March 1603. Sometimes called The Virgin Queen, Gloriana or Good Queen Bess, Elizabeth was the last of the five monarchs of the House of Tudor.

Elizabeth was the daughter of Henry VIII and Anne Boleyn, his second wife, who was executed two-and-a-half years after Elizabeth's birth. Anne's marriage to Henry VIII was annulled, and Elizabeth was declared illegitimate. Her half-brother, Edward VI, ruled until his death in 1553, bequeathing the crown to Lady Jane Grey and ignoring the claims of his two half-sisters, Elizabeth and the Roman Catholic Mary, in spite of statute law to the contrary. Edward's will was set aside and Mary became queen, depositing Lady Jane Grey. During Mary's reign, Elizabeth was imprisoned for nearly a year on suspicion of supporting Protestant rebels. In 1558 upon Mary's death, Elizabeth succeeded her half-sister to the throne and set out to rule by good counsel. She depended heavily on a group of trusted advisers, led by William Cecil, 1st Baron Burghley. One of her first actions as queen was the establishment of an English Protestant church, of which she became the Supreme Governor. This Elizabethan Religious Settlement was to evolve into the Church of England.

It was expected that Elizabeth would marry and produce an heir; however, despite numerous courtships, she never did. She was eventually succeeded by her first cousin twice removed, James VI of Scotland. She had earlier been responsible for the imprisonment and execution of James's mother, Mary, Queen of Scots.

https://blog.degruyter.com/cryptography-decoding-mathematics-secret-messages/
https://www.garykessler.net/library/crypto.html
https://en.wikipedia.org/wiki/Classical_cipher

David Kahn notes in *The Codebreakers* that modern cryptography originated among the Arabs, the first people to systematically document cryptanalytic methods. Al-Khalil (717–786) wrote the *Book of Cryptographic Messages*, which contains the first use of permutations and combinations to list all possible Arabic words with and without vowels. The invention of the frequency analysis technique for breaking monoalphabetic substitution ciphers, by Al-Kindi, an Arab mathematician sometime around AD 800, proved to be the single most significant cryptanalytic advance until World War II. Al-Kindi wrote a book on cryptography entitled *Risalah fi Istikhraj al-Mu'amma* (*Manuscript for the Deciphering Cryptographic Messages*), in which he described the first cryptanalytic techniques, including some for polyalphabetic ciphers, cipher classification, Arabic phonetics and syntax, and most importantly, gave the first descriptions on frequency analysis. He also covered methods of encipherments, cryptanalysis of certain encipherments, and statistical analysis of letters and letter combinations in Arabic. An important contribution of Ibn Adlan (1187–1268) was on sample size for use of frequency analysis.

In early medieval England between the years 800-1100, substitution ciphers were frequently used by scribes as a playful and clever way encipher notes, solutions to riddles, and colophons. The ciphers tend to be fairly straightforward, but sometimes they deviate from an ordinary pattern, adding to their complexity and, possibly, to their sophistication as well. This period saw vital and significant cryptographic experimentation in the West. Essentially all ciphers remained vulnerable to the cryptanalytic technique of frequency analysis until the development of the polyalphabetic cipher, and many remained so thereafter. The polyalphabetic cipher was most clearly explained by Leon Battista Alberti around the year AD 1467, for which he was called the "Father of Western cryptology." Johannes Trithemius, in his work *Poligraphia*, invented the tabula recta, a critical component of the Vigenère cipher. Trithemius also wrote the *Steganographia*. The French cryptographer Blaise de Vigenère devised a practical polyalphabetic system which bears his name, the Vigenère cipher. Cryptography, cryptanalysis, and secret-agent/courier betrayal featured in the Babington plot during the reign of Queen Elizabeth I which led to the execution of Mary, Queen of Scots. Robert Hooke suggested in the
chapter Of Dr. Dee's Book of Spirits, that John Dee made use of Trithemian steganography, to conceal his communication with Queen Elizabeth I.[22] The chief cryptographer of King Louis XIV of France was Antoine Rossignol and he and his family created what is known as the Great Cipher because it remained unsolved from its initial use until 1890, when French military cryptanalyst, Étienne Bazeries solved it.[23] An encrypted message from the time of the Man in the Iron Mask (decrypted just prior to 1900 by Étienne Bazeries) has shed some, regrettably non-definitive, light on the identity of that real, if legendary and unfortunate, prisoner.

Outside of Europe, after the Mongols brought about the end of the Islamic Golden Age, cryptography remained comparatively undeveloped. Cryptography in Japan seems not to have been used until about 1510, and advanced techniques were not known until after the opening of the country to the West beginning in the 1860s.

In World War I the Admiralty's Room 40 broke German naval codes and played an important role in several naval engagements during the war, notably in detecting major German sorties into the North Sea that led to the battles of Dogger Bank and Jutland as the British fleet was sent out to intercept them. However its most important contribution was probably in decrypting the Zimmermann Telegram, a cable from the German Foreign Office sent via Washington to its ambassador Heinrich von Eckardt in Mexico which played a major part in bringing the United States into the war.

Encrypting methods in the days of Elizabeth I

The elaborate Encrypting methods that were invented by the English in the days of Elizabeth I and the Great Armada helped them quite a bit to win that war. And at those times there had been some good code-producers and some code-breakers around in England. So we can even put the Warburg Library to good use, since those were the very same people who are portrayed in the works of the Dame Frances Yates. The Renaissance Mystics and Neo-Platonists surely knew their ways around some codes and encryptions. The Jewish Kabbalah encryption system had probably been the most studied and puzzled about of them all. So every Renaissance Mystic invented his own method of decryption of the Kabbalah. And of course the Grand Master of all this was the good Giordano Bruno. And his master piece was "La Cena Delle Ceneri" or the Ash Wednesday Supper. I have enlarged a little bit about this work somewhere in this text.

The Numerical Values of the Kabbalah letters

I give just a little warning about the numerical values of the Kabbalah letters. This is a problem for the poor modern Kabbalist's like the nice Madonna, who also likes to do some Kabbalah. For every first semester student of ancient number systems one thing is immediately clear. The ancient Hebrews who went to Babylon, which was the place where the Bible also was the first time written down, and became a codex. ... They just did some plagiarizing of the very very ancient Babylonian Archaeo-Astronomy and -Astrology. This dates back around 7000 years, as I know from my studies of the very ancient deep structures long before Civilization even began. So the good Hebrews of ancient Babylon did same plagiarizing of this ancient Babylonian science. And for those people the decimal system had just not been invented yet. They did all their calculations in the Hexagesimal System. And there is good material to be found on this because there was also the Indian Vedic science of Archaeo-Astronomy and -Astrology. So the poor modern Kabbalists who try to do the Kabbalah in decimal, are totally out of luck. And on top of this, a Kabbalist must by needs also be an accomplished Talmudist. This is because the Semantic Root structures lie deep behind the ancient Aramaic (and not so much in Hebrew, which was invented much later). So when one doesn't know his/her way around all these things, one cannot do the Kabbalah at all. And as we all know, doing Talmud studies necessitates at least 7-10 years of concentrated studying, so that one has no time at all except some eating a little bit and then sleeping a little bit. Studying the Talmud is not for the faint-hearted. So you can't get the Talmud and the Kabbalah in some evening seminars for around $$$ 1000 a pop. Even not for the nice Madonna. And I know that Giordano Bruno talked quite a bit about the Kabbalah, but I don't know how deeply he could descend in the Underground of Hebrew Talmudic Thought. Quite surely the earlier Renaissance Mystics like Marsilio Ficino and Picco della Mirandola must have had some expert Jewish connections. Just by the way, Platon mentions in the Timaios explicity that the lecturer Timaios had studied astronomy in Babylon. And this is the only "dialog" in the whole of all the works of Platon where it is not Sokarates who does all the talking, but here it is Timaios.

https://de.wikipedia.org/wiki/Timaios
http://www.noologie.de/plato.htm
http://www.noologie.de/infra09.htm

The wikipedia apparently doesn't know Hexagesimal as it calls it the Sexagesimal.

https://en.wikipedia.org/wiki/Hexadecimal
Sexagesimal (base 60) is a numeral system with sixty as its base. It originated with the ancient Sumerians in the 3rd millennium BC, was passed down to the ancient Babylonians, and is still used—in a modified form—for measuring time, angles, and geographic coordinates.

The number 60, a superior highly composite number, has twelve factors, namely 1, 2, 3, 4, 5, 6, 10, 12, 15, 20, 30, and 60, of which 2, 3, and 5 are prime numbers. With so many factors, many fractions involving sexagesimal numbers are simplified. For example, one hour can be divided evenly into sections of 30 minutes, 20 minutes, 15 minutes, 12 minutes, 10 minutes, 6 minutes, 5 minutes, 4 minutes, 3 minutes, 2 minutes, and 1 minute. 60 is the smallest number that is divisible by every number from 1 to 6; that is, it is the lowest common multiple of 1, 2, 3, 4, 5, and 6.

In this article, all sexagesimal digits are represented as decimal numbers, except where otherwise noted. For example, 10 means the number ten and 60 means the number sixty.

It is possible for people to count on their fingers to 12 using one hand only, with the thumb pointing to each finger bone on the four fingers in turn. A traditional counting system still in use in many regions of Asia works in this way, and could help to explain the occurrence of numeral systems based on 12 and 60 besides those based on 10, 20 and 5. In this system, one hand counts repeatedly to 12, displaying the number of iterations on the other, until five dozens, i. e. the 60, are full.[3][4]

According to Otto Neugebauer, the origins of sexagesimal are not as simple, consistent, or singular in time as they are often portrayed. Throughout their many centuries of use, which continues today for specialized topics such as time, angles, and astronomical coordinate systems, sexagesimal notations have always contained a strong undercurrent of decimal notation, such as in how sexagesimal digits are written. Their use has also always included (and continues to include) inconsistencies in where and how various bases are to represent numbers even within a single text.[3]

The most powerful driver for rigorous, fully self-consistent use of sexagesimal has always been its mathematical advantages for writing and calculating fractions. In ancient texts this shows up in the fact that sexagesimal is used most uniformly and consistently in mathematical tables of data.[3] Another practical factor that helped expand the use of sexagesimal in the past even if less consistently than in mathematical tables, was its decided advantages to merchants and buyers for making everyday financial transactions easier when they involved bargaining for and dividing up larger quantities of goods. The early shekel in particular was one-sixtieth of a mana,[3] though the Greeks later coerced this relationship into the more base-10 compatible ratio of a shekel being one-fiftieth of a mina.

Apart from mathematical tables, the inconsistencies in how numbers were represented within most texts extended all the way down to the most basic Cuneiform symbols used to represent numeric quantities.[1] For example, the Cuneiform symbol for 1 was an ellipse made by applying the rounded end of the stylus at an angle to the clay, while the sexagesimal symbol for 60 was a larger oval or "big 1". But within the same texts in which these symbols were used, the number 10 was represented as a circle made by applying the round end of the style perpendicular to the clay, and a larger circle or "big 10" was used to represent 100. Such multi-base numeric quantity symbols could be mixed with each other and with abbreviations, even within a single number. The details and even the magnitudes implied (since zero was not used consistently) were idiomatic to the particular time periods, cultures, and quantities or concepts being represented. While such context-dependent representations of numeric quantities are easy to critique in retrospect, in modern time we still have "dozens" of regularly used examples (some quite "gross") of topic-dependent base mixing, including the particularly ironic recent innovation of adding decimal fractions to sexagesimal astronomical coordinates.[3]

https://de.wikipedia.org/wiki/Hertha_von_Dechend
https://en.wikipedia.org/wiki/Hamlet%27s_Mill
https://www.frobenius-institut.de/en/
https://www.per-aspera-ad-astra.net/index.html
Ernest G. McClain: The Myth of Invariance. This gives us some decoding methods.
https://ernestmcclain.files.wordpress.com/2017/05/mythsofinvariance_sanscartoonsoptimized.pdf
http://adsabs.harvard.edu/full/2003JHA....34...79I

Babylonian Astronomy
https://en.wikipedia.org/wiki/Babylonian_astronomy

Babylonian astronomy was the study or recording of celestial objects during early history Mesopotamia (a historical event in Babylonian astronomy) These records can be found on Sumerian clay tablets, inscribed in cuneiform, dated approximately to 3500–3200 BC.[1]

In conjunction with their mythology, the Sumerians developed a form of astronomy/astrology that had an influence on Babylonian culture. Therein Planetary gods played an important role.
Babylonian astronomy seemed to have focused on a select group of stars and constellations known as Ziqqu stars.[2] These constellations may have been collected from various earlier sources. The earliest catalogue, Three Stars Each, mentions stars of the Akkadian Empire, of Amurru, of Elam and others.[3]

A numbering system based on sixty was used, a sexagesimal system. This system simplified the calculating and recording of unusually great and small numbers. The modern practices of dividing a circle into 360 degrees, of 60 minutes each, began with the Sumerians.[4]

During the 8th and 7th centuries BC, Babylonian astronomers developed a new empirical approach to astronomy. They began studying and recording their belief system and philosophies dealing with an ideal nature of the universe and began employing an internal logic within their predictive planetary systems. This was an important contribution to astronomy and the philosophy of science, and some modern scholars have thus referred to this novel approach as the first scientific revolution.[5] This approach to astronomy was adopted and further developed in Greek and Hellenistic astrology. Classical Greek and Latin sources frequently use the term Chaldean for the astronomers of Mesopotamia, who were considered as priest-scribes specializing in astrology and other forms of divination.

The connection between a calendar, mathematics, and astronomy

The exploration of the Sun, Moon, and other celestial bodies affected the development of Mesopotamian culture. The study of the sky led to the development of a calendar and advanced mathematics in these societies. The Babylonians were not the first complex society to develop a calendar globally and in nearby North Africa, The Egyptians developed a calendar of their own. The Egyptian calendar was solar based, while the Babylonian calendar was lunar based. A potential blend between the two that has been noted by some historians is the adoption of a crude leap year by the Babylonians after the Egyptians developed one. The Babylonian leap year shares no similarities with the leap year practiced today. It involved the addition of a thirteenth month as a means to re-calibrate the calendar to better match the growing season.[6][7]

Babylonian priests were the ones responsible for developing new forms of mathematics and did so to better calculate the movements of celestial bodies. One such priest, Nabu-rimanni, is the first documented Babylonian astronomer. He was a priest for the moon god and is credited with writing lunar and eclipse computation tables as well as other elaborate mathematical calculations. The computation tables are organized in seventeen or eighteen tables that document the orbiting speeds of planets and the Moon. His work was later recounted by astronomers during the Seleucid dynasty.[27]

Arithmetical and geometrical methods

Though there is a lack of surviving material on Babylonian planetary theory,[6] it appears most of the Chaldean astronomers were concerned mainly with ephemerides and not with theory. It had been thought that most of the predictive Babylonian planetary models that have survived were usually strictly empirical and arithmetical, and usually did not involve geometry, cosmology, or speculative philosophy like that of the later Hellenistic models,[29] though the Babylonian astronomers were concerned with the philosophy dealing with the ideal nature of the early universe.[5] Babylonian procedure texts describe, and ephemerides employ, arithmetical procedures to compute the time and place of significant astronomical events.[30] More recent analysis of previously unpublished cuneiform tablets in the British Museum, dated between 350 and 50 BC, demonstrates that Babylonian astronomers sometimes used geometrical methods, prefiguring the methods of the Oxford Calculators, to describe the motion of Jupiter over time in an abstract mathematical space.[31][32] In contrast to Greek astronomy which was dependent upon cosmology, Babylonian astronomy was independent from cosmology.[18] Whereas Greek astronomers expressed "prejudice in favor of circles or spheres rotating with uniform motion", such a preference did not exist for Babylonian astronomers, for whom uniform circular motion was never a requirement for planetary orbits.[31] There is no evidence that the celestial bodies moved in uniform circular motion, or along celestial spheres, in Babylonian astronomy.[34]

Contributions made by the Chaldean astronomers during this period include the discovery of eclipse cycles and saros cycles, and many accurate astronomical observations. For example, they observed that the Sun’s motion along the ecliptic was not uniform, though they were unaware of why this was; it is today known that this is due to the Earth moving in an elliptic orbit around the Sun, with the Earth moving swifter when it is nearer to the Sun at perihelion and moving slower when it is farther away at aphelion.[35] Chaldean astronomers known to have followed this model include Naburimmannu (fl. 6th–3rd century BC), Kidinu (d. 330 BC), Berossus (3rd century BCE), and Sudines (fl. 240 BCE). They are known to have had a significant influence on the Greek astronomer Hipparchus and the Egyptian astronomer Ptolemy, as well as other Hellenistic astronomers.

**Babylonian Astronomy and the 60-er Number System**

Back to the Renaissance Mystics and the Warburg Library, where all those books can be found, that Aby Warburg had collected. And there were some very rare works that are pretty hard to find anywhere else on Earth. Now this is not so difficult as it may seem at first. Because when you have a virtual Planetarium on your Personal Computer, you can look up all those ancient star mysteries of the wandering of the star system in the Equinoctial Precession, right on your computer. There are enough Astronomical Computer Programs.
around. These things have become so much easier since the days of Aby Warburg and Hertha v. Dechend. You don't need all those voluminous tables any more, since you can get the Astronomy in a program. And I suppose there are also programs that can do the Hexagesimal number system in and out. Because calculating in Hexagesimals makes a lot of sense for Astronomical Calculations and makes them a lot easier than in Decimal. This is because of the multiplication factor of the base number 12, which is not only there for the 12 disciples of Jesus, but also for the 12 hours of the day, and the 12 Zodiac star signs and then some more. It is quite convenient when you just multiply 12 by 5, and you get 60. This is called the factoring method.

http://www.noologie.de/aby.htm
http://www.noologie.de/aby.pdf
https://www.purplemath.com/modules/fact numb.htm
https://en.wikipedia.org/wiki/Integer_factor ization
https://www.calculator.net/factor-calculator.html
https://en.wikipedia.org/wiki/Babylonian_astronomy#The_Connection_Between_a_Calendar,_Mathematics,and_Astronomy

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Stencil Encoding

And since I know many of the works of the Warburg Library myself, I can Double- and Triple- Think my own way around them. So this is a nice side effect when you study Renaissance Mysticism and you suddenly end up with some very valuable material about Crypting and De-Crypting Methods. Now we get to the encoding method and how it works. I just call it Stencil Encoding, since I don't know the right keyword to look it up in the Google. And you take a sheet of the size of the letter that you are writing, a sort of stencil with some appropriate holes in it, where about 10 to 20 words would fit in. So then you write your secret message into those holes, and then you write a very lengthy letter around these holes. Like what you tell your dear Mother-in-law what you did this day or another, like you were just an English Tourist on his Grand Tour but this time in the Spanish and Portuguese harbors, where the Great Armada was just preparing their expedition to conquer England. You have to be a little inventive since you have to write at least 15 pages of useless letter where you can hide your code words. I don't even know the English word for such an encoding, so I cannot search for it in the Google directly. And then there is a double encoding. Because when you say "ships" and "guns" and "tonnage" and "soldiers" in your innocent letter to your dear mother-in-law, there would be some "raising of eyebrows" as it is said colloquially. And the good Code Breakers of the Secret Police at the court of the King of Spain, they would surely get an idea that something else was going on in that letter. So you make a second layer of the coding, and you write: Piss Pots for "Ships", Farts for "Guns" and Mouse for "Guardians" and Cats for "Soldiers". Or something like that. So the English were very inventive at those things and they could out-smart the smartest Spaniards. (Because the Spaniards had just thrown out all the Jews from their country. And the Jews would have been smart enough, since the Talmudists were of course also experts of the Kabbalah). So it happens when you throw out the smartest minds of your country. You will have to pay the price, in blood. Same procedure in Nazi Germany. When all the smartest Jews were gone, all you had left was some mediocre German "Geisteswissenschaftler". And after the WWII, those mediocre German
"Geisteswissenschaftler" went on to form the Renovated German University System with all the Nazis expelled from the system, and the rest were some even more very mediocre German "Geisteswissenschaftler's". Now when a professor who is mediocre, gives a dissertation to a student who is also very mediocre... I think that I think that one can think the rest of the story just by oneself. It is quite similar to the GIGO principle in Computer Science. Garbage in Garbage out. But this time it was more like mediocre in, mediocre out. And thus it came to pass that after the WWII no US or UK humanities "Gelehrter" like scholar or so... Never bothered to quote any work at all that came out of the German Akademik System. The German Geisteswissenschaften was ruined forever and in all eternity. Lo and behold, when you think they had really reached the bottom of the pit, they just started to dig deeper. I have some professor friends who cry their hearts out when they tell me of the dire fate that has befallen the German Akademie System. Because it is just such a good story to tell, I have preserved some of the bickerings and emotional fall-outs that the poor German Intelligenzia (or better call it Demenzia) had with the good Professor Sloterdijk. Because Sloterdijk was (or is) quite a different caliber than all the rest of them. And the only people on the whole face of the Earth who didn't notice anything about this, were of course, the Germans. I sometimes wonder what would happen if some joker would publish an article like the famous Sokal Joke in a German Geisteswissenschaften journal. I am absolutely sure that no-one would have noticed at all, and if some-one had indeed noticed it, he would do better and keep his mouth shut. Because otherwise he would also be a persona non grata in the Akademik Establishment. In Germany one hates the Whistle Blower even more than in the USA. I think that is just a continuation of the "Denunziant" or Informer of the happy Nazi Gestapo times and the equally happy Stasi times. And a "Denunziant" is always confused with a Whistle Blower.

I have just one more very bad joke up my sleeve:
What do you call this behavior, when there is a dog that doesn't have a tail any more, but it still continues to chase it. ???

If you correctly guess the answer you will get an A++ for creative thinking.

The Sokal Affair, or the Sokal Hoax

https://en.wikipedia.org/wiki/Sokal_affair

The Sokal affair, also called the Sokal hoax,[9] was a scholarly publishing sting perpetrated by Alan Sokal, a physics professor at New York University and University College London. In 1996, Sokal submitted an article to Social Text, an academic journal of postmodern cultural studies. The submission was an experiment to test the journal's intellectual rigor and, specifically, to investigate whether "a leading North American journal of cultural studies—whose editorial collective includes such luminaries as Fredric Jameson and Andrew Ross—[would] publish an article liberally salted with nonsense if (a) it sounded good and (b) it flattered the editors' ideological preconceptions".[10]

The article, "Transgressing the Boundaries: Towards a Transformative Hermeneutics of Quantum Gravity",[11] was published in the Social Textspring/summer 1996 "Science Wars" issue. It proposed that quantum gravity is a social and linguistic construct. At that time, the journal did not practice academic peer review and it did not submit the article for outside expert review by a physicist.[12] Three weeks after its publication in May 1996, Sokal revealed in Lingua Franca that the article was a hoax.[13]

The hoax sparked a debate about the scholarly merit of commentary on the physical sciences by those in the humanities; the influence of postmodern philosophy on social disciplines in general; academic ethics, including whether Sokal was wrong to deceive the editors and readers of Social Text; and whether Social Text had exercised appropriate intellectual rigor.

Sokal reasoned that if the presumption of editorial laziness was correct, the nonsensical content of his article would be irrelevant to whether the editors would publish it. What would matter would be ideologic obsequiousness, fawning references to deconstructionist writers, and sufficient quantities of the appropriate jargon. Writing after the article was published and the hoax revealed, he stated: The results of my little experiment demonstrate, at the very least, that some fashionable sectors of the American academic Left have been getting intellectually lazy. The editors of Social Text liked my article because they liked its conclusion: that "the content and methodology of postmodern science provide powerful intellectual support for the progressive political project" [sec. 6]. They apparently felt no need to analyze the quality of the evidence, the cogency of the arguments, or even the relevance of the arguments to the purported conclusion.[16]
Forensic Pictures of the Result of Gunshot Suicides

Spoiler Alert!

Spoiler Alert! I don't want to spoil anyone's fun, but this text here contains some material which some people may find Offensive, Disgusting, Grossed out, and even Politically Incorrect.

But this is Anthropological Material. And as an Anthropologist, who cannot take such kind of Material, one should better look for another kind of job, like an Accountant.

You have been warned!
Any further Reading here is wholly on your Own Responsibility!!!
I just have some second thoughts about the Stalinist Purges, and the gunshot executions. In the USA, suicide by gun is a preferred method, especially for men who are gun lovers. Perhaps one has (n)ever seen some forensic pictures of the results of botched gunshot suicides in the USA, and there are quite a lot of them, and I have seen my share of them. Because you just take a shotgun, put it to your mouth, and then Kaboom. But there were even some morons who missed the shot and I have no idea how they could miss at about 5 centimeters distance. The head shot was the preferred method of suicide that Ernest Hemingway (almost always) used. He used a shotgun just to make sure. The one thing I was always puzzled about is: A shotgun is quite long, so you will have a hard time when you want to pull the trigger because your arm doesn't reach that far. But maybe he used a broomstick to improvise. The good Ernest Hemingway always had a keen sense for drama, even when he committed suicide. I would not have liked to be his cleaning maid, to klar up the mess that he produced. He must have shot most of his head away. A shotgun is no toy for children to play with. https://www.artofmanliness.com/articles/why-ernest-hemingway-committed-suicide/ Suicide always leaves the question of “Why?” in its wake, and this is especially true when the person who commits the act seemingly has so much to live for.

Such is the case of Ernest Hemingway. As his friend, A. E. Hotchner wondered, why would someone “whom many critics call the greatest writer of his century, a man who had a zest for life and adventure as big as his genius, a winner of the Nobel Prize and the Pulitzer Prize, a soldier of fortune with a home in Idaho’s Sawtooth Mountains, where he hunted in the winter, an apartment in New York, a specially rigged yacht to fish the Gulf Stream, an available apartment at the Ritz in Paris and the Gritti in Venice, a solid marriage . . . good friends everywhere . . . put a shotgun to his head and [kill] himself”?

While an answer to this kind of question can never be offered with any certainty, given the complexity of mental health, and the time that has passed, there are several plausible possible explanations.

What we do know is that at the end of his life, Ernest Hemingway was suffering in mind, and likely in body as well. Over the course of his life he had weathered malaria, dysentery, skin cancer, high blood pressure, and high cholesterol, and these maladies had taken their toll. Additionally, he had suffered six serious, essentially untreated concussions (two within back-to-back years), which left him with headaches, mental fogginess, ringing in his ears, and very likely a traumatic brain injury. Several years before his suicide, he was almost killed in two separate plane crashes, in two days, which ruptured his liver, spleen, and kidneys, sprained several limbs, dislocated his shoulder, crushed vertebra, left first degrees burns over much of his body, and cracked his skull, giving him one of the aforementioned concussions (this one so severe that cerebral fluid seeped out of his ear). He was in constant pain for a long time afterwards, which he dealt with by drinking even more heavily than he usually did.

The results of the suicide by shotgun look pretty much like my favorite works of art by Hermann Nitsch. Since one usually leans against a wall, so that performing the suicide will be a little more stable. When you miss, you will be out of luck entirely.

http://www.nitsch.org/
http://www.nitsch.org/malaktionen/
http://www.nitsch.org/biografie/
http://www.nitsch.org/aboutactions/
https://www.br.de/mediathek/video/werkschau-hermann-nitsch-rituelle-kunst-in-ingolstadt-av:5c90d04d62289a001342c3cd
https://www.youtube.com/watch?v=i07MePe6yMA
https://www.youtube.com/watch?v=LrALo-R3eAg

Face Transplantation

Face transplant: These are some quite nice photos of Face transplantations. Even with pre-op and post-op photos. The doctors are quite proud of their successes. So they put the photos on the www, to make some advertisement of their skills. This is not for the faint-hearted! You have been warned. You do this entirely on your own responsibility! If you have night-mares, please don't complain to me. I haven't forced you to look at those photos. Too bad. As I say it again and again. When one wants to be a true Anthropologist, one must have a professional attitude about these photos. Or otherwise one will be a quite incompetent Anthropologist. And the medical schools do everything they can to harden their students to such views. A doctor must keep his/her cool even with such sights. And when one looks at them in the flesh... a doctor should not faint when looking at the scene in Real Life. In other countries the doctors are not so shy. When one goes to some Korean www-sites, one will see some even more grisly photos. But I will spare the poor reader even more harrowing photos.

67
The following nice youtube video is of someone who had tried to commit suicide by gun. So this is it when one does a near miss. I have no idea how that poor guy could miss, when one just has to hold the gun (I mean a pistol, not a rifle) to the mouth and pull the trigger. As I said above to kill yourself the Hitler way, one needs to take the gun in the mouth and direct it at about an angle of 45 degrees upwards to the back of the mouth. Then one pulls the trigger. Kaboom!

The following photo is about a french woman who was so drugged out of her mind for a few days, and she had a little pet dog, and it was just quite a little dog, and after a day or two the dog was hungry. And the poor woman lay on the floor, drugged out. So the poor hungry dog just started to chew its way where it was softest, of the woman's flesh. And that was her mouth. So when the woman finally woke up from her coma, she wanted to smoke a cigarette. Then she realized that she had no mouth any more. The dog had eaten it. Fortunately for our good night's sleep the good French doctors omitted the photo what she looked like before the transplantation surgery.
Appendix VII: The Meta-Morphology of Evil Empires
I give this as a side tour since the main text of Project Hagia Sophia is too large to fit it in there.

The Rise and Fall of the Klingon Empire
This may seem like a joke at first sight, but it isn't at all. Here I do a little Meta-Morphology of the Deep History of some Empires which were a special sort of Empires of a Warrior Elite Class. Most Empires of Antiquity were of this sort. Only in European history there arose an Empire of the Merchant Class, as was the case with the Netherlands Economical Empire, and the Dutch East India Company which was founded in 1602. (Dutch: Verenigde Oostindische Compagnie or VOC). It was the first-ever multinational corporation. And the British's emulated this success story with a few improvements here and there. So back to the history of Empires. Most Empires of humanity were of the type "Warrior Elite Class". And Gene Roddenberry knew his way around many things in the business of history and technology. So he modeled the Klingon Empire to closely resemble the Spartan and Roman ways of Politics and Power. The Klingon Empire was just a way of Gene Roddenberry to think the "What If". Meaning what if the Spartans had managed to form a Real Empire, which in the history they were never able to do. The reason for this is their method of a slave holding society which was quite without parallel even in all the slave holding societies of Antiquity. The usual case was that one imported his slaves from some far (or even near) away other populations of defeated enemies. But the Spartans did it the other way around. They had enslaved the local autochthonous population of their territory to keep as self-reproducing slaves, which was more of a feat than the other slave-holders. And they based their society structure around this.

Gene Roddenberry

Eugene Wesley Roddenberry (August 19, 1921 – October 24, 1991) was an American television screenwriter, producer and creator of the original Star Trek television series, and its first spin-off The Next Generation. Born in El Paso, Texas, Roddenberry grew up in Los Angeles, where his father was a police officer. Roddenberry flew 89 combat missions in the Army Air Forces during World War II, and worked as a commercial pilot after the war. Later, he followed in his father's footsteps and joined the Los Angeles Police Department, where he also began to write scripts for television.

When Roddenberry pitched Star Trek to MGM, it was warmly received, but no offer was made. [49] He then went to Desilu Productions, but rather than being offered a one-script deal, he was hired as a producer and allowed to work on his own projects. His first was a half-hour pilot called Police Story (not to be confused with the anthology series created by Joseph Wambaugh), which was not picked up by the networks. [50] Having not sold a pilot in five years, Desilu was having financial difficulties; its only success was I Love Lucy. [51] Roddenberry took the Star Trek idea to Oscar Katz, head of programming, and the duo immediately started work on a plan to sell the series to the networks. They took it to CBS, which ultimately passed on it. The duo later learned that CBS had been eager to find out about Star Trek because it had a science fiction series in development—Lost in Space. Roddenberry and Katz next took the idea to Mort Werner at NBC, [52] this time downplaying the science fiction elements and highlighting the links to Gunsmoke and Wagon Train. [53] The network funded three story ideas, and selected "The Menagerie", which was later known as "The Cage", to be made into a pilot. (The other two later became episodes of the series.) While most of the money for the pilot came from NBC, the remaining costs were covered by Desilu. [54][55] Roddenberry hired Dorothy Fontana, better known as D. C. Fontana, as his assistant. They had worked together previously on The Lieutenant, and she had eight script credits to her name. [51]

Roddenberry and Barrett had begun an affair by the early days of Star Trek, [52] and he specifically wrote the part of the character Number One in the pilot with her in mind; no other actresses were considered for the role. Barrett suggested Nimoy for the part of Spock. He had worked with both Roddenberry and Barrett on The Lieutenant, and once Roddenberry remembered the thin features of the actor, he did not consider anyone else for the part. [54] The remaining cast came together; filming began on November 27, 1964, and was completed on December 11. [53] After post-production, the episode was shown to NBC executives and it was rumored that Star Trek would be broadcast at 8:00 pm on Friday nights. The episode failed to impress test audiences, [56] and after the executives became hesitant, Katz offered to make a second pilot. On March 26, 1965, NBC ordered a new episode. [57]

More thoughts on Klingon Star Ship Technology
I give just some side thoughts on Star Ship Technology. The Klingon's had some pretty good engineers, to be sure. And that famous Cloaking Device was surely a nice invention. But only for the Star Trek Script writers
who knew next to nothing how such a device works. We all know that there is artificial gravity on those Star Ships of the Stellar Federation and the Klingon's alike. Now when you create artificial gravity you must also create quite a huge deformation of the Space Time Structure around your ship, which is pretty impossible to shield, since gravity is the force that permeates all of the Universe. So it extends practically into infinity. And when you have such an artificial gravity device on your Star Ship, the Gravity signature of that will also extend practically into infinity. So the famous Cloaking Device is of no use at all when your enemy has a gravity detector on board.

The problem is only that in order to detect another Center of Gravity, you must by the technical requirements, shut off your own Gravity Generator, or otherwise you can detect only your own Gravity field. This would of course make for some quite uncomfortable ride of your own Star Ship crew. It is pretty much the same business as with Sonar Devices on Submarines. When you emit any sound at all, this can be heard across the whole ocean for more than 1000 kilometers around.

**Neutron Emissions**

The same holds with the Neutron Emissions. The thermonuclear reactors on board of these Star Cruisers emit so many tons of Neutrons, that they practically cannot be shielded at all. One would need about 1/2 Kilometer thickness of shielding. And how would you carry around a shield of 1/2 Kilometer of (lead or) water around you in your Star Cruiser? It would weigh a few Megatons, and then the whole beast wouldn't be able to move at all, let alone moving at warp speed. So when your nice enemy has a neutron detector on board you are out of luck again. And by your own neutron emissions you can be tracked at around a distance of about 1/2 Parsec. But in the first place, the whole crew of the Star Ship would be cooked right away after about 10 seconds of running their Thermonuclear Reactors. Neutrons are pretty difficult to shield. And ironically the best shield is water, H2O. Now since humans are about 70% H2O, they don't exactly serve as shield, but they catch up most of the Neutrons that are flying about. Humans are Neutron catchers if you want to make a joke of this. It is also the way a Neutron bomb works. It doesn't have so much explosive energy, but converts most of its power into Neutrons. So when such a device explodes, it destroys very little in terms of technical infrastructure, but very much so, all those living things which have all about the same content of H2O, meaning 70%.

So I don't know if a Star Ship with this kind of reactor would ever be able to carry a human crew. Now some more bad facts about the Cloaking Device. It eats up so much of your thermonuclear power that you must shut it off, when you want to fire your weapons. This was amply made clear in so many Star Trek movies. At least the Script writers had understood this problem. So they had to uncloak themselves when they got ready to fire, and before you fire you should better do some aiming and that takes some valuable time. And this is the one thing the poor Script writers didn't understand clearly: The Cloaking Device device works both ways by the laws of Physics. So while you have it switched on, you are also not able to see anything. This is pretty bad news if you just have some Asteroid fields to navigate around. Then to sum it up: A Cloaking Device is a nice toy but altogether useless. This is the reason why the Federal Star Fleet Engineers never thought of such a technological imbecility.

**Back to the Klingon Empire of Gene Roddenberry**

So back to the Klingon Empire of Gene Roddenberry. It was the "what if" the Spartans had managed to form a Real Empire. These are or will (may) be the Klingons. They are the perfect slave holding society who had their slaves working their souls away in the Dilithium Mines. Pretty much the same as the Athenians did with their Silver Mines which were the foundations of Athenian power and wealth. Similar to the underground cave cities of the mines of the Carthagians. These folks literally created a Hades. The Roman mining business was not much better. And the best and richest mines of Antiquity were in Spain. That is why the Romans were so eager to take those possessions away from the Carthagians, and after a while they succeeded when they had done away with Hannibal and his brother Hasdrubal Barka.

https://en.wikipedia.org/wiki/Hasdrubal_Barca

**Hasdrubal Barca** (245 – 22 June 207 BC), a latinization of ʿAzrubaʿ al (Punic: ⵚⴰ⳽ⳙ ⴱ ⵏ ⴳ ⴳ ⴳ ⴳ) son of Hamilcar Barca, was a Carthaginian general in the Second Punic War. He was the brother of Hannibal and Mago Barca

Now more on the Klingons: Gene Roddenberry knew his way around Dilithium quite well, since he knew a lot about the work of Edward Teller, who had practically invented the Hydrogen Bomb himself. What is not very well known even today, ist that Lithium is a more important component of the Thermonuclear Fusion Bomb as
it is more correctly called. There were a few little surprises when the USA tested a few of the early models of this type of bomb and they had miscalculated the effect of Lithium in the mixture. So the bomb was much stronger than expected and it did scare the hell out of those observers who had thought that they were a safe distance away. Unfortunately, it was not so safe. But by sheer luck, no-one was killed in that experiment. But some of the observation bunkers were quite a bit dented after the experiment. This is all in the wikipedia articles and no need to repeat it here. Dilithium was the answer that Gene Roddenberry came up with to do thermonuclear fusion without the incredible temperatures and pressures that one usually needs to keep a thermonuclear fusion going and continue it as long as the supply of Dilithium lasts. And this is quite a long time since it is such a dense energy source. Uranium 235 is also a quite dense energy source but it has much less energy density than the thermonuclear fusion which is the second most potent energy source in the whole of the universe. Except of course the complete annihilation of matter and antimatter which results in such a huge flash of lightning, that it is enough to illuminate half of the Galaxy for a microsecond or so. The famous photon torpedoes of the Star Fleet and of the Klingons also were made with this stuff. The small problem is only how to keep the antimatter away from reacting with ordinary matter at some un-predictable instant, like for example when there is a collision of Star Ships, and the ammunition gets bounced around quite a bit. This was the story of one of the childish novels by Dan Brown who had not the slightest idea what it means to first produce that anti-matter in any sizeable quantities, and then to store and handle it in some routine ways. So there still remain some unsolved problems when dealing with anti-matter. The other small problem is the same as with the fission of Plutonium, which is quite a different matter than Uranium 235, since you just cannot put a kilo or two of Plutonium together and wait for the fission reaction to produce some Kaboom. Plutonium is not so easy, since it tends to tear itself apart before the fission chain reaction really gets going. One has to come up with a lot of compression of the material to produce an Atomic Bomb. The trick is that you have to create an implosion before you have an explosion. Meaning that you have to compact the Plutonium in such a way that it will not tear itself apart before the chain reaction really starts. The same problem but some orders of magnitude more difficult is when you try to get enough matter and antimatter together before everything flies apart before they can properly react with each other. And it is easy to see that you cannot build explosive lenses for that, since these are just matter, and they will react with the antimatter also. So this may remain Science Fiction until some very intelligent Klingon or some very intelligent Vulcanian or some very intelligent Romulanian comes up with the technology to do this. This will probably happen more later than sooner, and even more probably never at all.

**Slavery in ancient Rome and the Klingons**

AG: There is just a little side story to tell. We have all seen or heard about the movie Gladiator. What we surely haven't seen or heard about is how the good pre-Gladiator land-Owner (Latifundium) Maximus Decimus Meridius (Meritokrattius / Meritokrassius of Plutokratik fame, see Patrice Ayme') had previously managed his estate in the province of Iberia or Españia. He had done this of course with a small army of slaves. And it didn't take a lot of ruffianism from the side of the good Commodus, to do the job. Just a small slave rebellion also did this perfectly. Like it was played out so often and so perfectly in the French colony of La Española aka Saint-Domingue. The irony of history is that when the slaves were finally set free, they became so much worse oppressors of the rest of the populace of Haiti and other places.


And the story is of course a plagiarism of the "Gone with the Wind" epos of the US-American South slave holding society which was only marginally more humane than the Roman one. There was a popular joke in the US South states slave society around these times: When a slave wasn't behaving properly, there was no great punishment needed (like it was so grossly exaggerated in the novels and movies)... It was just sufficient to tell the poor slave that if he didn't behave better in the future, then his master would be forced to sell him to a slave manager in the plantations of the Dutch West Indies. This was enough of a threat to make every slave behave as (s)he should. I will not tell more of this joke, as not to spoil it. I will just give another literature hint: You just read V.S. Naipaul: "The Middle Passage". And then you will know it all...


[https://en.wikipedia.org/wiki/Gone_with_the_Wind_(film)](https://en.wikipedia.org/wiki/Gone_with_the_Wind_(film))

Crowe portrays Hispano-Roman general Maximus Decimus Meridius, who is betrayed when Commodus, the ambitious son of Emperor Marcus Aurelius, murders his father and seizes the throne. Reduced to slavery, Maximus rises through the ranks of the gladiatorial arena to avenge the murders of his family and his emperor.
Slavery in ancient Rome played an important role in society and the economy. Besides manual labor, slaves performed many domestic services, and might be employed at highly skilled jobs and professions. Accountants and physicians were often slaves. Slaves of Greek origin in particular might be highly educated. Unskilled slaves, or those sentenced to slavery as punishment, worked on farms, in mines, and at mills.

Slaves were considered property under Roman law and had no legal personhood. Unlike Roman citizens, they could be subjected to corporal punishment, sexual exploitation (prostitutes were often slaves), torture and summary execution. Over time, however, slaves gained increased legal protection, including the right to file complaints against their masters.

A major source of slaves had been Roman military expansion during the Republic. The use of former soldiers as slaves led perhaps inevitably to a series of en masse armed rebellions, the Servile Wars, the last of which was led by Spartacus. During the Pax Romana of the early Roman Empire (1st–2nd centuries AD), emphasis was placed on maintaining stability, and the lack of new territorial conquests dried up this supply line of human trafficking. To maintain an enslaved work force, increased legal restrictions on freeing slaves were put into place. Escaped slaves would be hunted down and returned (often for a reward). There were also many cases of poor people selling their children to richer neighbors as slaves in times of hardship. In his Institutiones (161 AD), the Roman jurist Gaius wrote that: [Slavery is] the state that is recognized by the ius gentium in which someone is subject to the dominion of another person contrary to nature.

— Gaius, Institutiones 1.3.2[2]

The 1st century BC Greek historian Dionysius of Halicarnassus indicates that the Roman institution of slavery began with the legendary founder Romulus giving Roman fathers the right to sell their own children into slavery, and kept growing with the expansion of the Roman state. Slave ownership was most widespread throughout the Roman citizenry from the Second Punic War (218–201 BC) to the 4th century AD. The Greek geographer Strabo (1st century AD) records how an enormous slave trade resulted from the collapse of the Seleucid Empire (100–63 BC).[3]

The Twelve Tables, Rome’s oldest legal code, has brief references to slavery, indicating that the institution was of long standing. In the tripartite division of law by the jurist Ulpian (2nd century AD), slavery was an aspect of the ius gentium, the customary international law held in common among all peoples (gentes). The "law of nations" was neither considered natural law, thought to exist in nature and govern animals as well as humans, nor civil law, belonging to the emerging bodies of laws specific to a people in Western societies.[4] All human beings are born free (liberi) under natural law, but slavery was held to be a practice common to all nations, who might then have specific civil laws pertaining to slaves.[5] In ancient warfare, the victor had the right under the ius gentium to enslave a defeated population; however, if a settlement had been reached through diplomatic negotiations or formal surrender, the people were by custom to be spared violence and enslavement. The ius gentium was not a legal code,[6] and any force it had depended on “reasoned compliance with standards of international conduct.”[6]

During the period of Roman imperial expansion, the increase in wealth amongst the Roman elite and the substantial growth of slavery transformed the economy.[11] Although the economy was dependent on slavery, Rome was not the most slave-dependent culture in history. Among the Spartans, for instance, the slave class of helots outnumbered the free by about seven to one, according to Herodotus.[10] In any case, the overall role of slavery in Roman economy is a discussed issue among scholars.[21][22][23]

Delos in the eastern Mediterranean was made a free port in 166 BC and became one of the main market venues for slaves. Multitudes of slaves who found their way to Italy were purchased by wealthy landowners in need of large numbers of slaves to labor on their estates. Historian Keith Hopkins noted that it was land investment and agricultural production which generated great wealth in Italy, and considered that Rome’s military conquests and the subsequent introduction of vast wealth and slaves into Italy had effects comparable to widespread and rapid technological innovations.[1]

Augustus imposed a 2 percent tax on the sale of slaves, estimated to generate annual revenues of about 5 million sesterces—a figure that indicates some 250,000 sales.[24] The tax was increased to 4 percent by 43 AD.[25] Slave markets seem to have existed in every city of the Empire, but outside Rome the major center was Ephesus.[24]

Estimates for the prevalence of slavery in the Roman Empire vary. Estimates of the percentage of the population of Italy who were slaves range from 30 to 40 percent in the 1st century BC, upwards of two to three million slaves in Italy by the end of the 1st century BC, about 35% to 40% of Italy's population.[26][27][28] For the empire as a whole during the period 260–425 AD, according to a study done by Kyle Harper, the slave population has been estimated at just under five million, representing 10–15% of the total population of 50–60 million+ inhabitants. An estimated 49% of all slaves were owned by the elite, who made up less than 1.5% of the empire's population. About half of all slaves worked in the countryside where they were a small percentage of the population except on some large agricultural, especially imperial, estates; the
remainders the other half were a significant percentage 25% or more in towns and cities as domesticics and workers in commercial enterprises and manufacturers.\cite{29}

**On Klingon Technology and Hitler**

And since we all know our way around present-day technological history, we really soon find out about the famous Nazi German technologies of WWII, which were about as useless as that fancy Klingon Technology. Only the poor Hitler had no idea about any sorts of the true costs and the true value of those kinds of technology. So that he could be fascinated about some super weapons that would finally win the war for him. And the poor German engineers who concocted all those fabulous technologies had only one thing on their minds: How to avoid being drafted into the last bid for the German Wehrmacht to be thrown into the meat grinder of the Ostfront. So they had to come with up quite some creative thinking to impress the Fuehrer a little bit, since they knew full well that the dear Fuehrer had no idea at all what the logistics were all about, of the development, testing, and production, especially of the strategic metals, of these nice toys. The famed German Me 262 had no such strategic metals in their jet engines and their turbines burned out at about 20 hours of use. No inconel at hand at all. That was more the British way of doing jet engines. Also heat resistant ceramics. So it came to pass that the one-time socialist government of Great Britain had nothing better to do than to sell a few of the pretty ingenious and infamous Nene engines to the Russians in 1946. What a nice technology transfer that was, especially when the Mig-15's showed up as a nasty suprise for the Allies over the Korean War theater. And what the Russians lacked in terms of very heavy industrial power base, like the US did, they made up nicely with their master spies in the KGB. So when those nice KGB agents did a visit to the Rolls Royce Nene plant, where they were shown the milling machines that shaped the Nene turbine blades out of inconel flats, and they had shoes with extra spongy soles, and so they picked up some shavings with these soles and sent them back to the USSR to analyse them. And so they found out about the secrets of inconel which were pretty closely guarded secrets in the year 1946. Just to remind: The good Vladimir Putin had once been a master spy in East Germany. So he knows the German language and the German mind very well. So back to Nazi Jet Engine Technology: The Germans didn't have inconel so their jet engines burned out as quickly as they could.

https://www.revolvy.com/page/Rolls%252DRoyce-Nene

**Inconel**

https://en.wikipedia.org/wiki/Inconel

Inconel is a family of austenitic nickel-chromium-based superalloys.\cite{1} Inconel alloys are oxidation-corrosion-resistant materials well suited for service in extreme environments subjected to pressure and heat. When heated, Inconel forms a thick, stable, passivating oxide layer protecting the surface from further attack. Inconel retains strength over a wide temperature range, attractive for high temperature applications where aluminum and steel would succumb to creep as a result of thermally induced crystal vacancies. Inconel's high temperature strength is developed by solid solution strengthening or precipitation hardening, depending on the alloy.\cite{2,3}

Inconel alloys are typically used in high temperature applications. Common trade names for Inconel Alloy 625 include: Inconel 625, Chronin 625, Altemp 625, Haynes 625, Nickelvac 625 and Nimicro 620.\cite{4} Inconel Alloy 600 include: NA14, N06600, BS3076, 2.4816, NCr15Fe (FR), NiCr15Fe (EU) and NiCr15Fe8 (DE). Inconel 718 include: Nimicro 5219, Superimphy 718, Haynes 718, Pyromet 718, Supermet 718, and Udimet 718.\cite{5}

The Inconel family of alloys was first developed in the 1940s by research teams at Wiggins Alloys (Hereford, England), which has since been acquired by Special Metals Corporation,\cite{6} in support of the development of the Whittle jet engine.\cite{7}

In June 2018, SpaceX CEO Elon Musk announced completion of work on a new Inconel superalloy called SX 300 developed for high-temperature, high-pressure, highly-oxidative environments in a rocket engine.\cite{8}

**Properties**

Inconel alloys are oxidation- and corrosion-resistant materials well suited for service in extreme environments subjected to high pressure and kinetic energy. When heated, Inconel forms a thick and stable passivating oxide layer protecting the surface from further attack. Inconel retains strength over a wide temperature range, attractive for high-temperature applications where aluminium and steel would succumb to creep as a result of thermally induced crystal vacancies (see Arrhenius equation). Inconel's high temperature strength is developed by solid solution strengthening or precipitation strengthening, depending on the alloy. In age-hardening or precipitation-strengthening varieties, small amounts of niobium combine with nickel to form the intermetallic compound Ni₃Nb or gamma double prime (γ'). Gamma prime forms small cubic crystals that inhibit slip and creep effectively at elevated temperatures.\cite{14} The formation of gamma-prime crystals
increases over time, especially after three hours of a heat exposure of 850 °C, and continues to grow after 72 hours of exposure.[15]

**Machining Inconel**

Inconel is a difficult metal to shape and machine using traditional cold forming techniques due to rapid work hardening. After the first machining pass, work hardening tends to plastically deform either the workpiece or the tool on subsequent passes. For this reason, age-hardened Inconels such as 718 are machined using an aggressive but slow cut with a hard tool, minimizing the number of passes required. Alternatively, the majority of the machining can be performed with the workpiece in a solutionized form, with only the final steps being performed after age hardening.

External threads are machined using a lathe to "single-point" the threads or by rolling the threads in the solution treated condition (for hardenable alloys) using a screw machine. Inconel 718 can also be roll-threaded after full aging by using induction heat to 1,300 °F (700 °C) without increasing the grain size. Holes with internal threads are made by thread milling. Internal threads can also be formed using a sinker electrical discharge machining (EDM).


In 1946, the Cold War was not only not a thing, but still perfectly avoidable. As such, Clement Attlee’s government authorised the export of 40 Rolls-Royce Nene engines to the USSR. Since the Nene was a conservative, underpowered centrifugal flow engine as opposed to the axial flow Avon the British were intending to use going forward, exporting the Nene was not thought to be a problem. Contrary to what the other answers state, Rolls-Royce was paid in full for the 40 engines they exported.

The Soviets studied the Nene, re-designed it to be bigger and more powerful and proceeded to produce it as the VK-1. They also helped the Chinese to set up production of the VK-1 where, in the late 50s, a bod from Rolls-Royce saw them, threw a strop and started demanding over 200m pounds in license fees. With the Cold War in full effect and given that Rolls-Royce never provided any of the tooling or technical materials to aid in production, needless to say those demands were not met.

The idea that this was some sort of massive error that gave the Soviets a massive advantage is a bit of a myth. They had their own research as well as access to research materials from the Germans (albeit not the actual scientists, who ended up in American hands one way or another). Moreover, by 1946 the trick wasn’t necessarily designing the engine - how it was supposed to work was well-understood - but in how to manufacture it. This is what let the Germans down - they had little access to rare metals in order to produce alloys with the necessary qualities.

This myth arose largely as a result of MiG-15bis’ superiority in the Korean War, but its fundamental advantage was the swept wing design and all the work that went into aerodynamics (the Gloster Meteor would for example become unstable at high speeds). The Nene engine was a shortcut, but anyone who can reverse-engineer something like that can also design it and the Soviet metallurgy solutions were original.

NB: This is a good spot to acknowledge Frank Whittle, who invented the engine that Rolls-Royce then licensed and developed, back in the mid 1930-s when it *was* a technological marvel.


The Rolls-Royce RB.41 Nene is a 1940s British centrifugal compressor turbojet engine. The Nene was a complete redesign, rather than a scaled-up Rolls-Royce Derwent[1] with a design target of 5,000 lbf, making it the most powerful engine of its era. It was Rolls-Royce’s third jet engine to enter production, and first ran less than 6 months from the start of design. It was named after the River Nene in keeping with the company’s tradition of naming its early jet engines after rivers.

The design saw relatively little use in British aircraft designs, being passed over in favour of the axial-flow Avon that followed it. Its only widespread use in the UK was in the Hawker Sea Hawk and the Supermarine Attacker. In the US it was built under licence as the Pratt & Whitney J42, and it powered the Grumman F9F Panther. Its most widespread use was in the form of the Klimov VK-1, a reverse-engineered, modified and enlarged version which produced around 8,000 lbf of thrust, and powered the famous Mikoyan-Gurevich MiG-15, a highly successful fighter aircraft which was built in vast numbers. A more powerful slightly enlarged version of the Nene was produced as the Rolls-Royce Tay. The Nene was designed and built as a result of an early 1944 Air Ministry request for an engine of 4,200 lbf thrust, and an engine was schemed-out by Stanley Hooker and Adrian Lombard as the B.40. In the summer of 1944 Hooker visited the US and discovered that General Electric already had two engine types, an axial and a centrifugal, of 4,000 lbf thrust running. On returning to the UK Hooker decided to go for 5,000 lbf of thrust and, working with Lombard, Pearson and Morley, a complete redesign of the B.40 resulted in the B.41,[1] later to be called the Nene.

The double-sided impeller was 28.8 inches in diameter, compared to 20.68 for the Derwent I, to produce an airflow of 80 lb/s, while the overall diameter of the engine was 49.5 inches. A scaled up Derwent would have
a 60-inch diameter. The compressor casing was based on Whittle’s Type 16 W.2/500 compressor case which was more aerodynamically efficient than that on the Derwent but also eliminated cracking. Other design advances included nine new low pressure-drop/high efficiency combustion chambers developed by Lucas and a small impeller for rear bearing and turbine disc cooling. The first engine start was attempted on 27 October 1944. A number of snags delayed the run until nearly midnight, when with almost the entire day and night shift staff watching, an attempt was made to start the engine, without the inlet vanes, which had not yet been fitted. To everyone's dismay the engine refused to light - positioning the igniter was a trial-and-error affair at the time. On the next attempt, Denis Drew unscrewed the igniter and as the starter motor ran the engine up to speed, lit the engine with an oxy-acetylene torch. The engine was run up to 4,000 lbf and more, and a cheer went up around the assembled personnel. Upon Hooker's arrival next morning, and informed that the inlet vanes had been fitted during the night, Hooker was satisfied to see the thrust gauge needle registering 5,000 lbf, making the B.41 the most powerful jet engine in the world. Weight was around 1,600 lb.

The Mig 15 would have been much later as a reliable engine would have taken much longer to develop than copying the Nene/Derwent engine sent to USSR. At the time people had not woken up to how relations would develop and change in late 40s so a left leaning UK government would not have realised how things would develop. The transfer of German prisoners-civilians who were on gas turbine teams in WWII were quite numerous. On the night of Oct 22 1946 250 BMW and 350 Junkers specialists were transferred to USSR.

The BMW task was to improve and support BMW 003 production at 2,200 lbf rating. Rotten turbine material meant the life and integrity of the blades was low and only a small number were built. The Junkers group worked on developing a 6,700 lbf jet based on the Jumo 012; again turbine blade integrity meant the engine could not pass the Russian 100 hr type test and development was stopped in 1948. The combined Junkers/BMW team were then tasked with developing a 6,000hp turboprop. Nikolai Kuznezzow was the chief designer who ensured test beds and rigs were constructed while German specialists...

Alfred Schreiber and Josef Vogts supervised development, Ferdinand Brandner- the construction of prototypes and Karl Prestel supervised test bed trials.

### Some more Harrowing Stories about Dilithium

Now we come to some harrowing stories about that strange element Deludium, er I mean Dilithium. I had said it, Gene Roddenberry knew something about Thermonuclear Fusion, since he had read the story of Edward Teller diligently. What only few people know is that Dilithium is in the atomic formula: Li(2). Now that is quite strange. Because Hydrogenium exists only as H(2). There is no such thing as a single Atom of Hydrogenium. And the good Gene Roddenberry did some really clever analogous thinking. So he had probably thought to himself: When Hydrogenium only comes as H(2), why don't we try this with Lithium. And here things become interesting. By analogous thinking he arrived at the speculative conclusion, that if there is dual Lithium, one could use this property to stack Lithium Atoms together Li(2), and they would have the fabulous property that you can stack them together like so many Lego blocks. So you take two Li(2)'s and you stack them together, then you suddenly have something even more strange. Because it is now Li(2) ** Li(2). The ** are shorthand for exponential. Then you take two pairs of Li(2) ** Li(2) and then another Li(2) ** Li(2). You suddenly get something really complicated and it becomes difficult to write it as a formula. Because it now becomes somethign even stranger:

\[
\text{Li}(2) \times \text{Li}(2) \times \text{Li}(2) \times \text{Li}(2) \times \text{Li}(2) \times \text{Li}(2) \times \ldots
\]

Because the more often you stack this together, it becomes more of an exponential function. So once you have stacked enough of them together, about 30 times, you already can initiate a pretty good thermo-nuclear process with very little Energy input. Now this is pure speculation of my mind running wild. But as I always have some good intuition, when I do things like that... I know what an exponential is, and it multiplies itself like wildfire. I have already demonstrated this with the Exponential of Fire of human Intelligence, copyright by our good Herakliitos. It is just too bad that next-to-no-one in the whole of humanity (Die Letzten Menschen), is able to think this. And I quote again the good Patrice Ayme'.

### References

Patrice Ayme' is about as good as yours truly (I mean me) to think the Exponential. So we are just some oddballs in the whole of humanity. A nuclear chain reaction is also always an exponential of the kind of the Li(2) experiment above mentioned. First you have 2 Neutrons, then you have 4, then you have 8 ... and then when you get to around at about 30 or so Exponentializations, the whole thing goes kaboom! This is the mechanism of an Atomic Bomb in about 30 words or less. Even Edward Teller could not have given you a shorter story. I am quite sure of that.

The Superior Technology of the 2300's to 2500's

Only the script writers of Star Trek were sure that the superior technology of the 2300's to 2500's would come up with an answer. I think it will be round about the 23.000's that we have to wait for, if it ever comes to pass, since there is a good chance that about the time of 2170 there will be no more humanity around to invent anything at all. The Star Trek movie First Contact (1996) enlarges a little bit on the possibility of how any-one of humanity could come up with the first warp drive. And this is such a ridiculous idea that only the Star Trek Script writers could come up with. Unfortunately Gene Roddenberry wasn't around any more or he would have surely stopped such this ridiculous idea.

Now this is all Science Fiction but there are still a few valuable lessons to be learned. And some of these lessons are of technological nature. As I had said it in another of my articles on the mindset of a slave holding society, that the elite becomes complacent and haughty and aloof when you let the slaves do all the menial ie. manual work for you and you just do the thinking and directing and ordering around the slaves. This was essentially the downfall of ancient Greek society and of the Romans to some measure. And the prototypical example of this haughtiness and aloofness was our poor Platon, who was so aristocratic, that he would never touch any dirty, heavy, and sordid matter, not even with a one meter-long stick. And unfortunately the poor Roman Katholik Christians after the 3rd century or so, had nothing better to do than make the poor Platon their Leitgeist or their Zeitgeist. As the Freudians would say it: The Spiritus Rectum. (This is just a little dirty Freudian joke). The GIGO principle states: When you start out with Garbage, you will also faithfully continue to re-produce Garbage, which was pretty much the whole of Christian Philosophy in the gist of what Whitehead had stated: Most of Christian philosophy is just a series of footnotes to Platon. This means: Most of Western Christian philosophy (ancilla theologiae) just belongs to the rubbish heap of bad ideas carried to their logical extremes in the form of the Suprematization of the theology. And Peter Sloterdijk in "Gottes Eifer" had some very intelligent things to say about that pitfall in the history of Christian Thinking right from the start. I have just enlarged a little bit about the haughtiness of thinking philosophy only and leave the dirty work to the slaves.

Now coming back to the Klingon Empire. The Klingon's were pretty much the same as the ancient Greeks, especially the Spartans, and also very much like the Romans. They also considered it beneath their dignity to do any menial work at all, since the Klingon's had their slaves for this business, and so they were the Super-Spartans and Romans of the Galaxy. Of course the Star Trek movies rarely spell this out in all the gory details. But there was this one scene with James T. Kirk who was made prisoner on one of the many Prison Planets of the Klingon Empire. And we can be pretty sure that the Klingon's had quite a lot of Prison Planets. We may safely assume that the Klingon's had quite a lot of Prison Planets. We can make a rough estimate by extrapolating the number of slaves in the Roman Empire, and they were about about 35% to 40% of Italy's population. I am always surprised how detailed and thoroughly researched the US wikipedia articles are. And the German wikipedia is just a bunch of crap in comparison. So back to the Klingon Empire. We may safely assume that it had about 100 to 1000 planets under its iron (er Dilithium) rule. Otherwise it would just have been no Galaktik Empire at all. So we make the extrapolation that there must have been proportionately as many as 40 prison planets up to 400 prison planets, comprising the surprising number of... There must have been a slave population of 400 * 10 billion slaves in the whole of the Klingon Empire. When we rougly calculate about 10 billion slaves per slave planet. So this is it what you get, when you have a slave holding Empire out of all proportions. And since you need to have around one slave guardian for every 100 slaves... Well I can't get the numbers in the wikipedia any more. I think that I have exhausted the wikipedia.
The Star Trek Script Writers on the Implosion of the Klingon Empire

... So the the Star Trek script writers really did a good job with this Klingon Empire even if they didn't show us the exact figures. But with some extrapolating the slave statistics of the Roman Empire, we get to some very plausible numbers. And now we can do a little Double-Thinking to get to more dirty details. And the Klingon's would have vanished out of the Galaxy just by their own doing, just like the Spartans and the Romans did. It was the same bloody numbers calculation that led to the undoing of the Roman Empire. When the expansion of the Roman Empire stopped cold in its tracks after the times of about Marcus Aurelius, this was the end of the expansion and the beginning of the collapse or one may better call it The Implosion. There were no more fresh streams of slaves flowing into the Roman economy, that means the whole business plan of the Roman Empire collapsed altogether with the slave population. So I hope that I made the point correctly that it was REALLY NOT the Christians who were the culprits for the Roman collapse.

The Complete Destruction of the last Vestiges of Antiquity

But when the implosion was really quite complete, the good Christians did what they could to destroy even the last vestiges of Ancient Roman Civilisation. Which was around the time of the Emperor Theodosius around 395 CE, and then the DARK AGES REALLY BEGAN, the wholesale Cultural Memory Loss of the Ancient Civilization. And for this the Christians were MOST CERTAINLY THE CULPRITS. We should not believe the euphemistic stories of the Anachoristes in the Egyptian Desert, like for example in the "Glasperlenspiel" of Hermann Hesse. This is pure propaganda of the finest Christian Sort. And even the good Lenin and the good Trotzki and the good Stalin wouldn't have been able to produce a better (or worse) propaganda. Because the Christian Anachoristes were more likely the CircumCelliones, and they liked to loot and pillage, to burn and tear down, to rape, and drink and even suicide themselves en masse so that they became proverbial for the next 1800 years or so. The CircumCelliones and their ilk took bloody revenge on the remaining heathen population of the former Roman Empire. Whereas the Christian Martyr victims on the whole never exceeded more than about 1000, the CircumCelliones and their ilk took the lives of at least 10.000, give or take a few 10.000 more.

https://www.princeton.edu/~pswpc/pdfs/shaw/020603.pdf
https://en.wikipedia.org/wiki/Sectarianism
https://www.google.com/search?q=circumcellions+and+monks&source=hp&ei=3NsTXbuRCczOwOKSkrIygDA&hl=en&tbm=isch&sa=X&ved=0ahUKEwjD-ohEwhjyAhUPBjQIHbX8BG0QaUHBIQ&biw=1880&bih=949&gs_l=psy-ab.3...0.1013.63.922.0.1.1.0.77.1.1.1.0.0.0.0.0...0...1...0...0.1.1.1.Sectarianism 1.0.0....0....1..gws-wiz.....0.z4SuaNkOxd4

The Collapse is just a natural law of the exponential which cannot go on forever, and it suddenly turns into the inverse, or a Minus Sum Game to phrase it in the terminology of John von Neumann's theory of games and economic behaviour. I have read the new title "Collapse" by Jared Diamond, but it is clear that the good Jared does the same spelling out the dire message that I am just expounding. See also the very enlightening work of Patrice Ayme' who goes much deeper into the dirty details than I do. He rightly calls it the Iron Law of the Exponential and the Law of Plutocracy which is pretty much the same. Unfortunately I couldn't come up with more quotations of the deeds of the Emperor Theodosius, since the good Patrice dwells upon the Emperor Constantine much more.

[And now I do some wondering: Just the same day when I wrote this, the good Patrice just happened to come up with an article featuring the Emperor Theodosius. I was quite surprised when I read his article, and I came quite close to believe in C.G. Jung Synchronicity.]

Now the good Patrice is not an Übermensch and it is not the destiny of us humans to know everything in those huge large expanses of the Universe of our Knowledge. So we must at some times pretend that we are Sokrates, and we know that we know next to nothing about this huge the Universe of our Knowledge. And as Newton had rightly stated it: What we know is a drop, and what we don't know is the Ocean. I will immediately believe him. And just as a little side thought, the good Patrice had mis-understood Sokrates completely since he had read only the Platon version of Sokrates and not the Xenophon version, where Sokrates is quite completely a very different person at all. The good Patrice cannot read all the works of the history of philosphy and neiter can I. I am very humble to confess this right here and now.
Theodosius I (Latin: Flavius Theodosius Augustus;[1] Greek: Θεοδόσιος Α'); 11 January 347 – 17 January 395), also known as Theodosius the Great, was a Roman Emperor from 379 to 395, and the last emperor to rule over both the Eastern and the Western halves of the Roman Empire. On accepting his elevation, he campaigned against Goths and other barbarians who had invaded the Empire. His resources were not sufficient to destroy them or drive them out, which had been Roman policy for centuries in dealing with invaders. By treaty, which followed his indecisive victory at the end of the Gothic War, they were established as foederati, autonomous allies of the Empire, south of the Danube, in Illyricum, within the Empire's borders. They were given lands and allowed to remain under their own leaders, a grave departure from Roman hegemonic ways. This turn away from traditional policies was accommodationist and had grave consequences for the Western Empire from the beginning of the century, as the Romans found themselves with the impossible task of defending the borders and deal with unruly federates within. Theodosius I was obliged to fight two destructive civil wars, successively defeating the usurpers Magnus Maximus in 387–388 and Eugenius in 394, though not without material cost to the power of the Empire. He issued decrees that effectively made Nicene Christianity the official state church of the Roman Empire.[2][3] He neither prevented nor punished the destruction of prominent Hellenistic temples of classical antiquity, including the Temple of Apollo in Delphi and the Serapeum in Alexandria. He dissolved the Order of the Vestal Virgins in Rome. In 393, he banned the pagan rituals of the Olympics in Ancient Greece. After his death, Theodosius's young sons Arcadius and Honorius inherited the east and west halves of the empire respectively, and the Roman Empire was never again re-united, though Eastern Roman emperors after Zeno would claim the united title after Julius Nepos's death in 480.

Theodosius is considered a saint by the Armenian Apostolic Church and Eastern Orthodox Church[4], and his feast day is on January 19.[5]

In 325, Constantine I convened the Council of Nicaea, which affirmed the doctrine that Jesus, the Son, was equal to God the Father and "of one substance" with the Father (homoousios in Greek). The Council condemned the teachings of Arius, who believed Jesus to be inferior to the Father. Despite the council's ruling, controversy continued for decades, with several christological alternatives to the Nicene Creed being brought forth. Theologians attempted to bypass the Christological debate by saying that Jesus was merely like (homoios in Greek) God the father, without speaking of substance (ousia). These non-Nicenes were frequently labeled as Arians (i.e., followers of Arius) by their opponents, though not all would necessarily have identified themselves as such.[33] For lack of a better name, they are known to history as Semi-Arians.[14]

The Emperor Valens had favored the group who used the homoios formula; this theology was prominent in much of the East and had under Constantius II gained a foothold in the West, being ratified by the synod of Rimini, though it was later abjured by a majority of the western bishops (after Constantius II's death in 361).[35] The death of Valens damaged the standing of the Homoian faction, especially since his successor Theodosius steadfastly held to the Nicene Creed which was the interpretation that predominated in the West and was held by the important Alexandrian church.

The Christian persecution of Roman religion under Theodosius I began in 381, after the first couple of years of his reign in the Eastern Roman Empire. In the 380s, Theodosius I reiterated Constantine's ban on some practices of Roman religion, prohibited haruspicy on pain of death, decreed magistrates who did not enforce laws against polytheism were subject to criminal prosecution, broke up some pagan associations and tolerated attacks on Roman temples.

Between 389–392 he promulgated the Theodosian decrees[40] (instituting a major change in his religious policies),[41][42] which removed non-Nicene Christians from church office and abolished the last remaining expressions of Roman religion by making its holidays into workdays, banning blood sacrifices, closing Roman temples, confiscating Temple endowments and disbanding the Vestal Virgins.[42] The practices of taking auspices and witchcraft were punished. Theodosius refused to restore the Altar of Victory in the Senate House, as asked by non-Christian senators.[41][42]

In 392 he became sole emperor. From this moment till the end of his reign in 395, while non-Christians continued to request toleration,[43][44] he ordered, authorized, or at least failed to punish, the closure or destruction of many temples, holy sites, images and objects of piety throughout the empire.[45][46][47][48][49][50] In 393 he issued a comprehensive law that prohibited any public non-Christian religious customs,[51] and was particularly oppressive to Manicheans.[52] He is likely to have discontinued the ancient Olympic Games, whose last record of celebration was in 393, though archeological evidence indicates that some games were still held after this date.[53]
I have written something about the haughty Greek philosophers in this article.

http://www.noologie.de/zeno01.htm

So now for a little backtrack: The Greek engineers were not in the same hierarchical societal class structure of Greece as the ancient Greek philosophers were. We recall that Sokrates was a Stone Mason by his profession. And the ancient Greek Stone Mason's were quite a bit like the Freemasons, except that they Really knew their business of Temple Archi-Tecture, and then some more of Ancient Sacred -Architecture, -Geometry, -Geomancy, and Sacred- Musicology. I have expounded this a little bit more in my Wagner article. So I don't know if Platon just wanted to tell us a joke about Sokrates confessing that he knew nothing. When one is an initiate of the sacred traditions of the above crafts and initiations, then it is quite impossible to not know something. As I said this already a few times. The good Sokrates is a person around whom so many bad stories had been concocted, especially by our good Platon. And it was the greatest disservice he did for humanity that he pictured Sokrates in a wholly confusing and distorted way. One needs to restore the real Personality or the Daimonos of Sokrates behind this false Persona that Platon had concocted. We may recall that the ancient meaning of Persona just means Per-Sonare, and this is called to "Sound Through a Per-Son" the Message of the Divine. And by this, a worse misreading and distortion of Sokrates than what Platon did, was not sprematiz-able, as Peter Sloterdijk would call it in "Gottes Eifer".

http://www.noologie.de/wagner1.htm
http://www.noologie.de/wagner1.htm
http://www.google.com/search?q=tanjore+temple+architecture+secrets&tbs=isch&source=hp&sa=X&ved=2ahUKEwjG-cKwuO7iAhVOCewKHXwvBCgQsAR6BAgEEAE&biw=1380&bih=707

The Historical Lessons of the Downfall of the Klingon Empire

So back to the lessons that the downfall of the Klingon Empire will surely tell us in the near of even not so far future. The Klingon's would have surely done their own extinction, when their expansion came to a halt, just the same fate that befell the Ancient Romans. As George Santayana had put it succinctly:

Those who cannot remember the past are condemned to repeat it.

https://en.wikiquote.org/wiki/George_Santayana

And if the Klingon's would just have had a few more 100 years of exponential growth and then the inevitable collapse to really experience their own kind of fall of their Empire. And so we heed the lessons of his-story and we just witness the collapse of our own exponential growth not-so civilization. We are already quite a good way into the total biospheric collapse, and the human population collapse. And by the year 2170 or so, there may be just about 500 million of "Die Letzen Menschen" left over on our once beautiful planet, which by then will be ravaged and pillaged beyond any recognition. So the Matrix story of the Wachowski's is just some kind of prophesy, except that they got the scenario totally wrong. I would have never been able to think of a more hare-brained theory than that of the Matrix: The sole source of energy would be huge bee-hives of warm human bodies. Because the human bodies, and especially their brains, are the biggest consumers of energy, in the whole of the Galaxy. I don't like to make prophesies because they are pretty hard, especially when they concern the future, which I always like to say. But one thing is for sure: The kind of technology the we have now is no way out, and neither are the sorry attempts at solar and wind power. The good Patrice always says that we direly need Thermonuclear Power. But I still don't have any idea how we could get that without an ample supply of Dilithium.

Star Trek first Contact

https://en.wikipedia.org/wiki/Star_Trek:_First_Contact#Themes

Frakes believes that the main themes of First Contact—and Star Trek as a whole—are loyalty, friendship, honesty and mutual respect. This is evident in the film when Picard chooses to rescue Data rather than evacuate the ship with the rest of the crew.[12] The film makes a direct comparison between Picard's hatred of the Borg and refusal to destroy the Enterprise and that of Captain Ahab in Herman Melville's novel Moby-Dick. The moment marks a turning point in the film as Picard changes his mind, symbolized by his putting down his phaser.[13] A similar Moby-Dick reference was made in Star Trek II: The Wrath of Khan, and although Braga and Moore did not want to repeat it, they decided it worked so well they could not leave it out.[16] In First Contact, the individually inscrutable and faceless Borg fulfill the role of the similarly unreadable whale in Melville's work. Picard, like Ahab, has been hurt by his nemesis, and author Elizabeth Hinds said it makes sense that Picard should "opt for the perverse alternative of remaining on board ship to fight" the Borg rather than take the only sensible option left, to destroy the ship.[71] Several lines in the film refer to the
21st-century dwellers being primitive, with the people of the 24th century having evolved to a more utopian society. In the end it is Lily (the 21st-century woman) who shows Picard (the 24th-century man) that his quest for revenge is the primitive behavior that humans had evolved to not use.[16] Lily's words cause Picard to reconsider, and he quotes Ahab's words of vengeance, recognizing the death wish embedded therein.[71] The nature of the Borg, specifically as seen in First Contact, has been the subject of critical discussion. Author Joanna Zylinska notes that while other alien species are tolerated by humanity in Star Trek, the Borg are viewed differently because of their cybernetic alterations and the loss of personal freedom and autonomy. Members of the crew who are assimilated into the Collective are subsequently viewed as "polluted by technology" and less than human. Zylinska draws comparisons between the technological distinction of humanity and machine in Star Trek and the work of artists such as Stelarc.[72] Oliver Marchart drew parallels between the Borg's combination of many into an artificial One and Thomas Hobbes's concept of the Leviathan.[73] The nature of perilous first contact between species, as represented by films such as Independence Day, Aliens and First Contact, is a marriage of classic fears of national invasion and the loss of personal identity.[74]

**About Atom Bombs**
https://en.wikipedia.org/wiki/Fat_Man

"Fat Man" was the codename for the nuclear bomb that was detonated over the Japanese city of Nagasaki by the United States on 9 August 1945. It was the second of the only two nuclear weapons ever used in warfare, the first being Little Boy, and its detonation marked the third nuclear explosion in history. It was built by scientists and engineers at Los Alamos Laboratory using plutonium from the Hanford Site, and it was dropped from the Boeing B-29 Superfortress Bockscar piloted by Major Charles Sweeney. The name Fat Man refers to the early design of the bomb because it had a wide, round shape; it was also known as the Mark III. Fat Man was an implosion-type nuclear weapon with a solid plutonium core. The first of that type to be detonated was the Gadget in the Trinity nuclear test less than a month earlier on 16 July at the Alamogordo Bombing and Gunnery Range in New Mexico. Two more were detonated during the Operation Crossroads nuclear tests at Bikini Atoll in 1946, and some 120 were produced between 1947 and 1949, when it was superseded by the Mark 4 nuclear bomb. The Fat Man was retired in 1950. Oppenheimer brought John von Neumann to Los Alamos in September 1943 to take a fresh look at implosion. After reviewing Neddermeyer's studies, and discussing the matter with Edward Teller, von Neumann suggested the use of high explosives in shaped charges to implode a sphere, which he showed could not only result in a faster assembly of fissile material than was possible with the gun method, but which could greatly reduce the amount of material required, because of the resulting higher density.[9] The idea that, under such pressures, the plutonium metal itself would be compressed came from Teller, whose knowledge of how dense metals behaved under heavy pressure was influenced by his pre-war theoretical studies of the Earth's core with George Gamow.[9] The prospect of more-efficient nuclear weapons impressed Oppenheimer, Teller, and Hans Bethe, but they decided that an expert on explosives would be required. Kistiakowsky's name was immediately suggested, and Kistiakowsky was brought into the project as a consultant in October 1943.[8]

**Edward Teller**

Edward Teller (Hungarian: Teller Ede; January 15, 1908 – September 9, 2003) was a Hungarian-American theoretical physicist who is known colloquially as "the father of the hydrogen bomb" (see the Teller–Ulam design), although he did not care for the title.[1] He made numerous contributions to nuclear and molecular physics, spectroscopy (in particular the Jahn–Teller and Renner–Teller effects), and surface physics. His extension of Enrico Fermi's theory of beta decay, in the form of Gamow–Teller transitions, provided an important stepping stone in its application, while the Jahn–Teller effect and the Brunauer–Emmett–Teller (BET) theory have retained their original formulation and are still mainstays in physics and chemistry.[2] Teller also made contributions to the Thomas–Fermi theory, the precursor of density functional theory, a standard modern tool in the quantum mechanical treatment of complex molecules. In 1953, along with Nicholas Metropolis, Arianna Rosenbluth, Marshall Rosenbluth, and his wife Augusta Teller, Teller co-authored a paper that is a standard starting point for the applications of the Monte Carlo method to statistical mechanics.[3] Throughout his life, Teller was known both for his scientific ability and for his difficult interpersonal relations and volatile personality. Teller was born in Hungary and emigrated to the United States in the 1930s. He was an early member of the Manhattan Project, charged with developing the first atomic bomb; during this time he made a serious push to develop the first fusion-based weapons as well, but these were deferred until after World War II. After his controversial testimony in the security clearance hearing of his former Los Alamos Laboratory superior, J. Robert Oppenheimer, Teller was ostracized by much of the scientific community. He continued to find support from the U.S. government and military research establishment, particularly for his advocacy for nuclear energy development, a strong nuclear arsenal, and a vigorous nuclear testing program. He was a co-founder of
A fusion explosion begins with the detonation of the fission primary stage. Its temperature soars past plaything like a little temple door-opener magic. The haughty Greek philosophers just couldn't think of anything useful to do with those inventions until about 2000 years later in the late 1600's, when the first seeds of the Industrial Revolution were sown. Interestingly enough the French scientists were about as haughty as the Greek philosophers, and they left the Industrial Revolution to the British'ers, much to their later chagrin.

A fusion explosion begins with the detonation of the fission primary stage. Its temperature soars past approximately one hundred million Kelvins, causing it to glow intensely with thermal X-radiation. These X-rays flood the void (the "radiation channel" often filled with polystyrene foam) between the primary and secondary assemblies placed within an enclosure called a radiation case, which confines the X-ray energy and resists its outward pressure. The distance separating the two assemblies ensures that debris fragments from the fission primary (which move much slower than X-ray photons) cannot disassemble the secondary before the fusion explosion runs to completion.

The fusion weapons consist essentially of two main components: a nuclear fission primary stage (fueled by uranium-235 or plutonium-239) and a separate nuclear fusion secondary stage containing thermonuclear fuel: the heavy hydrogen isotopes deuterium and tritium, or in modern weapons lithium deuteride. For this reason, thermonuclear weapons are often colloquially called hydrogen bombs or H-bombs.[6]

And all those very clever engineers that the Greeks had, like the fellows who built the Antikythera Mechanism or like Archimedes of Syracuse, or the steam toy of Heron of Alexandria, which was just used to do some plaything like a little temple door-opener magic. The haughty Greek philosophers just couldn't think of anything useful to do with those inventions until about 2000 years later in the late 1600's, when the first seeds of the Industrial Revolution were sown. Interestingly enough the French scientists were about as haughty as the Greek philosophers, and they left the Industrial Revolution to the British'ers, much to their later chagrin.

And for our surprise the French Salons were a pretty exact copy of the ancient Greek Symposion's. With about as much wine and then some Hashish, some Opium, and later some Cocaine. The only thing different from the Greeks was that the Salons mostly were managed by the women of society who were a sort of Soap Opera Conductors. So they had a little different role than that of the ancient Greek hetairae.

Thermonuclear Weapon

https://en.wikipedia.org/wiki/Thermonuclear_weapon

A thermonuclear weapon, or fusion weapon, is a second-generation nuclear weapon design. Its greater sophistication over pure fission weapons may afford it vastly greater destructive power than first-generation atomic bombs, a more compact size, a lower mass or a combination of these benefits. Modern fusion weapons consist essentially of two main components: a nuclear fission primary stage (fueled by uranium-235 or plutonium-239) and a separate nuclear fusion secondary stage containing thermonuclear fuel: the heavy hydrogen isotopes deuterium and tritium, or in modern weapons lithium deuteride. For this reason, thermonuclear weapons are often colloquially called hydrogen bombs or H-bombs.[6]

Castle Bravo

https://en.wikipedia.org/wiki/Castle_Bravo

Castle Bravo was the first in a series of high-yield thermonuclear weapon design tests conducted by the United States at Bikini Atoll, Marshall Islands, as part of Operation Castle. Detonated on March 1, 1954, the device was the most powerful nuclear device detonated by the United States and its first lithium deuteride fueled thermonuclear weapon.[32] Castle Bravo's yield was 15 megatons of TNT, 2.5 times the predicted 6.0 megatons, due to unforeseen additional reactions involving \(^{6}\text{Li}\), which led to the unexpected radioactive contamination of areas to the east of Bikini Atoll.

Fallout from the detonation fell on residents of Rongelap and Utirik atolls and spread around the world. The inhabitants of the islands were not evacuated until three days later and suffered radiation sickness. Twenty-three crew members of the Japanese fishing vessel Daigo Fukuryū Maru ("Lucky Dragon No. 5") were also contaminated by fallout, experiencing acute radiation syndrome. The blast incited international reaction over atmospheric thermonuclear testing.[6]

The device was called SHRIMP and had the same basic configuration (radiation implosion) as the Ivy Mike wet device, except with a different type of fusion fuel. SHRIMP used lithium deuteride (LiD), which is solid at room temperature; Ivy Mike used cryogenic liquid deuterium (D\(_2\)), which required elaborate cooling equipment. Castle Bravo was the first test by the United States of a practical deliverable fusion bomb, even though the TX-21 as proof-tested in the Bravo event was not weaponized. The successful test rendered obsolete the cryogenic design used by Ivy Mike and its weaponized derivative, the JUGHEAD, which was slated to be tested as the initial Castle Yankee. It also used a 7075 aluminum 9.5 cm thick ballistic case. Aluminum was used to drastically reduce bomb's weight and simultaneously provided sufficient radiation confinement time to raise yield, a departure from the heavy stainless steel casing (304L or MIM 316L) employed by contemporary weapon-projects.[6][54:237][9]

Back to the Ancient Greek Engineers

https://en.wikipedia.org/wiki/French_art_salons_and_academies

From the seventeenth century to the early part of the twentieth century, artistic production in France was controlled by artistic academies which organized official exhibitions called salons. In France, academies are institutions and learned societies which monitor, foster, critique and protect French cultural production.
Academies were more institutional and more concerned with criticism and analysis than those literary gatherings today called salons which were more focused on pleasurable discourse in society, although certain gatherings around such figures as Marguerite de Valois were close to the academic spirit.

Academies first began to appear in France in the Renaissance. In 1570 Jean-Antoine de Baïf created one devoted to poetry and music, the Académie de poésie et de musique, inspired by Italian models (such as the academy around Marsilio Ficino).

The first half of the seventeenth century saw a phenomenal growth in private learned academies, organized around a half-dozen or a dozen individuals meeting regularly.[1] By the middle of the century, the number of private academies decreased as academies gradually came under government control, sponsorship and patronage.

The first private academy to become “official” and to this day the most prestigious of governmental academies is the Académie française (“French Academy”), founded in 1634 by Cardinal Richelieu. It is concerned with the French language. In the fine arts, the Académie de peinture et de sculpture (“Academy of Painting and Sculpture”) was founded by Cardinal Mazarin in 1648 and was soon followed by a number of other officially instituted academies: the Académie royale de danse (“Royal Academy of Dance”) in 1661; the Académie royale des inscriptions et médailles (“Royal Academy of Inscriptions and Medals”) in 1663 [renamed the Académie royale des inscriptions et belles-lettres (“Royal Academy of Inscriptions and Literature” or “Royal Academy of Humanities”) in 1716]; the Académie royale des sciences (“Royal Academy of Sciences”) in 1666; the Académie d'Opéra (“Academy of Opera”) in 1669 [renamed the Académie royale de musique (“Royal Academy of Music”) in 1672 and the Académie de musique in 1791]; and the Académie royale d'architecture (“Royal Academy of Architecture”) founded by Jean-Baptiste Colbert in 1671.[1][2]

The French Academy of Sciences (French: Académie des sciences) is a learned society, founded in 1666 by Louis XIV at the suggestion of Jean-Baptiste Colbert, to encourage and protect the spirit of French scientific research. It was at the forefront of scientific developments in Europe in the 17th and 18th centuries, and is one of the earliest Academies of Sciences.

Currently headed by Sébastien Candè [4th president] (President of the Academy), it is one of the five Academies of the Institut de France[1].

Academy of Sciences, French Académie des Sciences, institution established in Paris in 1666 under the patronage of Louis XIV to advise the French government on scientific matters. This advisory role has been largely taken over by other bodies, but the academy is still an important representative of French science on the international stage. Although its role is now predominantly honorific, the academy continues to hold regular Monday meetings at the Institut de France in Paris.

The Academy of Sciences was established by Louis's financial controller, Jean-Baptiste Colbert, to formalize under government control earlier private meetings on scientific matters. In 1699 the Academy received a formal constitution, in which six subject areas were recognized: mathematics, mechanics, astronomy, chemistry, botany, and anatomy. There was a hierarchy of membership, in which the senior members (known as pensioners, who received a small remuneration) were followed by associates and assistants.

The Academy organized several important expeditions. For example, in 1736 Pierre-Louis Moreau de Maupertuis led an expedition to Lapland to measure the length of a degree along the meridian. His measurement verified Isaac Newton's contention that the Earth is an oblate spheroid (a sphere flattened at the poles).

Heron of Alexandria

Heron described[1] the construction of the aeolipile (a version of which is known as Hero's engine) which was a rocket-like reaction engine and the first-recorded steam engine (although Vitruvius mentioned the aeolipile in De Architectura some 100 years earlier than Hero). It was created almost two millennia before the industrial revolution. Another engine used air from a closed chamber heated by an altar fire to displace water from a sealed vessel; the water was collected and its weight, pulling on a rope, opened temple doors.[13] Some historians have conflated the two inventions to assert that the aeolipile was capable of useful work.[14] The first vending machine was also one of his constructions; when a coin was introduced via a slot on the top of the machine, a set amount of holy water was dispensed. This was included in his list of inventions in his book Mechanics and Optics. When the coin was deposited, it fell upon a pan attached to a lever. The lever
opened up a valve which let some water flow out. The pan continued to tilt with the weight of the coin until it fell off, at which point a counter-weight would snap the lever back up and turn off the valve.\textsuperscript{[1]}

A windwheel operating an organ, marking the first instance in history of wind powering a machine.\textsuperscript{[4][5]}

Hero also invented many mechanisms for the Greek \textit{theater}, including an entirely mechanical play almost ten minutes in length, powered by a binary-like system of ropes, knots, and simple machines operated by a rotating cylindrical cogwheel. The sound of \textit{thunder} was produced by the mechanically-timed dropping of metal balls onto a hidden drum.

The \textit{force pump} was widely used in the \textit{Roman} world, and one application was in a fire-engine. A \textit{syringe}-like device was described by Hero to control the delivery of air or liquids.\textsuperscript{[16]}

In optics, Hero formulated the \textit{principle of the shortest path of light}: If a ray of light propagates from point A to point B within the same medium, the path-length followed is the shortest possible. It was nearly 1000 years later that \textit{Alhacen} expanded the principle to both reflection and refraction, and the principle was later stated in this form by Pierre de Fermat in 1662; the most modern form is that the path is at an \textit{extremum}.

A standalone fountain that operates under self-contained hydrostatic energy (\textit{Hero's fountain})

A programmable cart that was powered by a falling weight. The "program" consisted of strings wrapped around the drive axle.\textsuperscript{[17]}

\section*{The History of the Steam Engine}

\url{https://en.wikipedia.org/wiki/History_of_the_steam_engine}

The 1698 \textit{Savery Steam Pump} - the first commercially successful steam powered device, built by Thomas Savery

The first recorded rudimentary steam engine was the \textit{aeolipile} described by Heron of Alexandria in 1st-century \textit{Roman Egypt}.\textsuperscript{[1]}

Several steam-powered devices were later experimented with or proposed, such as Taqi al-Din's \textit{steam jack}, a steam turbine in 16th-century \textit{Ottoman Egypt}, and Thomas Savery's \textit{steam pump} in 17th-century \textit{England}. In 1712, Thomas Newcomen's \textit{atmospheric engine} became the first commercially successful engine using the principle of the piston and cylinder, which was the fundamental type steam engine used until the early 20th century. The steam engine was used to pump water out of coal mines.

During the \textit{Industrial Revolution}, \textit{steam engines} started to replace water and wind power, and eventually became the dominant source of power in the late 19th century and remaining so into the early decades of the 20th century, when the more efficient steam turbine and the \textit{internal combustion engine} resulted in the rapid replacement of the steam engines. The \textit{steam turbine} has become the most common method by which electrical power generators are driven.\textsuperscript{[12]} Investigations are being made into the practicalities of reviving the reciprocating steam engine as the basis for the new wave of \textit{advanced steam technology}

\section*{Some Side Thoughts about Stealth Aircraft}

Picking up some dangling bits and pieces of the Klingon Cloaking Device. Pretty much the same thinking holds for present-day Stealth Aircraft which are not so stealthy at all. You can see them pretty well as they are flying around in the skies. Stealth is completely a matter of frequency or better the wavelength of electromagnetic radiation. The technology of Stealth Aircraft does one thing only. They make it difficult for the X-band radars of your friendly enemy to track and home in on you, and just at this exact wavelength of the X-band radars. It just makes the tracking and homing of anti-aircraft missiles a little more difficult. On anything with a longer wavelength you are pretty well visible. So in the VHF and UHF bands of conventional radars you are about as visible as a christmas tree with so many flashlights. So no stealth at all. And this gives a stealthy aircraft just some valuable seconds or minutes before they are detected anyhow. And when it comes to the wavelength of visible light you are out of luck totally. And the North Koreans have in their arsenals some 10,000 old anti-aircraft guns from surplus USSR armories which they had bought very cheaply. And when you have a couple 1000 anti-aircraft guns with nothing else than optical sights, which cannot be deceived at all by stealth, you just need some good eyeball technology version 1.0 and then some lucky shots, and then goes the Stealth Aircraft down with Kaboom - Bâng - Bâng. Of about 200 Million $$ over-the-counter price. And we add some surprising biological data: Because the North Koreans are so poor, they don't have so much in terms of Television. That translates directly into a superior eyesight. Nowadays more than half of the children in the West and in China need glasses, because of TV, Gaming Computers, and pretty bad on top of this, the new LCD lights and the LCD screens that emit light wavelengths that can make you blind. Because of the very high percentage of blue light of 7000 Kelvin. And this kind of light will just eat away your Melatonin, and this causes pretty bad insomnia.

And the intelligent forecasters of Aviation Technology are pretty well able to predict: There will come a day when the combined Air Forces of the USA will be able to pay for ONE aircraft only. Then they have to share it: The Air Force can have it to fly from 06:00 in the morning until 14:00 sharp, and then the Navy Air Force
Although the trade with the Far East was the more famous of the VOC's exploits, the main source of wealth was expensive, reflecting the prices of spices at the time. To finance the growing trade within the region, "Moedernegotie") the Dutch imported enormous amounts of bulk resources like grain and wood, stockpiling them in Amsterdam so Holland would never lack for basic goods, as well as being able sell them on for profit. This is remembered to this day in the Dutch word peperduur (as expensive as pepper), meaning something is very expensive, reflecting the prices of spices at the time. To finance the growing trade within the region, the Bank of Amsterdam was established in 1609, the precursor to, if not the first true central bank. Although the trade with the Far East was the more famous of the VOC's exploits, the main source of wealth for the Republic was in fact its trade with the Baltic states and Poland. Called the "Mothertrade" (Dutch: "Moedernegotie"), the Dutch imported enormous amounts of bulk resources like grain and wood, stockpiling them in Amsterdam so Holland would never lack for basic goods, as well as being able sell them on for profit. This meant that unlike their main rivals the Republic wouldn't face the dire repercussions of a bad harvest and the starvation it accompanied, instead profiting when this happened in other states (bad harvests were commonplace in France and England in the 17th century, which also contributed to the Republic's success in that time). In time the Dutch traders gained such a dominant position in Poland and the Baltic they all but turned into de facto satellite states.

British Lessons: How to handle the Ammunition in the Bad Way

There are some good historical lessons learned by the Britisher's in the Battle of Jutland, that you should never have a surplus of ammunition sitting around, especially when an enemy grenade just hits this ammo. So some of those nice battleships just blew up. And the good Admiral Jellicoe just remarked to his captain: What is the matter with those bloody ships of ours? Such are the pitfalls of overconfidence. The loss of the Battle Cruiser Hood was pretty much the same problem.

The Dutch Golden Age

https://en.wikipedia.org/wiki/Dutch_Golden_Age

The Dutch Golden Age (Dutch: Gouden Eeuw Dutch pronunciation: [ˈudə(n) eu]) was a period in the history of the Netherlands, roughly spanning the 17th century, in which Dutch trade, science, military, and art were among the most acclaimed in the world. The first section is characterized by the Eighty Years' War, which ended in 1648. The Golden Age continued in peacetime during the Dutch Republic until the end of the century. The transition by the Netherlands to the foremost maritime and economic power in the world has been called the "Dutch Miracle" by historian K. W. Swart. Several other factors also contributed to the flowering of trade, industry, the arts and the sciences in the Netherlands during this time. A necessary condition was a supply of cheap energy from windmills and peat, easily transported by canal to the cities. The invention of the windpowered sawmill enabled the construction of a massive fleet of ships for worldwide trading and for military defense of the republic's economic interests.

Birth and wealth of corporate finance

In the 17th century the Dutch — traditionally able seafarers and keen mapmakers — began to trade with the Far East, and as the century wore on, they gained an increasingly dominant position in world trade, a position previously occupied by the Portuguese and Spanish. In 1602, the Dutch East India Company (Dutch: Verenigde Oostindische Compagnie or VOC) was founded. It was the first-ever multinational corporation, financed by shares that established the first modern stock exchange. The Company received a Dutch monopoly on Asian trade, which it would keep for two centuries, and it became the world's largest commercial enterprise of the 17th century. Spices were imported in bulk and brought huge profits due to the efforts and risks involved and seemingly insatiable demand. This is remembered to this day in the Dutch word peperduur (as expensive as pepper), meaning something is very expensive, reflecting the prices of spices at the time. To finance the growing trade within the region, the Bank of Amsterdam was established in 1609, the precursor to, if not the first true central bank. Although the trade with the Far East was the more famous of the VOC's exploits, the main source of wealth for the Republic was in fact its trade with the Baltic states and Poland. Called the "Mothertrade" (Dutch: "Moedernegotie"), the Dutch imported enormous amounts of bulk resources like grain and wood, stockpiling them in Amsterdam so Holland would never lack for basic goods, as well as being able sell them on for profit. This meant that unlike their main rivals the Republic wouldn't face the dire repercussions of a bad harvest and the starvation it accompanied, instead profiting when this happened in other states (bad harvests were commonplace in France and England in the 17th century, which also contributed to the Republic's success in that time). In time the Dutch traders gained such a dominant position in Poland and the Baltic they all but turned into de facto satellite states.

Something Strange about the Spartans

The Spartans were a pretty extreme ethnia in the whole of the Ancient World. Their society was entirely based on and geared to ONE THING ONLY: War. Even the famed Samurai of Japan could not come close to that Warrior Ethos of the Spartans. So they also serve as a good model for the Klingon Empire. It is like an "if it were that the Spartans had built an Empire". Which of course was impossible for the Spartans.

The Crypteia

The Spartans also had an interesting ritual called the Crypteia. It was a kind of initiation ritual for the young warriors to become full-fledged Spartan warriors. Because the young candidate had to kill a Helot. And this was so easy that it could not be called a great deed at all. Since the Helots were forbidden to carry any sort of weapon, they were easy prey. But it is very doubtful that the Crypteia served any practical purpose or was it just some sardonic theater to inflict some terror on the poor Helots? Even catching a hare was much more difficult compared to this. In other not-so cultures it was pretty much more of an initiation ritual because that
According to Cartledge, Krypteia members stalked the helot villages and surrounding countryside, spying on them and gathering intelligence. This was the state of constant warfare of every tribe against every other tribe in New Guinea. So it came to pass that no-one in his right mind would go anywhere alone. And you always better carry your weapons around with you. This was the state of constant warfare of every tribe against every other tribe in New Guinea. So it came to pass that no-one in his right mind would go anywhere alone, not even to the toilet. So the going to the toilet was also a community ritual. The island of New Guinea was not such a nice place to live in, and the only one who had no idea what was going on, was the good Jared Diamond. At least I had never found in all of his books any two words about that constant warfare. To the contrary, the good Jared did everything he could do to explain that the New Guinean's were as intelligent as all the rest of humanity. Which is really true, but since the New Guinean's were always on the war path (as Karl May would have said it) ... They just didn't have any time at all to spare than to think about the next blood revenge to revenge some distant relative of poor you, who had been killed by the (not-so-) friendly neighboring tribe. So as a corollary, when you think all the time about killing and not being killed yourself, you have practically no time to do anything creative. Like inventing an aeroplane, for example. There are some nice anthropological tales to tell about the Cargo Cult of these islands. But this is another matter. One can get it quite easily when one googles "Cargo Cult".

https://en.wikipedia.org/wiki/Crypteia

The **Crypteia** or **Krypteia** (Greek: κρυπτεία krypteia from κρυπτός kruptós, "hidden, secret things") was an ancient Spartan state institution involving young Spartan men. Its goal and nature are still a matter of discussion and debate among historians, but some scholars (such as Henri-Alexandre Wallon) consider the Krypteia to be a kind of secret police and state security force organized by the ruling class of Sparta, whose purpose was to terrorize the servile helot population. Others (including Hermann Köchly and Wilhelm Wachsmuth) believe it to be a form of military training, similar to the Athenian *ephebia*.

Certain young Spartan men who had completed their training at the *agoge* with such success that they were marked out as potential future leaders would be given the opportunity to test their skills and prove themselves worthy of the Spartan polity through participation in the Krypteia. Every autumn, according to Plutarch (*Life of Lycurgus*, 28, 3–7), the Spartan ephors would *pro forma* declare war on the helot population so that any Spartan citizen could kill a helot without fear of punishment. At night, the chosen *kryptes* (κρυπτές, members of the Krypteia) were sent out into the Laconian countryside armed with knives with the instructions to kill any helot they encountered and to take any food they needed. They were specifically told to kill the strongest and best of the helots. This practice was instigated to prevent the threat of a rebellion by the helots and to keep their population in check.

According to Cartledge, Krypteia members stalked the helot villages and surrounding countryside, spying on the servile population. Their mission was to prevent and suppress unrest and rebellion. Troublesome helots could be summarily executed. Such brutal repression of the helots permitted the Spartan elite to successfully control the servile agrarian population and devote themselves to military practice. It may also have contributed to the Spartans' reputation for stealth since a *kryptes* (κρυπτής) who got caught was punished by whipping.[1]

Only Spartans who had served in the Krypteia as young men could expect to achieve the highest ranks in Spartan society and army. It was felt that only those Spartans who showed the willingness and ability to kill for the state at a young age were worthy to join the leadership in later years.

*Plato* (*Laws*, I, 633), a scholiast to Plato, and *Heraclides Lembos* (*Fr. Hist. Gr.*, II, 210) also describe the krypteia.

On the battlefield

In his *Cleomenes*, Plutarch describes the Krypteia as being a unit of the Spartan army; during the battle of Sellasia, the Spartan king Cleomenes "called Damoteles, the commander of the Krypteia, and ordered him to observe and find out how matters stood in the rear and on the flanks of his army".[2] Various scholars have speculated on the presence and function of the Krypteia on the battlefield, describing it as a reconnaissance, special operations, or even military police force.[2]

As rite of passage

Jeanmaire points out that the bushranger life of the Krypteia has no common point with the disciplined and well-ordered communal life (see *Homonoia*) of the Spartan *hoplite*, but as it is only a short part in a very long and thorough training, this could precisely fit an additional skill useful when separated from one's unit. Jeanmaire suggests that the Krypteia was a *rite of passage*, possibly pre-dating the classical military organisation, and may have been preserved through Sparta's legendary religious conservatism. He draws comparison with the *initiation* rituals of some African secret societies (wolf-men and leopard men).[1]

**Helots and Crypteia**

https://en.wikipedia.org/wiki/Helots

https://medium.com/interesting-histories/interesting-histories-helots-the-slaves-of-sparta-46b70ebfd05

85
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About Japanese Samurai and Yamabushi and Shingon

I am now telling another tall story: Even the fearsome Japanese Samurai couldn't manage to completely enslave their peasant population since the Samurai always needed an Over-Lord to command them and whom they followed into their deaths, which happened quite often. When the Over-Lord was killed, it was the honorable occasion for the all the good Samurai troops in his entourage to commit wholesale Sepukku, meaning Harakiri. Because as a honorable Samurai, to be out of an Overlord (being a Ronin), was the ultimate disgrace. And that could only be absolved by committing Sepukku.

So the Japanese Overlords just nearly kept the Japanese peasant class as their personal slaves, but there were limits to their power, because of the Shinto Way of Life, and the Yamabushi (Shinto) and Shingon (Buddhist sort-of) sects. These were some quite strange Anachoretes who lived in the mountains. They also practiced the High Art of Self-Mummification, of which I have reported in Part I. And there are quite a few shrines where you can see them and visit them. Fortunately I have some youtube videos about this, otherwise no-one would believe me. And the mountains were sacred spaces in the Japanese Shinto mind. Since Japan is more or less a collection of Volcanoes on the Pacific Rim of Fire, there are consequently a few more mountains in Japan than there is flat arable land. And so it came to pass, that the Overlords and their Samurai dominated the plains and the rice fields of the peasants, but they did better to avoid the mountains. Besides being sacred and being hard to get into them, it was much more difficult to get out of them. As the saying goes: Some things are easier to get into, than to get out of. And especially in the southern islands of Japan where the vegetation is sub-tropical. It was very easy to get totally lost there and wander around for a few days without food and water, and this was it. People disappeared without any trace left. So it was said that the spirits of the mountains had taken care of them. And the Yamabushi's and later the Shingon's dominated the mountains and the Over-Lords of the plains couldn't do anything about them. There was another quirk to it. Only the Samurai were privileged to carry their swords, the Katana. And for all the other people it was forbidden at the punishment of death to carry weapons. But the Japanese were inventive as usual. Instead of a sword they carried an iron fan. They were quite handy and very unsuspecting because everyone in Japan carried a fan. So they used the fans as weapons and then could defeat even the Samurai.

Hacke / Haue: How to Defeat some Samurai

hm noun / Hacke f /
A hoe is a tool used for gardening. Eine Hacke ist ein Werkzeug, das zum Gärtnern verwendet wird.

There was just another famous story of a peasant son who carried his steel rake or hoe as he was working the field of his father. And there came along two Samurai who were quite drunk. And they threatened the poor guy. So what he did with his hoe, he hacked the Samurai to pieces. Such good use one can make of a peasant’s tool. Of course the authorities could not allow such a thing, because a peasant may never do anything against a Samurai even in self-defence. So this poor guy had to flee into the mountains, and there he became a famous Yamabushi or Shingon saint. This story is from Part I of this book. I will look this up the next time when I have some time to spare. Another tall story is that of Musashi. He was the greatest warrior, er slaughterman of his day. What very few people know today is that he almost never used a sword (katana) in his fights. He either used a wooden stick (bokken) or some other ad-hoc weapon. So he took his opponents quite by surprise because they had known only the tactics to use against another sword or a lance.

https://en.wikipedia.org/wiki/Miyamoto_Musashi

The revenge of the forty-seven rōnin (四十七士 Shi-jū-shichi-shi, forty-seven samurai), also known as the Akō incident (赤穂事件 Akō jiken) or Akō vendetta, is an 18th-century historical event in Japan in which a band of rōnin (leaderless samurai) avenged the death of their master. The incident has since become legendary. The story tells of a group of samurai who were left leaderless (becoming rōnin) after their daimyō (feudal lord) Asano Naganori was compelled to perform seppuku (ritual suicide) for assaulting a court official named Kira Yoshinaka, whose title was Kōzuke no suke. After waiting and planning for a year, the rōnin avenged their master's honor by killing Kira. In turn, they were themselves obliged to commit seppuku for committing the crime of murder. This true story was popularized in Japanese culture as emblematic of the loyalty, sacrifice, persistence, and honor that people should preserve in their daily lives. The popularity of the tale grew during the Meiji era, in which Japan underwent rapid modernization, and the legend became entrenched within discourses of national heritage and identity. Fictionalized accounts of the tale of the Forty-seven Ronin are known as Chūshingura. The story was popularized in numerous plays, including bunraku and kabuki. Because of the censorship laws of the shogunate in the Genroku era, which forbade portrayal of current events, the names were changed. While the version given by the playwrights may have come to be accepted as historical fact by some, the first Chūshingura was written some 50 years after the event, and numerous historical records about the actual events that predate the Chūshingura survive. The bakufu's censorship laws had relaxed somewhat 75 years later in the late 18th century, when Japanologist Isaac Titsingh first recorded the story of the forty-seven rōnin as one of the significant events of the Genroku era. To this day, the story continues to be popular in Japan, and each year on December 14, Sengakuji Temple, where Asano Naganori and the rōnin are buried, holds a festival commemorating the event.

So back to the Spartans. They managed the upkeep of this superior warrior class and they were the Overlords of the Helots. And this was a very interesting type of Slave Holder Society. But they never managed to form an empire. Because this kind of society was in a sense self-limiting. The poor Spartans just didn't have the polirical wits and acumen to subjugate the whole of ancient Greece as their slaves. And finally they were defeated by the sacred band of Thebes who outfought the Spartans by a narrow margin. The ancient Greeks were of course Aryans and as such they were fiercely independent warriors, so they could not be subjugated for long until they rose again. Like the Persians had to find out to their detriment. The Helot population of the Spartans were not the Aryan Greeks at all but they were the autochthonous indigenous population of that area on the Peloponnes. Their societal and spiritual system was of the much much older type that Marija Gimbutas had described in her works. So there are some parallels with ancient Vedic Indian body politics since the untouchables were also the indigenous Dravidic population whereas their Overlords were the Aryans who had invaded India some millennia back in the dark depths of Pre-history. The Vedas especially the Rig Veda depict
quite vividly those battles that the Aryans fought against the Dravidic's. And this is quite a good piece of political propaganda, where the Dravidic's were always the dark dark bad guys. And this is quite literally so, since "autochthonous" derives from chthon, and this was the dark mother goddess, the Kali in Vedic terms. But she had also found her rightful place in the Pantheon of the Vedics, since they knew well enough that one cannot exorcise the dark gods. So the vedics preserved the rite and the cults of the dark Mother Kali and that just was the Cult of the Thugees or Thugs.

[Like the Zoroastrians, Manichaeans, and the Gnostics, and finally the Christians tried to extinguish the older Goddesses, but in vain. And I have come up with quite a remarkable parallel to the Kali, and this was the Black Madonna. Not even the Christians could exorcise the black Mother Goddess completely, even if the good Church Fathers tried as much as they could. She faithfully re-appeared in just another (dis-) guise. ]
Appendix VIII: Wolfgang Amadeus Mozart

To be a Genius, you must be Mad


Introduction

Wolfgang Amadeus Mozart (1756-1791) is considered by many to be the best composer of all time. He left behind over 600 pieces of work, including more than 50 symphonies, 27 vocal concertos, 26 works for string quartets, 25 piano concertos, 21 operas, 17 piano sonatas, 15 masses and 12 violin concertos. Several of his works are considered some of humankind's best musical creations. However, despite his genius and fame, Mozart's life was short and he suffered great financial difficulties and multiple diseases, including scarlet fever, smallpox and typhus. It is said that he used a language (spoken and written) associated with behaviours that have led several authors to consider the possibility that the Austrian genius may have suffered from Gilles de la Tourette syndrome, described by the French neurologist after whom it was named in 1885. The main characteristics of this condition are: simple and complex vocal and motor tics, which arise between 2 and 15 years of age and persist for over 12 months. Onset should not occur after 18 years of age. Coprolalia, coprographia and copropraxia may be present in 30% of cases. Symptoms decrease with the passage of time and are significantly reduced in adult life.

This article draws a parallel between the life of the musical genius and the main findings that indicate this possibility.

Biographical data

Wolfgang Amadeus Mozart was born on 27 January 1756 in Salzburg. He was the son of Leopold Mozart (1719-1787), a composer at the Salzburg court, and Anna Maria Pertl (1720-1778). His parents married in 1747 and had six children, only two of whom reached adulthood: Maria-Anna, known as "Nannerl" (1751-1829), and Wolfgang Amadeus (Amadeus means "loved by God") (Fig. 1). Wolfgang married Constanze Weber (1763-1842) in 1782 and the couple had two sons, Karl (1784-1858), who was a trader, and Wolfgang (1791-1844), a composer and pianist.

Variations of the genius's name

It is well known that Mozart introduced himself with different variations of his name depending on the region, era or a particular whim at the time. His middle name, Amadeus, as we know it today, seems to be a “joke” or, rather, another of his uncontrollable and amusing impulses. The most common are “Wolfgango Amadeo”, as he called himself in Italy in 1770, and from 1777 onwards, “Wolfgang Amadé”, which was possibly his favourite, as this was the name he used to sign his certificate of marriage to Constanze. However, other more exotic variants included “Wolfgang Gottlieb” and “Trazom” (Mozart backwards). He only used “Wolfgangus Amadeus Mozartus” as a joke or gag, as seen in letters where, as well as his name, both the date and other words end in -us, which is ironic, given that it ended up being the name that stuck after the 19th century to the present day.

If we examine this situation in detail, it can be inferred that perhaps this custom of using multiple names was not only an eccentric trait, but also evidence of uninhibited complex tics and impulses that could be explained by Tourette’s.

Mozart’s early life was marked by his artistic genius. Figures as important as Goethe, Grimm, Haydn, Wagner, Kierkegaard and Barth spoke in glowing terms of his extraordinary talent. As soon as his father discovered his musical skills, he decided he would do everything he could to turn him into a great musician and to devote the rest of his existence to educating his children. Fortunately for humanity, Leopold was an excellent teacher. Although he was always strict when imparting lessons to his children, instilling a sense of ethics and effort, he managed to make music lessons fun. This enabled both of them to excel, at least in principle, alongside each other.

Mozart had virtually no other teacher. At 6 years of age, he played short pieces of music that his father carefully turned into scores (minuets K. 1, 2, 3, 4, 5). By then, Leopold felt it was time to perform at the courts of Europe.

The trips were exhausting, the weather conditions sometimes harsh and Mozart had ill health. He is known to have suffered from scarlet fever, recurring tonsillitis, smallpox and typhus. He ate irregularly and undertook excessive physical and intellectual work, which affected him considerably. He also suffered from symptoms of jaundice, which were probably linked to viral hepatitis (Table 1).
Later, he followed Hieronymus, the Prince-Archbishop of Salzburg, to Vienna, who mistreated him. Following an altercation, he decided to move into the Weber family home in the capital. In 1782, he married Constanze Weber. He then began to encounter significant financial difficulties, which would last for the rest of his life. Mozart had great successes, such as the opera *The Marriage of Figaro*, which premiered in Vienna on 1 May 1786. He would enjoy even greater and more lasting success in Prague. In this city, Mozart had admirers like in no other. His triumphs were celebrated and sessions are described in which he demonstrated his extraordinary improvisation skills. A music impresario by the name of Bondini asked him to write another opera, and thus *Don Giovanni* was born, which he premiered and conducted on 29 October 1787, with extraordinary success.

He returned to Vienna, where his poor financial circumstances persisted, in addition to his wife's health issues. Mozart was also named the Emperor's chamber composer, but his earnings remained insufficient. He sought to improve them by undertaking different music-related activities, including composing, teaching and conducting, but the conditions were extremely difficult. The last three years of his life were marked by enormous financial and emotional hardship, but were, from an artistic point of view, the most fruitful. His last three symphonies, considered by experts to be the most beautiful, were composed over a six-week period in 1788. *Cosi fan tutte* ("Women are like that") was written in Vienna in 1790, and he composed three other important pieces in 1791 simultaneously: *The Magic Flute* and *The Clemency of Titus*, for the coronation of Leopold II in Prague, and *Requiem*, a piece commissioned by a mysterious character who wished to remain anonymous.

Between 1780 and 1790, the great composer started to present significant depression. He was visited by a mysterious character who entrusted him with composing a requiem mass in exchange for 30 ducats. The master composer accepted the proposal. He suffered episodes of loss of consciousness, probably syncopal, and started to think that he was writing his own requiem mass, that his days were numbered, he was being poisoned and that his deterioration was evident. At the end of November, in a state of dismay, he worked a bit more on composing the piece, but while working on the *Lacrymosa*, he burst into tears and felt he was unfit to finish it. Mozart issued instructions to his student Süssmayr, with whom he spent most of his time in the final few months. Mozart was convinced he had been poisoned, and even claimed it had been with Aqua Tofana, a substance containing lead.

With admirable talent and respect, Süssmayr, following the death of his teacher, filled the gaps in the work (only *Requiem* and *Kyrie* were completely finished) and wrote *Sanctus* and *Agnus*. Aged 36, the greatest genius in the history of music died on 5 December 1791 at around one o'clock in the morning. His death certificate stated "miliary fever" as the cause of death. However, subsequent analysis of his medical history, which has been extensively studied by various authors, reveals that the most probable cause of death was actually chronic nephritis and, in turn, end-stage kidney disease. Mozart's personality has been described as frivolous, eccentric, restless and unpredictable, and he expressed himself with exaggerated grimaces and gestures. His friend Joseph Lange, the husband of Aloysia Weber, saw Mozart's need to expose himself and his radical decision to let himself go as a way of escaping all that had been denied to him throughout his life. His music did not communicate his state of mind, but rather his process of self-control.
Appendix IX: Some Addenda to: Das Gold im Wachs

Inhalt

TABULA GRATULATORIA 9
Dieter CHENAUX-REPOUDE
Vorwort 16
Robert SCHINZINGER
Geleitwort
Lebendige Japankunde 19
Margret DIETRICH
Profil 22
Biographische Daten 29
Verzeichnis der Veröffentlichungen von Thomas Immoos 31

I
PROLEGOMENA ZU EINER THEOLOGIE DES SHINTÖ
Ernst Chr. SUTTNER
Wachs und Gold 43
Kaspar HÜRUMANN
Philosophische Erkundungen der Symbolik 47
Gaudenz DOMENIG
Das Götterland jenseits der Grenze.
Interpretation einer altjapanischen Landnahmelegende 61
Fred THOMPSON
Archaische Raumordnung im Shintd-Fest (Matsuri).
Shiraiwa und Kakunodate (Akita) 81
Herbert PLUTSCLOW
Kotodama. Der Wortgeist in der japanischen Literatur 93

II
VOM KULT ZUM THEATER
Hans Jörg AUF DER MAUR
Die Gnade tanzt.
Das Tanzritual der apokryphen Johannesakten und seine Bedeutung 109
Kakichi KADOWAKI
»Die Taufe Jesu«
Nō-Drama und Messe 147
Günter ZOBEL
Okina und Shishi.
Zwei Themen kultischer Dramaturgie bei Thomas Immoos 155
Stanca SCHOLZ-CIONCA
Der Granatapfel. Zur Feuersymbolik des Tenjin im Nō 175
Frank HOFF
Sehen und Gesehen-werden im Nō 187
Toshio KAWATAKE
Einführung in die Feldtheorie des Theaters 207
Moriya OKANO
Das Nd-Spiel und die Yuishiki-Lehre 223
Tatsuji IWABUCHI
Die Brecht-Rezeption in Japan aus der Perspektive der Theaterpraxis 249

III
LITERATUR UND KUNST ALS GRENZÜBERSCHREITUNG
Heinrich DUMOUNLIN
Die Malerei des Zen-Meisters Hakuin als Ausdruck religiöser Erfahrung 267
Margret DIETRICH
Mit japanischen Augen sehen. Ein Essay zu Maurice Maeterlinck 303
Review: Das Gold im Wachs

Das Gold im Wachs: Festschrift für Thomas Immoos zum 70. Geburtstag
[Gold in Wax: Festschrift for Thomas Immoos on his 70th Birthday]
Elisabeth Gassmann and Gunter Zobel, ed.
Reviewed by Martin REPP, Kyoto

THIS FESTSCHRIFT in honor of Thomas Immoos, with its nearly thirty contributions, reflects the broad horizons of the Swiss priest who has lived in Japan since 1951 and has taught at Sophia University since 1956. Although diverse in content, the mutual encounter of East and West and common search for divine reality in this world bind the various chapters together. The volume begins with an introductory section, which includes essays honoring Immoos and a bibliography of his writings. The remainder of the volume is divided into four main parts:
(1) prologomenon to a theology of Shinto,
(2) from cult to theater,
(3) transcending the borderline of literature and art, and
(4) dialogue of religions.

Ernst Suttner:
The title of the volume is derived from the first contribution by Ernst Suttner who draws on an Ethiopian theory of church hymns to explain how the method of casting gold is used to express the manner in which divine reality is revealed in the world. The form for a golden artifact is itself taken from a wax model, so the wax in some sense represents the precious gold and serves as a symbol for the appearance of the divine in our world.

The remaining articles focus in various ways on this divine-world (human) relationship.

Kaspar Hürlimann shows the finite as a symbol for the infinite in his philosophical essay on the meaning of symbols.

Kimura Naoji explains Goethe's understanding of symbols.

Ueda Shizuteru also considers the question of symbols through a study of Nishida's philosophy of religion, especially his use of such terms as "logic of topos," "pure experience," and "absolute contradictory self-identity."

Heinrich Dumoulin reflects on the nature of transcendence through the transparency in Hakuin's paintings: all things become a simile for Buddha-reality.

Gaudenz Domenig interprets an ancient legend (from the Hitachi Fudoki) on occupying new territory as describing the human space situated between two realms of the gods, and uses this as a basis to critique Eliade's concept of vertically oriented "holy space."

Fred Thompson provides a descriptive analysis of the "archaic space order in a Shinto matsuri (festival)."

Herbert Plutschow traces kotodama (word spirit) in ancient Japanese literature and convincingly demonstrates that even the poem competitions and the exchange of poems between lovers have been more than just secular events. The "mana" spirit in the word and thus in poetry moves "earth and heaven without any (physical) effort."

Gunter Zobel: The divine-human relationship is also explored in the articles gathered under the theme "cult and theater." In this section there are contributions by Gunter Zobel on Noh and related subjects,

Stanca Scholz-Cionca on the fire-symbol of the Tenjin,

Frank Hoff on "seeing and being seen in Noh,"

Kawatake Toshio on a field theory of theater,

Okano Moriya on Noh and yuishiki teaching, and

Iwabuchi Tatsuji on Bert Brecht's reception in Japan.

Several essays explore the nature of self-transcendence in literature. Margaret Dietrich considers the work of Maurice Maeterlinck, and two articles focus on the work of Friedrich Schlegel:

Tomita Takemasa considers his understanding of knowledge and faith, and

Nakai Chiyuki deals with his understanding of myth and revelation.

The final section on the theme of interreligious dialogue also contains a number of interesting essays.
Hans Waldenfels considers the influence of Asian religiosity on society and culture.

Elisabeth Gassmann and Okano Haruko analyze the striking parallels between the Christian and Buddhist notions of final paradise (reached by women only by being transformed into a male) in their challenging article "Heaven without Women." This essay draws on both Eastern and Western sources that reflect the social status of women. The early history of Christianity in Asia is covered in two essays.

Hubert Cieslik writes on "Kirishitan and Yamabushi," drawing on the reports of early missionaries on the mountain ascetics and the relationship between the two religious groups during this period.

Erwin Schurtenberger's essay on "Christianity and China" consists of a critical examination of Gernet's book Chine et christianisme, action et reaction. Two philosophical contributions deal with the relationship between East and West.

Harro von Senger writes on "The Chinese and Neo-thomism," and Johann Figl considers Nietzsche's understanding of Buddhism during his early years.

Jan van Bragt:
The problem of a possible foundation for Buddhist-Christian dialogue is examined by Jan van Bragt who considers the extent to which Jodo Shinshii can become a bridge between the two religions.

James Heisig:
In a thought-provoking essay James Heisig discusses what sort of depth psychology (one of Father Immoos' major interests) can serve as a common basis for the encounter of Christianity and Buddhism.

Gold im Wachs proves to be a fitting tribute to Thomas Immoos and his outstanding scholarly work. Readers of German who are interested in the encounter between East and West will be highly rewarded by seriously considering this collection of essays.

Appendix X: Technical Issues of Hypertext Data Base Design

Some Tech Talk on the side effects of Encrypted Files

I don't know any better place to put this. The original file became too big, even for my very big computer to handle it. Which had in the .rtf format about 10 Megabytes. This is a little tradeoff or "drawback" when using the .rtf format. It is so much larger than the compacted .doc format. And since the .doc format becomes so easily corrupted, it is safer to use .rtf, which is a text file, of sorts. And the since the .docx format is also encrypted, ONE MAY NEVER USE .DOCX EITHER!!! You will come to regret it some day, when your term paper is due, or your whole dissertation, and then your computer goes kaboom! And then you have lost so much precious lifetime.

Never trust the MS- Data Protection Schemes. You have been warned!
They are only there to protect the MS patent and trade secrets.

And to handle the .rtf format with about 10 Megabytes is only possible with present-day computers. Even 15 years ago, a 10 Megabyte MS Word .rtf file would have been difficult to handle. I know this since the XP computer on which I am presently running MS Word 2000, is of 2006 or so vintage. Of course when I bought the computer, it was a HP Elitebook 2730p. It was the smallest, the fastest, and the most expensive tablet Computer of the time. And it even had a pen to write the input on the LCD touch screen. It was quite a marvel for its time. I know this because it originally had MS Win Vista as OS. The first thing I did with the computer, was to rip out MS Vista, and install MS Win XP. Some time later I even put MS Win 7 on top of that. It all ran, and still runs like a charm.. And I had bought it used and quite cheap, at about 1/4 of the original price. Since I always buy my computers used, and since I run on them Win 7 maximum, they also run quite a bit more fast than today's super duper computers with Win 10.

https://www.laptopmag.com/reviews/laptops/hp-elitebook-2730p
The HP EliteBook 2730p offers strong performance and endurance with a well-rounded feature set and a good pen experience. Its $1,599 **price** is very competitive, considering the Lenovo ThinkPad X200 Tablet starts at $1,884 and the Dell Latitude XT costs north of $1,700. Apr 2, 2009

**MS Win Vista as crappy as any OS can ever get**

https://en.wikipedia.org/wiki/Windows_Vista

**Windows Vista** is an **operating system** that was produced by **Microsoft** for use on personal computers, including home and business **desktops**, **laptops**, **tablet PCs** and **media center PCs**. Development was completed on November 8, 2006,[2] and over the following three months, it was released in stages to computer hardware and software manufacturers, business customers and retail channels. On January 30, 2007, it was **released worldwide**[3] and was made available for purchase and download from the Windows Marketplace; it is the first release of Windows to be made available through a **digital distribution platform**.[7] The release of Windows Vista came more than five years after the introduction of its predecessor, **Windows XP**, the longest time span between successive releases of **Microsoft Windows** desktop operating systems.

**Handling Very Large Data Sets**

So we do some more tech-talk. We are dealing with the methods of handling the very large Data Sets of Project Noologie and Hagia Sophia. The techniques used are Hypertext and the Logics of Data Base Design. Because to build an extremely large Data Base like the present project is something quite different from, lets say a commercial Data Base. See the passage below where we do some exploration of the Amazon Data Base and how it is used. Now the Data of the Project Noologie and Hagia Sophia are unstructured. They are texts, articles, books, pictures, and videos. And the Hypertext Data Base has to ensure that they can be accessed, and most importantly, we need some categories by which they are ordered. And here comes the Warburg Library. I refer to the relevant information in the articles on the Aby Warburg Library:

http://www.noologie.de/aby.htm
http://www.noologie.de/aby.pdf
http://warburg.libguides.com/classification
http://www.noologie.de/warburg-class.html

[[As an introjection, here is some information how Amazon builds and maintains its Data Base. There we have a quite strictly defined data structure and an Item Number. Each item has to have its unique number. Then there is a set of data connected to the items that are stored and retrieved. Like a huge mass of items (wares) in an inventory of a (very) huge store like Amazon. One has a very long list of these items, where they are stored in the warehouse, how many of them, what they cost, and many more data on the items or things that are to be sold. Then one has another list, which is the customer list. All the data on and about them. What they bought, what they also bought, what payment, and a very important information, WHERE they live. Is it an affluent neighborhood, or a poor one? When people buy cars or sports equipment, or even book some (Amazon sponsored) leisure activities, this is the place where Amazon can really cash in. Because this will give them a psychological profile of their customers. Anyone who has ever bought anything from Amazon, may be surprised how much Amazon knows about their customers.

https://www.investopedia.com/terms/p/predictive-analytics.asp
https://www.investopedia.com/terms/s/social-networking-service-sns.asp
https://www.investopedia.com/terms/s/socialcapital.asp
https://www.investopedia.com/terms/b/big-data.asp
https://www.bernardmarr.com/default.asp?contentID=712

I can't really divulge too much, but reading the other answers I want to make sure people don't get the wrong impression. As most people correctly wrote, Amazon **does not** use an RDBMS (a traditional relational DB, e.g. Oracle) to store product data. RDBMSs simply don't support the required scale (amount of data and query throughput/latency).

According to external sites (e.g. this one[1]) Amazon has on the order of half a billion products for sale, and that's just the main US site (admittedly the biggest). According to this[2], it serves roughly 1B pages per day, which is roughly 10,000 pages per second on average, and much higher at peak.
As someone else observed, there is also no single DB used throughout Amazon. That was actually true in the very early days, when a single Oracle instance stored everything: product data, user accounts, orders, inventory... This hasn't been the case for many, many years now. However, there is a single “conceptual” DB that stores the vast majority of product information displayed on the site. It's huge, super-fast, and extremely available. This DB isn't DynamoDB, or any other DB publicly available on AWS (RedShift, Aurora, etc.) It's proprietary and private. This isn't to say that you couldn't build our catalog on top of one of those; I honestly don't know.

*Edit:* thanks to Vipul Patel, who works on the team that owns the database in question, for pointing out the team page on the Amazon Jobs site that includes the following excerpt (my emphasis):

We own one of the largest NoSQL databases in the world, serving trillions of requests daily. And we develop world-class solutions leveraging AWS technologies where we can (and build our own where we cannot).

**Footnotes**

[3] Fast Data Technologies

Amazon has a total of 536,641,219 products on sale.

In comparison. Amazon had 372 million products on June 20th, 2017.


End of introjection.

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The Headlines of the Present Text are the Topmost or the Root Level.

The Headlines of the present text (xxx.pdf and xxx.htm) are the Topmost or the Root Level of the Hierarchic Deep Structure of the Project Noology. It is the top of so many levels of Hierarchy extending and expanding into the present text and then into the deep www. It is an Associative Hypertext Database. This is because the Table of Contents (Inhalts-Verzeichnis) is also a Hypertext Mechanism. By clicking on any entry in the Table of Contents, we can jump immediately to the corresponding subsection of the text. The reason why we have so many headlines is that we can jump to all these subsections by using the Hypertext Methods of MS Word and the MS Word Outline Folding Mechanism. When one has a very large text like this, the Outline Folding is an essential tool to manage this. In a flat text without the Deep Outline Structure this would be utterly impossible. And it also gives a very easy way to re-organize the text. In this manner, it is exactly a Mind Mapping tool. Only the term Mind Mapping is a very obscure and obfuscating way to describe a Hierarchical Nesting Associative Data Structure. There is one crucial difference between MS Word and most other programs that have "a kind of" outlining feature: In most other programs one must click on each outline to open up its sub-outlines. And this is an extremely tedious process when you have a deeply nested structure with some 5-10 nesting levels. I have no idea how any programmer worth his salt would come up with such an insanity. Fortunately, the good MS people who designed MS Word did at least once, something right. This outline feature was already present in MS Word 2.0 of 1992 or so. That one ran on the Win 95 OS which was based on DOS. And they just ported it to the Win NT, then Win 2000, and finally Win XP. But as I said it, it doesn't fit too well into Win 7, and none at all in Win 8 and Win 10. Too bad. So much for some Hellish Programming at the behest of...

Finally, a few Good Words about Microsoft

And then the MS Word .html conversion the Hypertext gives us immediately the .htm file Structure. I don't like the MS folks so much because of their Business Politics. But the MS Word is a stroke of Genius. It is the best Word Processor in the world. Nothing comes close to it. We just may look at the sorry Open Office or Libre Office. This is just a bunch of crap compared with MS Word. And I am strictly using MS Word 2000, all the later versions of MS Word are again a bunch of crap. In German there is a proverb which says: Verschlimm-Besserung, meaning something like Up-Down-Down-Grading. The good people at MS decided to "Upgrade" the good old MS Word 2000 Program to something much much worse.
[See also the Matrix Trilogy by the Wachowski's about "upgrading". I never thought that the Wachowski's were such good programmers, and that they knew the mind of Bill Gates inside and out. But since the Matrix is a computer program, the Wachowski's may have known a bit about this business.]

Unfortunately, the problem is that of a world simulation. We may take the "Kant und das Schnabeltier" as a quite good bad example that Umberto Eco had concocted. The good Umberto was (he is dead by now) a quite good philosopher and semiotician and more. But he was NOT SO GOOD AT COMPUTER SCIENCE. And at that I am better than the good Umberto. It is entirely impossible to do a simulation on a computer that goes bottom up from the Subatomic level, into Atoms, then Molecules and then Cells, and then Living Life. This is a problem of computational complexity. Because to simulate the Universe, one needs about $10^{xyz}$ more Simulation Bytes, than the whole Universe contains atoms. This is the pitfall of the Matrix movies, it is just technically impossible to "Second Source" or "Reverse Engkineer" the complexities of Mother Nature Herself. (The Matrix is the Mater, therefore the Mother Nature). So the Wachowski's just lost out, and only 12-year old kids will believe the nonsense that they had concocted.

The MS "Upgrading Principle"

And this is the MS "Upgrading Principle": With every new "upgraded" version the MS Office became more and much worse. And MS Word 2000 unfortunately doesn't run on Win 7 very well and it doesn't run at all on Win 8 or Win 10. Therefore for my own work, I have to use a separate computer with Win XP running on it, and it is connected via local network to my main working computer, which runs Win 7. So this is the trouble that one has to put up with, because the good MS people had decided that there is no such thing as "Backwards Compatibility" in the MS Business Plan. Of course they want to sell all their new (upgraded) software with the new OS's 8 and 10. And so they decided that the old Win XP software doesn't run (too well or at all) any more in Win 8 and Win 10. There is an age-old wisdom of programmer lore: If your program is running alright, YOU MUST NEVER UPGRADE. You will always invite some more trouble.

I have this saying that MS is so successful because it sells to the poor Users of the world some solutions for problems that the poor Users in all of the world wouldn't have, if they didn't use MS products at all. (Success means Suck-Cess-Pool or Suck-Seed which means Fellatio).

There is another good side to MS Word 2000. It doesn't need a registration with MS. So one can have as many copies of the program on as many computers as one likes. MS doesn't know anything at all about those many copies. And I can give a more detailed picture of how I work: I have two computers, one running XP and the other Win 7. Each computer has a separate monitor on its second video output. So I have 4 monitors around me. I have some real problems, not with the monitors themselves but with the 7000 Kelvin of their Luminescence Spectrum. 7000 Kelvin eats up the Melatonin in your brain, and one gets very heavy insomnia from staring all day into those monitors. This is what is called a "job hazard". One may even can become blind from that. But there are as many studies that state that this is not true. When the Guardian says something, we should better take this with a little Grain of Salt. (Cum Grano Salis).

My (un-) usual Work Environment: 2 Computers, 4 Monitors

And hopefully no-one will believe me, when I am saying this. I have two work computers: One is the HP EliteBook 2730p with a high-res screen of 22*17 cm, the other is quite a Behemoth of a Schlepptop. This thing is Really Heavy. The Asus X93SM-YZ125V 46,7 cm (18,4 Zoll) Notebook with a high-res screen of 30*23 cm. This is about the biggest and heaviest Schlepptop Computer that was ever produced. So because no-one will believe me, I have included some photos of my two computers and four monitors.

Big item. When looking at the voluminous package of the Asus K93SM-YZ085V, the first thing that springs to mind won't be a notebook. More likely than not, you might expect an HD receiver or a Blu-ray player. Nevertheless, the box contains a notebook with an 18.4 inch display - surely not a device for everyone.
"The air is thinner at the top" - this also applies to desktop replacement notebooks with a display size upwards of 18 inches. Our reviewed device, the Asus K93SM-YZ085V, certainly doesn't have a lot of competition in terms of size at the moment. ... With Asus in on the other hand, 18.4 inch devices apparently appear to belong to the standard repertoire. There definitely doesn't seem to be any other way of explaining the fact that the Taiwanese manufacturer has only recently thoroughly overhauled the K93 series. Asus has proclaimed the four new models which can perform the tasks of a PC as high performance all-round notebooks, which can be considered to be full-scale desktop replacement notebooks for this reason. The price range of the current K93 series spans a range between 849 and 1149 Euros, whereby the K93SM-YZ085V we have for review is the top model with an Intel Core i7-2670QM processor.

18 inch tinderbox: Asus K93SM

The case of the Asus K93SM-YZ085V above all else stands out due to its sheer size. With dimensions of 441 x 295 x 42-55 millimeters, it could also serve a purpose as a small table top. The weight of 4.1 kilograms predestines the device more for an evening workout than for mobile use, although it clearly wasn't developed for this purpose as a self-proclaimed desktop replacement. The distance between the office desk and the living room can still easily be traversed with this sizeable device.

**Why I produce such huge .htm files**

This is not because I am such a maniac about huge .htm files but because a full text search is quite tedious when you have split it up in about 20 small files. I have learned this the hard way in my dissertation (of 1999) first Noologie I project (of 1995). And I had a quite hard time to find all my quotes. I had to use the Google www-site search function to find anything at all. And quite often it occurred that the Google couldn't locate it even though I knew that it was right there in that .htm file. And it is very tedious when the Google gives you some results, but it doesn't tell you where exactly in the .htm file you have to go. As far as I know the .htm definition has no function that gives the entry point by line numbers, because there are no line numbers in a .htm file. Because every browser makes its own formatting. It could be done with the <br> tag. And perhaps I have just not been able to find the appropriate function. The command for the site: search goes like this. Unfortunately MS Word doesn't do a .html conversion for this format:

```
xyz site:http://www.noologie.de
```

**Some nuts and bolts about Using the MS Word Outline Mode**

The MS Word Outline Mode is an extremely powerful tool if applied in the right way. (This means that one needs to write a few Macros to make it work efficiently). There exist on the SW market some tools called Mind Mapping. This is exactly the same as the MS Word 2000 Outline Mode. But because no-one knows this (except me of course), the people, who are all the Rest of Us, have no idea how to use this feature. "Mind Mapping" is just a fancy term for "Structured Nested Hierarchical Thinking". And the former term totally obfuscates what the essence of this method is. I just call it by its "Real Name". Anyhow, a programmer who cannot do "Structured Hierarchical Thinking", is no programmer at all. (I also call this Objective Programming, which is somewhat related to but not identical with "Object Oriented Programming"). See a further discussion in a later chapter.

https://www.ayoa.com/how-to-mind-map/?gclid=EAIaIQobChMIxYihwaIVmM13Ch0CVQz6EAAYAIAAEgKxivD_BwE
https://miro.com/

MindApp is a mind mapping tool available in-browser or as a Windows desktop app. It features a drag and drop interface, keyboard shortcuts, children's options, and map and text formatting. You can save mind maps online in your free personal account or as images on your desktop, which can be used in other applications.

https://www.google.com/search?q=Mind+Mapping+tool&tbm=isch&source=hp&sa=X&ved=2ahUKEwjVoJvBrYDjAhXBJFAKHQjcBCcQsAR6BAgFEAE&biw=1447&bih=837

**NEVER USE the MS Word .doc or .docx format**

And I have some good advice to add on top of that: NEVER USE the .doc or .docx format. You must not do this, because when your computer goes "kaboom", or when there is an EMP surge, then your whole day's (or week's) work will be lost in Nirvana. Never trust the MS recovery procedures. It always happens in the right moment, when your term paper is due or even your dissertation, and the computer inevitably goes "kaboom". I have a nice joke about that: "Jesus Saves" further down. YOU MUST ALWAYS use the .rtf format. This is a sort of very primitive .xml, long before XML was invented. And it looks pretty strange when you put it into a programmer's editor. But it is just the same as XML, converted into a strange MS format. The \{ ... \} are the
markup signs just like the <xyz> and </xyz> in XML. This is what it looks like. One can immediately see that it is a deeply nested structure just like XML. The difference between XML and HTML is that HTML is a sort of Pidgin XML, since in HTML one doesn't always need to exactly balance the <xyz> with the corresponding </xyz>.

**Comparing .rtf with .xml**

```xml
<head>
<meta http-equiv=Content-Type content="text/html; charset=windows-1252">
<meta name=ProgId content=Word.Document>
<meta name=Generator content="Microsoft Word 9">
<meta name=Originator content="Microsoft Word 9">
<link rel=File-List href="/hagia-Dateien/filelist.xml">
<link rel=Edit-Time-Data href="/hagia-Dateien/editdata.mso">
<!--[if !mso]-->
<style>
  \* {behavior:url(#default#VML);}
  .shape {behavior:url(#default#VML);}
</style>
<!--[endif]-->
And so on...
```

This compares nicely with the .html format:

```html
<head>
<meta http-equiv=Content-Type content="text/html; charset=windows-1252">
</head>
```

**The Methods of using MS Word and HTML Hypertext**

We have four Interlocking and Complementing Methods of Access for the Hypertext:

1) The headlines in MS Word, which allow Hypertext Jumping.
2) The MS Word Outline Folding Mechanism allows us to display any levels 1 or 2 or 3 or 5 or more of the Headlines. But 5 Levels of Outline are enough for practical usage. This for the ergonomics of human memory.
3) MS Word automatically converts any URLs given in the text into real .htm Hypertext links according to the definition of the HTML specification.

4) MS Word converts a Word text into a www HTML page. So one can design a printable .pdf text and the same time a www .htm file, which comes in quite handy because now it is possible to use the Word text in parallel with the HTML method. So these are also complementary methods with large and deeply structured texts, and even more deeply structured Hypertexts. As I have said, the Project Noologie contains about 400 .htm files in ca. 50 megabytes. This is an immense amount of data. With normal paper-and typewriter methods this would be utterly impossible to manage. And even when using a conventional Text Processor (Like Open Office or Libre Office) without the Outline Folding and the Hypertext jumps this would also be quite difficult and tedious and therefore next to impossible to manage. An abbreviated version of the Hypertext Design Principles is given in these files:
http://www.noologie.de/hytxt-design.htm
http://www.noologie.de/hytxt-design.pdf

A Structure Similar to the Warburg Library
So we have all the essential tools for ordering and managing our Hierarchic Associative Hypertext Database. As I say it in the text, it is a Structure similar to the original Library Structure of Aby Warburg to which I owe so much.
[The following is similar to the original Structure of the Warburg Design. It is present in the catalogue of the Computerized Warburg Library.
https://wdl.warburg.sas.ac.uk/browse/subject
https://wdl.warburg.sas.ac.uk/
http://www.noologie.de/warburg-class.html
]
Aby Warburg constructed this Structure in the 1920's. All that without computers. At his time it was a quite super-human task. With the full power of present day Hypertext and Outline folding, this has become not only possible but also quite efficient and even easy. Of course one needs to be able to use the available computer tools to their maximum effectiveness. See also the more in-depth research about the Warburg Library.
http://www.noologie.de/aby.htm
http://www.noologie.de/aby.pdf

In a further section we will do some more in-depth exploring of the Design Principles of a very deeply structured Hierarchical Associative Hypertext Database.

On the Hypertext Database Design of Noology and Sophia
As I state it: There is a Dialectics of Form and Inhalt. I use the German word "Inhalt" instead of the Contents. The Inhalt is a technical term so that it will not get confused with the Contents. This is a kind of Heideggerian reasoning. I will explain this in a later chapter. For now, we call the Form also the Structure. This is "kind of" similar to the Phenomenology of Hegel, and sometimes I say something good about Hegel. There is also a dialectics when one looks at the work of Hegel, and I just don't believe in his Idealism, as I point it out again and again. I don't like WHAT he says, his Inhalt. For example that he admired Napoleon [I spell it this way with intention.] as an objectivation of the Geist, nor do I like his adulation of the Prussian state for the same reason. But I REALLY LIKE it HOW he says this. He is an extremely structured thinker. And so NOW this time is the right time to say SOMETHING GOOD about Hegel.

[I would just think that his way of thinking was a typical example of a "Schwabe". The Schwaben's may be not the brightest people on Planet Earth, but when they are doing something, they do with the utmost diligence and precision. I have found this out to my own dismay when I came up against the "Schwäbische Kehrwoche". There is a German expression for this: penibel. ]Undoubtedly this word is etymologically related to "penis" meaning to penetrate. Undoubtedly this is also related to "pain" (German: Pein), poena, penitentia, and something of the like in Latin.
]]
We may give as an example, a Schwarzwald Cuckoo Clock. Such was also the most prominent character trait of Hegel. See my jokes about the Schwaben's. Nietzsche was quite the opposite. I like very much WHAT Nietzsche says in his "sort of" philosophy. But he is totally unstructured, and therefore I call this "Pop Philosophy". Another interesting example is Heidegger. In his "Sein und Zeit" he is extremely structured, but in his late works he becomes more like a freewheeling thinker. And similarly with Wittgenstein. His
"Tractatus" is extremely structured and later in his life he turned just into the opposite. So we can even speak of a "Meta-Noia" of the philosophers.

Back to Hegel: because when thinking the "Geist" only and nothing else, this is also a "kind of" Thinking in Structure. The metaphysical meaning of "Geist" can be interpreted as an empty Structure, in the terms of the Shunyata and the Kenoma. An empty Structure is about as close as one can get, to think about Emptiness in a complicated way. So the metaphysical meaning is that even though the Emptiness is empty, but it can also have a Structure. This is the metaphor that I use here, like an Empty Database System. So we get quite another Dimension of Emptiness. And this necessitates that one starts from a completely different vantage point about thinking Emptiness. The common thinking about Emptiness is that it cannot have a Structure, that it may be just a Chaos or Tohu Wa Bohu as it says in the Bible. (Chaos in the Ancient Greek sense, the gaping, yawning). This may be correct in many cases. But there are some cases where there can be a Structure of Emptiness. And this is exactly what I am doing here.

I will repeat my favorite quote from Nagarjuna to make the point a little bit clearer because no-one in all the history of human thought was better able to formulate this than Nagarjuna:

The five Skandhas
Hier, O Sariputra, Form (rupa) ist Leere (shunyata) und gerade die Leere ist Form; Leere ist nicht verschieden von Form, und Form ist nicht verschieden von Leere; was auch immer Form ist, das ist Leere, was auch immer Leere ist, das ist Form, und dasselbe betrifft Gefühle (vedana), Sinneswahrnehmungen (samjna), Impulse (samskara), und Aufmerksamkeit (vijnana).

The Deep Structure of Form
The Structure is a specific kind of Form. One could call it the Deep Structure of Form. This enlarges the common idea of Form a little bit more. Usually one thinks of the Form as some kind outline, or a view from the outside, like the form of a coffee cup. What we do when we look at the Structure, we look at it from the inside. This is similar to a Mathematical Topology, because we have a lattice of points that are connected. A topology can be stretched and bent whichever way one may like, but the lattice of points cannot be changed, if one wants to do Topology. It is quite easy to see the Structure when we think of a Computer Database System. The Database System must be there before it can take up some data. And the Form of the Computer Database System may never change, because if that happens, all your precious Data will be gone, with the wind as the saying goes. So we need to do some heavy thinking about the Form, before we can fill it with the Data. In Computer Science, the Design of a Database System is a crucial affair. One must not commit any errors in that. And since I am a Computer Scientist, I am well versed in this art. Because it really is an art. One cannot let a machine do this. Because the deep Structure of the Inhalt determines the Logical Structure. Here is some www material on that.

www-Materials on Topology
https://en.wikipedia.org/wiki/Topology
http://mathworld.wolfram.com/Topology.html
https://www.math.colostate.edu/~renzo/teaching/Topology10/Notes.pdf
https://www.ntnu.edu/imf/research/topology
https://brilliant.org/wiki/topology/

www-Materials on Data Base Design
https://en.wikipedia.org/wiki/Database_design
https://en.wikipedia.org/wiki/Database_design#Logically_structuring_data
http://www.noologie.de/db/db-nrm.htm
http://www.noologie.de/db/db-nrm_c.htm

On Thinking in the Trees: A Multimedia Database Structure
On Thinking in the Trees. I have just used an odd mode of expression. This is not a joke at all. It means to think in hierarchical Tree Structures. As a computer scientist one must be quite good at Thinking in the Trees, meaning some hierarchical data structures like a Balanced Binary Tree. This is one of the Essences of Data Base design. Now the requirements for memory trees like the Aby Warburg Library are quite different from that what one does in Computer Science. The Computer Science Tree has to be balanced for Optimal Access
Time vs. Computer Resources. In the case of doing Thinking Trees, it is a little different. One needs to keep an overview which is limited by the display size of the Computer Screen. This has about 39 lines for my Computer. And the newer models of laptops are not as good any more, because of the craze of having a TV compatible display which just gives you some more columns, but not any more lines. And the display of the lines is what counts when you want to have the overview. So there is a Tree width, which should not exceed the number of lines that you can display. Doing a lot of scrolling up and down is not a good way to keep an overview. I give an example for the base of such an Associative Tree. This is the root level of the Video Archive of the Noologie project. Here you can see the main categories by which I subdivide the many different subjects of the first or the root level of the tree. You may notice that this tree is not balanced at all, because the design depends on the depth of the subtrees that you have under each root level heading. There is no patent recipe how to subdivide a knowledge Data Base. I am sure that Aby Warburg had a better subdivision. But here the requirements are different since I also include a lot of Entertainment Videos, and then a lot of Music Videos. And then some Natural Science and Technology Videos, which was not the purpose of the Warburg Library. So the scope in the present Database is so much wider.

http://www.noologie.de/aby.htm
http://www.noologie.de/aby.pdf

\video\doku-craft-handwerk-art
\video\doku-geo
\video\doku-hist
\video\doku-hist-antik
\video\doku-nat-astro
\video\doku-natwiss
\video\doku-paleo
\video\doku-rel
\video\doku-rel-anthro-ethno
\video\doku-rel-esoteric
\video\doku-sozwiss
\video\doku-tech
\video\film-comic
\video\film-hist
\video\film-scifi
\video\film-video
\video\komiker-deutsch
\video\music
\video\music-antik
\video\music-asien-indien
\video\music-esoteric
\video\music-ethno
\video\music-klass
\video\music-modern
\video\music-other
\video\music-rel
\video\philosophy
\video\wagner-film
\video\wagner-music
\video\wagner-other

Some more Computer Tree Branches

One of the earliest application of the balanced tree structure was the Mumps Database. It ran on something like a PDP 11. Which could roughly be compared to the Apollo Guidance Computer. Here is some Computer Gobble-De-Gook, it is all Greek to Us. Since this was a long gone era, of 1969, which has now in 2019, quite exactly a 50-year Jubilee. Quite interesting I would say to write something like that for the 50-year Jubilee. And it is June now. So I am probably the only one in the Whole of Germany who is still surviving with a living memory from that era.
Fractal Trees

The Branching of Trees is part of the Science of Fractals. There are some very nice pictures which of course give us so much more than 10,000 words. https://www.google.com/search?q=tree+branches+fractal&tbm=isch&source=hp&sa=X&ved=2ahUKEwikzeK3ku7iAhUHPYAKHU5ACRwQsAR6BAAgFEAE&biw=1380&bih=707
https://www.google.com/search?q=tree+branches+fractal&tbm=isch&source=hp&sa=X&ved=2ahUKEw12Ne4ku7iAhUMrxoKHVVaD8UQ4IY1igE&biw=1380&bih=707&dpr=1.13
https://www.rosettacode.org/wiki/Fractal_tree
A fractal is a pattern that repeats at different scales, and examples are all around us. Technically, we call shapes like this "Self-Similar" because a little piece of the shape looks similar to itself. This fern shows a rough self-similarity, being made of little copies of the same overall shape.

Fractal Trees

The plant kingdom is full of fractal patterns, and while we have only started calling these patterns 'fractal' since the 1970's, people have been observing these kinds of patterns for much longer. Perhaps the first description of a fractal pattern in nature came from the great artist and scientist Leonardo da Vinci in the 15th century. Leonardo wrote in his notebooks: "All the branches of a tree at every stage of its height when put together are equal in thickness to the trunk [below them]." This was a logical inference, and has come to be known as Leonardo's Rule for Branches. This came from the idea that branches act as pipes to move fluid, and the total cross-sectional area must be the same at different levels of the tree. This rule has actually been shown to be not entirely correct (Ref), but it is a good initial model. http://mwskirpan.com/FractalTree/

Make Your Own Fractal Tree!

Using the parameters below you can grow your own trees using fractals (well, approximately a fractal). The tree is generated by starting with a trunk of a certain length and then adding two branches that split off at a specified angle and length that is a ratio of the trunk. We continue adding these split branches for every branch that is drawn, up to a certain depth. If you were to repeat this process, as the limit approached infinity, you would have a set of numbers that were of a fractional dimension and had a self-repeating structure. Namely, a fractal set.

Below, I provide access to some parameters so that you can draw one of your own trees by: (1) controlling the number of layers you compute, (2) changing the length ratio of the branches to their parent branch, and (3) shifting the angles where the branches emerge. You can also set the width and length of the trunk, which will change the look of your whole tree (making it thicker and taller). You also have a color choice. The branches get filled in on a color spectrum where the starting color is your trunk's hue and the ending color is your leave's hue. Lastly, I made some little flower buds that you can add. The code is all done in JavaScript's D3 library, and can be found on my GitHub.

Suggestions on Parameters

Data on Fir Tree Branches in the woods


This is more of a kind of joke:
http://www.realchristmastrees.org/dnn/Education/Tree-Varieties/Noble-Fir

NCTA: The Professional Organization for The Real Christmas Tree Community

The National Christmas Tree Association (NCTA) is the national trade association representing the Christmas tree industry. NCTA represents more than 700 active member farms, 29 state and regional associations, and more than 4,000 affiliated businesses that grow and sell Christmas trees or provide related supplies and services. Members are located throughout North America, as well as in South America and Europe. It is estimated that those affiliated with the NCTA produce roughly three-quarters of the farm-raised Christmas trees in the United States. The need for a recognized, nationwide Real Christmas Tree community – with the desire to have its voice heard – has never been stronger. The NCTA represents the Real Christmas Tree community with one voice to protect and advocate on the industry's behalf.

Vision

NCTA's vision is that a farm-grown tree is a part of every Christmas celebration.

Mission
NCTA's mission is to protect and advocate for the farm-grown Christmas Tree industry.

Guiding Principles
The National Christmas Tree Association will:
Conduct its affairs with honesty and integrity
Advocate for all segments of the industry
Include members and state/regional associations in issue and policy development
Communicate fully and accurately with members, state associations and related industries on a continuous and timely basis.

The philosophical principle of the complementarity of Form and Inhalt
I also apply the philosophical principle of the complementarity of Form and Inhalt in all of my philosophical / or rather: Metaphysical thinking. Because the abstract concept of Form and Inhalt is metaphysical. In the whole of the Physical Universe there cannot exist such a thing like a Form without an Inhalt. I think that this is quite logical. Anyhow, in the Physical Universe there just doesn't exist anything like a Form without an Inhalt. Because a Form is a figment of the mind or better, of the imagination.

The Hypertext Structure of Noology as spelled out in .htm files
First we have the important bibliography files in the .htm files.
http://www.noologie.de/denk-bib.htm
http://www.noologie.de/bib.htm
http://www.noologie.de/bib_c.htm
This is the Noology Archive of Video Collections. These are about 4 Terabytes.
http://www.noologie.de/video.txt

AG-Dissertation
Design und Zeit: Kultur im Spannungsfeld von Entropie, Transmission, und Gestaltung
http://elpub.bib.uni-wuppertal.de/edocs/dokumente/fb05/diss1999/goppold/
http://www.noologie.de/desn.htm
On Extra-Verbal Cultural Traditions
http://www.noologie.de/desn23.htm

In the following is a more or less complete collection of all the project noologie files that are quoted in the present text. It is quite next to impossible to get them into any systematic order at all, since this covers about 30 years of work, and I had started working with personal computers quite at the very time when they were invented and available with some kind of reliability. This was around and about 1978 on some CP/M computers which were then featured in the Byte Magazine. There were so many Computer Assembling Garage Enterprises in that era. Until the IBM PC came around and that was the end of all those Garage Enterprises, except of course the Apple Computers, and some "sort of" computers like the Amiga and some other oddballs that were produced for those kids who didn't have the money to buy a real CP/M or IBM PC computer.

I have never used an Apple Computer, even though I had one sitting in my basement for some time. I then donated this to some charity organization to help some poor children in Upper Volta to get some basic Computer experience. I even got a letter of thanks from some remote place in Upper Volta. They said that the Apple Computer was nice, but because of the Electricity Conditions in Upper Volta, they could use it only one hour a day, so their improvement in Computer Experience was not so Revolutionary. In order that you may not be confused, this paragraph is a kind of joke that I like to pull off some time or another.

First come what I would call the Core Files. When I have the time I will write some descriptions for them. But unfortunately I don't have the time.

I have in the Noology Archive all the videos of the Dance Traditions that I reference here. The Dance Traditions are extra-verbal, and No Verbal Description can tell us about: That, Which is Un-Describable in words and Only in Dance. There is a lot of Verbal Material in the Derra-De-Moroda Dance Library at the University of Salzburg. I have read extensively in this Library, but reading so many books, doesn't help understand the dances. In this case, One Video can convey a Message, that 10.000 words can never convey. This is the power of Modern Multi Media Technology. All the videos referenced here, are also in the Noology Video Archive. These are under:
http://www.noologie.de/video.txt

Of Phonosemantics and Fuzzy Categorization
http://www.noologie.de/diadenk.htm#_Toc512641901
The Indo-Aryan-European and Vedic Indian Sanskrit language have a common Linguistic Operator for Negation. This is the "A" operator. And this is quite a trick of Linguistic Magick. Every time you put an "A-" in front of any word, you instantly turn it into the opposite or its Negation. Like A-Dvaita which means non-Dual or un-divided like in the Advaita Vedanta. Then one can come up with A-Laetheia, which means a "sort of" enlightenment, but this is not the original meaning. It just means the opposite of Laetheia, and Laetheia means "Endarkenment" or "Forget(ful)ness". The ancient myth states that when one dies, one has to go to the river Laethe, and drink some water from it. This causes immediate Amnesia. A-Mnesia just means the Negation of Mnesia or Mnaemae, which is the Memory or the Reminiscence. Aristoteles wrote a quite enlightening piece of work titled "Peri Mnaeme kai Ana-Mnaesis". This appears in the contemporary word Anamnesis which means Ana-mnaesis. Ana means Uphill, like the Ana-Basis of Xenophon.

But we can even do one better. Because there is not just Negation, but also Inversion. This is a term for a particular application of Meta-Morphology. One can make an Inversion of some Morphable Structure, and this is like one takes a glove and turns it inside out. So when it fits on your right hand in its original configuration, when you turn it inside out, it suddenly fits on your left hand. This is called in Mathematics a Topological operation. Topology means that all the points in a net stay connected. So when we take a different kind of glove, like a chain mail or net glove, and then we turn this inside out, we see clearly how the connectivity of the net chain stays right the same. This time not even doing anything particular like topological stretching, but only Inverting. There are of course fotos on the www, of such chain mail gloves.

And I call this a Topological Inversion Process of Meta-Morphology. This is probably something that one cannot think with the usual Negation Operator of the A- or Ant-Agonism. So it is quite outside of the thinking range of all of conventional thinking that humanity has practiced in the last 3000 years or so. It truly is a Terra Incognita of Thinking. We may also call this the Brave New Age of thinking Morphology.

My project of Noology is an advanced application of Computer Assisted Philosophy. I have written extensively about that in the Volume Noology III: Der Diamantweg der Noologie. (2011 bis 2017)

But I have also kept a secret Volume Noology III: Which is quite no-name, because there is only a provisional title for that work. I don't want to reveal all that to humanity, until the right time comes. If it comes at all, and if not, so maybe it. It is not listed in the root URL:
And so if you don't know its URL you will not be able to find it in the Google. Which suits me very well.

The secret title is: "Die Kultur-Mythen-Analyse und Die Ethno-Kybernetik: Das Fraktal-Denken der Noologie".

This title is of no use whatsoever, because not so many people know about Fractals, and even fewer know about thinking in Fractals. I believe I am the only one who does this. So this is just a bad marketing idea. Until I come up with a better title. Ethno-Kybernetik is also not so very well known. Except if one knows the works of Peter Sloterdijk in and out. He speaks in his works about Ethno-Techniken. Which is about the same as Ethno-Kybernetik. Since I don't want to plagiarize Sloterdijk all the time, I had just thought up this new word. Kultur-Mythen-Analyse is also not very well known, because today, people are not so much interested in Mythology, and when they are, they just think of some new sequels to the Star Wars endless sequel series, or of Star Trek, or of the Matrix, or of the Prometheus in the Alien sequels, or something in this genre. I have written more extensively in my article about the Mythology in the Ring of Wagner, and then some.

And in Appendix III: Die Denk-Technologie der Noologie
I write everything there is to write about the: WWW- Hypertext- Computer- Technik, of the Noology.
I just give some headlines of this, so you can get an idea what I am talking about:

Die Noologie- Navigations- Hilfen: Die Google-Erinnerung
Die WWW- und Google-Methoden der Noologie
Die Noologie als philosophische Wissensbasis
Die Hyper- Text- Aesthetik- Theorie der Noologie
Die Kunst der rekursiven Fuss-Note
A Hypothetical Sem{e/aio}phonic Rhizome Network of Aoide Vocabulary

I have already said some things about: The Hierarchical Method of Designing a Hypertext Structure. So I don't need to repeat this. But it just fits in here as well. But since you should not step in the same river more than once, I just refer to the above chapter about Right-Thinking. And the structure of the Warburg library.

The Hierarchical Hypertext Structure of Noologie and Sophia
The whole of The Project Noologie and Hagia Sophia has a volume of about 57 Megabytes in ca. 400 .htm files. This is an immense mass of data to juggle around. The .htm format is a Hypertext "of sorts" and therefore it is tremendously practical to do most of the Literature References by linking into the Deep Structure of the www. I have come to value the US wikipedia as very good source of references, they are usually well recharched and documented. So they should be regarded as trustworthy source. Since I know the material of so many wikipedia articles by my own researches into the deeper recesses of the Classical Literature of Antiquity, I can assure that the sources are correct. And the other good thing about the US wikipedia is that they usually give a good abstract of the larger text. And this is very handy when I cut and paste those abstracts in my own text. This saves a lot of work, and I am thankful to those nameless authors who have devoted so much of the time of their lives to do the research for the articles. What if all those thinkers of Antiquity and the Renaissance up to 1990 had had a personal computer and www access?

The good Thomas Aquinas, Athanasius Kircher, Marsilio Ficino, Picco della Mirandola, and the good Giordano Bruno, and the good Leibniz, and the good Goethe, and the good Oswald Spengler, and the good Aby Warburg, and the good Umberto Eco... They all would have just jumped out of their minds at the phenomenal perspective to get a computer for some Universal and Encyclopaedic Knowledge. And I have to qualify that this is just a very special Encyclopaedic knowledge about some very special subjects which are all in the collection of the Warburg Library. But nowadays you can find some good selections of the Warburg Library on the www. If you know where and how to look for it, and use the Google in some clever ways. And so I am able in just around 1/10 to 1/20 the fraction of the precious lifetime to do a research on some things that the poor book-reading students of philosophy would need countless hours to pore through library catalogs, then go to the library, and schlep the books home, do some readings, do some annotations, do some excerpting and quoting... And so on. I just have so much pity for those poor students who do not know how to use the
Computer and the www and the Google to go fishing for precious information, with a dragnet. And I would be curious if those students also go to the Bayerische Staatsbibliothek, and then scan in their books at the scanner, and take the scan files home and put them through the OCR, so you need to make only some corrections where the OCR couldn't do it all by itself. And this surely saves a lot of time. On top of this is the enhanced Google search. And then one needs to get the retrieved material into some Structure. And this Structure is the catalogue of the Warburg Library. As I believe, this is one of the best catalogs in the whole of Library Science. It is not ordered according to some stupid Alphabetical or Numerical Principle, but according to its Deep Inhalt (the deep Content). And to determine what the Inhalt is, one needs to read the book, at least a little bit. There is also the ISKO organization International Society for Knowledge Organization. I have been at some conferences of that organization around 1997-1999, and I had presented some of my ideas. I had not yet been able to get the Structure of the Warburg Library at that time. And so I could not give the fitting example for my theory of Hierarchical Associative Hypertext.

The Dewey Decimal Classification (DDC), colloquially the Dewey Decimal System, is a proprietary library classification system first published in the United States by Melvil Dewey in 1876. [1] Originally described in a four-page pamphlet, it has been expanded to multiple volumes and revised through 23 major editions, the latest printed in 2011. It is also available in an abridged version suitable for smaller libraries. OCLC, a non-profit cooperative that serves libraries, currently maintains the system and licenses online access to WebDewey, a continuously updated version for catalogers.

The Decimal Classification introduced the concepts of relative location and relative index which allow new books to be added to a library in their appropriate location based on subject. Libraries previously had given books permanent shelf locations that were related to the order of acquisition rather than topic. The classification's notation makes use of three-digit Arabic numerals for main classes, with fractional decimals allowing expansion for further detail. Using Arabic numerals for symbols, it is flexible to the degree that numbers can be expanded in linear fashion to cover special aspects of general subjects. [1] A library assigns a classification number that unambiguously locates a particular volume in a position relative to other books in the library, on the basis of its subject. The number makes it possible to find any book and to return it to its proper place on the library shelves. [1] The classification system is used in 200,000 libraries in at least 135 countries. [1-4]  

The Structure is just another Deeper Version of the Form

And the Structure is just another deeper version of Form. It is Form in a deeply and highly structured manner. And this is exactly what the Warburg Library is all about. Because without a deeply nested hierarchical structure it is quite impossible to think such a thing like the Warburg Library is. And of course this is all about the Project Hagia Sophia. Its structure is a deeply nested Hierarchical Hypertext. And in would be pretty impossible to do this without the right Computer Tools. I have in part developed Hypertext Structures myself in the early 1980's. That was quite some time before the idea of Hypertext was even developed.

About the good Hl. St. Augustinus

I use the German word Inhalt as a technical term, to distinguish it from the (in-) contents (or In-Continentia of "Life of Brian" fame). This is my favorite application of thinking Form and not Inhalt. When I read the writings of the Hl. St. Augustinus I am always con-vulsing with re-vulsion. Really. Augustinus is one of those characters whom I just love to hate. But I only hate WHAT he thinks, the Inhalt. And I just love the Form of his Thinking. I will just remember the verses of Nietzsche: Ihr Einsamen von heute, ihr Ausscheidenden: Wahrlich, ich rathe euch: geht fort von mir und wehrt euch gegen Zarathustra! Und besser noch: schämt euch seiner! Vielleicht betrog er euch. Der Mensch der Erkenntnis muss nicht nur seine Feinde lieben, sondern auch seine Freunde hassen können.

And this is also the way I go about the good Hl. St. Augustinus. Since I am doing Complementarity Thinking, I have noticed something: Even when I hate the Inhalt of the excessive ruminations of St. Augustinus, I just love the Structure of his Thought-System. Because he had been a very good Lawyer, and Rhetor, and Orator and he was a Manichaean on top of that. Now to be a Manichaean is the best thing to do when you are in the Law Business. To think the Manichaean way means to be "dyed in the wool" with Dualistic Thinking. Manichaenism was probably the highest logical suprematization of Dualistic thinking that ever existed. (See also: Peter Sloterdijk "Gottes Eifer" on more information about Suprematization). Manichaenism is derived from the ancient Persian Zoroastrism of Ahura Mazda and Ahriman as the Dualistic Spirits who are in an ever-lasting battle about who controls the world, and the minds of the Humans. I also refer to the theory of Rudolf Steiner who had done some enlargement of this theory.
A few side thoughts about the Hl. St. Augustinus and Rousseau

I just give a little side thought about the Hl. St. Augustinus. And I had pretty much the same revulsion when I read Rousseau. The thinking style of them both was quite of the same kind of excessive rumination, like the Hl. St. Augustinus did. But I just didn't get the idea why the good Rousseau ruminated so excessively about masturbation. Rousseau was about the same obsessed with masturbation as the good Marquis de Sade was with his sexual tortures. At least the stories of the good Marquis de Sade made for some interesting reading for an Anthropologist. One can always learn something more about human sexual deviation, even if the stories the good Marquis de Sade were complete fiction since he was in the Bastille at the time when he wrote those stories. I believe that there must have been a reading Salon in the assembly room for all the prisoners in the Bastille, and when the Marquis de Sade did his readings, the room was always packed full. Since the prisoners had very little other entertainment. I could do quite a bit of psycho-analysis about this. But what struck me with so much Shock and Awe (remember the 2003 Irak war of G.W. Bush)... Was the fact that even such enlightened thinkers like Jacques Derrida had so much admiration and adoration for Rousseau, and I even think that the French Intelligenzia believes that the poor Rousseau was some sort of National Philosophical Hero. And Rousseau was really the poorest, and basest, and most erroneous thinker of the whole of the French Intelligenzia, which was more of a Demenzia at those times, just like the good Descartes a few years before Rousseau. This would be about the same achievement as if the Germans would take the Dr. Josef Goebbels as their National Philosophical Hero. To quote the good Asterix: Ils sont fous les Romains. The retort is: Ils sont fous les Francais Intelligenzia or better the Demenzia.

Abstract: Once I went climbing somewhere. The equipment was heavy, the rope cumbersome, the slope steep. On the side of that upward struggle, a foot away, a boulder with a flat top, pretty crystalline colors. It invited me to put my hand on it, for a welcome rest. As I engaged the motion, some engine of systematic suspicion inside my brain addled by the effort, had an automatic, and, it turned out, life saving, second look. A magnificent viper was coiled on the colored rock, its pretty camouflage perfectly adapted. It puffed, ready to strike when I jerked back. As we will see, human vipers, are also perfectly adapted, perfectly camouflaged, and that's what makes them so pretty.

It's not because an ideology sounds good, and looks pretty, that it is. Baits look good, and that's why fishes bite them (experienced fishes do not bite baits, they know the difference). So beware of all too seductive ideologies... All the more as plutocratic propaganda finds alluring all and any ideology which serves it, and has the means to finance it, beyond your wildest dreams. In France, in the 1950s, more than 50 major opinion makers were on the CIA roll. Surely, would the naive say, not icons such as Sartre and De Beauvoir? Well, for those, the situation was even worse.

Yes, I know, top philosophers have always been iconoclastic. Top philosophers break icons. Nothing that is viewed favorably in this celebrity worshipping, thus superficiality craving, age of the greedy critters.

... Existentialism as a cancer of the spirit:
An example of a ruinous ideology has been so-called “Existentialism”, a nebulous “philosophy” preoccupied with the self, which played a crucial role in deploying, and justifying Lenin-Stalinism, Nazism, “Maoism”, the “American Century”, also known as “neo-liberalism”...
Existentialism gave a justification, if not inception to the “Et Moi, Et Moi, Et Moi” (me, me, me) philosophy, which brought us, in turn, both the cult of wealth supreme (“neo-liberalism”, “inequality”) and “communitarianism” (my community is all I need to enjoy and know, by birthright; in particular Islamism, but it could be Buddhism in Burma… or sexism).

“Neo-liberalism” is neither: neither “liberal”, nor new in any sense.
Appendix XI: The Display Tree for an Associative Hierarchy

As I said in the main text, the display of the lines is what counts when you want to have the overview. So there is a Tree width, which should not exceed the number of lines that you can display. Doing a lot of scrolling up and down is not a good way to keep an overview. I give an example for the base of such an Associative Tree. This is the root level of the video archive of the Noologie project. Here you can see the main categories by which I subdivide the many different subjects of the first or the root level of the tree. You may notice that this tree is not balanced at all, because the design depends on the depth of the subtrees that you have under each root level heading. There is no patent recipe how to subdivide a knowledge Data Base. I am sure that Aby Warburg had a better subdivision. But here the requirements are different since I also include a lot of Entertainment Videos, and then a lot of Music Videos. And then some Natural Science and Technology videos, which was not the purpose of the Warburg Library. So the scope in the present Database is so much wider.

`doku-craft-handwerk-art`  
`doku-geo`  
`doku-hist`  
`doku-hist-antik`  
`doku-nat-astro`  
`doku-natwiss`  
`doku-paleo`  
`doku-rel`  
`doku-rel-anthro-ethno`  
`doku-rel-esoteric`  
`doku-sozswiss`  
`doku-tech`  
`film-comic`  
`film-hist`  
`film-scifi`  
`film-video`  
`komiker-deutsch`  
`music`  
`music-antik`  
`music-asien-indien`  
`music-esoteric`  
`music-ethno`  
`music-klass`  
`music-modern`  
`music-other`  
`music-rel`  
`philosophy`  
`wagner-film`  
`wagner-music`  
`wagner-other`

These are the next levels of the tree. Here you can see the volume of the material that is stored under each tree root level.
Appendix XII: The Dewey Decimal Classification


The OCLC has maintained the classification since 1988, and also publishes new editions of the system. The editorial staff responsible for updates is based partly at the Library of Congress and partly at OCLC. Their work is reviewed by the Decimal Classification Editorial Policy Committee, a ten-member international board which meets twice each year. The four-volume unabridged edition was published approximately every six years, with the last edition (DDC 23) published in mid-2011. In 2017 the editorial staff announced that the English edition of DDC will no longer be printed, in favor of using the frequently updated WebDewey. An experimental version of Dewey in RDF was previously available at dewey.info beginning in 2009, but has not been available since 2015.

Design

The Dewey Decimal Classification organizes library materials by discipline or field of study. Main divisions include philosophy, social sciences, science, technology, and history. The scheme comprises ten classes, each divided into ten divisions, each having ten sections. The system's notation uses Arabic numbers, with three whole numbers making up the main classes and sub-classes and decimals designating further divisions. The classification structure is hierarchical and the notation follows the same hierarchy. Libraries not needing the full level of detail of the classification can trim right-most decimal digits from the class number to obtain more general classifications. For example:

500 Natural sciences and mathematics
510 Mathematics
The classification was originally enumerative, meaning that it listed all of the classes explicitly in the schedules. Over time it added some aspects of a faceted classification scheme, allowing classifiers to construct a number by combining a class number for a topic with an entry from a separate table. Tables cover commonly-used elements such as geographical and temporal aspects, language, and bibliographic forms. For example, a class number could be constructed using 330 for economics + .9 for geographic treatment + .04 for Europe to create the class 330.94 European economy. Or one could combine the class 973 (for the United States) + .05 (for periodical publications on the topic) to arrive at the number 973.05 for periodicals concerning the United States generally. The classification also makes use of mnemonics in some areas, such that the number 5 represents the country Italy in classification numbers like 945 (history of Italy), 450 (Italian language), 195 (Italian philosophy). The combination of faceting and mnemonics makes the classification synthetic in nature, with meaning built into parts of the classification number. The Dewey Decimal Classification has a number for all subjects, including fiction, although many libraries maintain a separate fiction section shelved by alphabetical order of the author's surname. Each assigned number consists of two parts: a class number (from the Dewey system) and a book number, which "prevents confusion of different books on the same subject". A common form of the book number is called a Cutter number, which represents the author and distinguishes the book from other books on the same topic.

**Classes**

*Main article: List of Dewey Decimal classes*

(From DDC 23[44])

**000** – Computer science, information & general works
**100** – Philosophy & psychology
**200** – Religion
**300** – Social sciences
**400** – Language
**500** – Pure Science
**600** – Technology
**700** – Arts & recreation
**800** – Literature
**900** – History & geography

**Tables**

(From DDC 23[44])

T1 Standard Subdivisions
T2 Geographic Areas, Historical Periods, Biography
T3 Subdivisions for the Arts, for Individual Literatures, for Specific Literary Forms
T3A Subdivisions for Works by or about Individual Authors
T3B Subdivisions for Works by or about More than One Author
T3C Notation to Be Added Where Instructed in Table 3B, 700.4, 791.4, 808–809
T4 Subdivisions of Individual Languages and Language Families
T5 Ethnic and National Groups
T6 Languages

**Relative Index**

The Relative Index (or, as Dewey spelled it, "Relativ Index") is an alphabetical index to the classification, for use both by classifiers but also by library users when seeking books by topic. The index was "relative" because the index entries pointed to the class numbers, not to the page numbers of the printed classification schedule. In this way, the Dewey Decimal Classification itself had the same relative positioning as the library shelf and could be used either as an entry point to the classification, by catalogers, or as an index to the Dewey-classed library itself. [45]

**Appendix XIII: Some Excerpts from Design und Zeit**

**Die Diamant-Metapher der Noologie**

Hier bringe ich einige Zitate aus:

http://www.noologie.de/diadenk.htm


Appendix XIV: Notes about Eco's The Name of the Rose

I discuss this quite well-known book with some hopefully novel tracks of thought. I have read almost all of Umberto Eco's books, mostly his semiotic works. I found "Name of the Rose" quite good. His "Foucault Pendulum" is almost as good. But the other novels, like Baudolino and later were quite boring for me. So I like Eco as a scientist and historian as well as a novelist. He ranks for me as quite on a par with Giordano Bruno. With the exception that Umberto had a lot of humor, and Giordano Bruno had none whatsoever of that. I also like a quite good genius with humor better than a much greater genius without humor. Like Isaak Newton. He was probably the most sourly character in the whole history of human geniusness. Next to Platon and Aristoteles, I would say. So now I will repeat some text from the introduction of "Hagia Sophia" to get us back on track with that story:

The Tri-Polarity is not Oppositional but Complementary

The Tri-Polarity is not oppositional but complementary. The logics behind this is that there cannot be an opposition in a Tri-Polarity at all. So there are some deep mysteries behind this mode of imaging / imagining which was also expounded by the complete exegesis of Tri-Polarity by Giordano Bruno. I have never found any literature that even mentioned this besides all those other great works of Giordano Bruno. Now there is a logical progression by odd numbers. When you do this, you get to the Penta-gramma(ton). And then the Hepta-gramma(ton). Why is this so? It is one of the Laws of Nature. The Penta-gramma(ton) is present in many flowering plants. And it is also called the Law of the Golden Section.

http://www.maths.surrey.ac.uk/hosted-sites/R.Knott/Fibonacci/phi2DGeomTrig.html
https://www.mathsisfun.com/geometry/pentagram.html
A pentagram (sometimes known as a pentalpha, pentangle or star pentagon) is the shape of a five-pointed star.

Pentagrams were used symbolically in ancient Greece and Babylonia, and are used today as a symbol of faith by many Wiccans, akin to the use of the cross by Christians and the Star of David by the Jews. The pentagram has magical associations. Many people who practice Neopagan faiths wear jewelry incorporating the symbol. Christians once commonly used the pentagram to represent the five wounds of Jesus.[1][2] The pentagram is also used as a symbol by other belief systems, and is associated with Freemasonry.

The word pentagram comes from the Greek word πεντάγραμµον (pentagrammon),[3] from πέντε (pente), "five" + γραµµή (grammē), "line".[4] The word "pentacle" is sometimes used synonymously with "pentagram".[5] The word pentalpha is a learned modern (17th-century) revival of a post-classical Greek name of the shape.[6]

**Early history**

In early (Ur I) monumental Sumerian script, or cuneiform, a pentagram glyph served as a logogram for the word *ub*, meaning "corner, angle, nook; a small room, cavity, hole; pitfall" (this later gave rise to the cuneiform sign UB , composed of five wedges, further reduced to four in Assyrian cuneiform). [citation needed]

The word Pentemychos (πεντέµυχος lit. "five corners" or "five recesses")[7] was the title of the cosmogony of Pherecydes of Syros.[8] Here, the "five corners" are where the seeds of Chronos are placed within the Earth in order for the cosmos to appear.[9][clarification needed]

**Tres and Tria**

And the Tri-Polarity or the Tri-Gonikos (gonos) is almost completely absent in living Nature except for some sea snails whose shells are constructed in Tri-Gonos(ikos) manner. https://en.wikipedia.org/wiki/Syntomodrillia_triangulos

The Drilliidae are a taxonomic family of small predatory sea snails with high-spired shells. They are classified as marine gastropod mollusks in the superfamily Conoidea.[2]

This family has no subfamilies.

http://www.gastropods.com/5/Shell_77165.shtml

But the Tri-Polarity or the Tri-Gonikos is superbly present in the Crystal Structure (or crystal lattice) of the Diamond. And this has its own mythology. There is a quite misleading mis-nomer of the Tetra-Eder, which means the 4-Cornered One. But it is actually the most simple of the Platonic Solids, and it is constructed out of Tri-Angles, which means Tri-Angulos or Tri-Gonikos. So the logical progression of Tri- in 2-D goes into Tetra- in 3-D.

I have written something about this in my work Noologie III: "Der Diamantweg der Noologie: Eine Ody-See-Reise in die Grenz- und Rand-Bereiche des Denkens". We have heard a lot about Odysseus, and we will hear much more about him.

http://www.noologie.de/diamant.htm

http://www.noologie.de/diamant.htm#_Toc348694834

http://www.noologie.de/diamant.htm#_Toc348694836

http://www.noologie.de/diamant.htm#_Toc348694848

http://www.noologie.de/diamant.htm#_Toc348694851

http://www.noologie.de/cunni.htm

http://www.noologie.de/cunni06.htm

http://www.noologie.de/cunni06.htm#Heading27

**Tres and Tria** are some very old words in almost all the Indo-European languages. Tri-Murti is the Indian name for the Most Holy Triad of the Gods: Brahma, Vishnu and Shiva. The English words are: trey / triad / trine / trinity / trio / troika

Therefore the Tri-Polarity is also the way out of the Dualistic thinking and especially the dualistic theology of the Abrahamic Religions. The Dualism originated [more or less] with Zoroaster, then was amplified out of all proportions by the Manicheans, and the Hl. St. Augustinus had been a staunch Manichaean, and had remained that ever since, even after his (outwardly) conversion to Christianity. It was mainly because of the Hl. St. Augustinus that Western Roman Christianity became so dualistic. The Orthodox Christianity was much less radical in this respect because they still had the HAGIA SOPHIA, WHICH WAS NOT AT ALL THE VIRGIN MARY. This is also why I name my project the HAGIA SOPHIA. The Gnostics were also very dualistic, as were their Kathar successors in the middle ages. Kat-har-sis is a Greek word, and therefore I write
it in the Greek spelling, not the Latinized one. We should stick as close as we can to the originals, and not the Roman Latin fakes.

**Umberto Eco and a Novel about Rose Flowers...**

Why would one call a mystery novel by the Name of the Rose? Because of the Rosicrucians??, or the Rosalyn Chapel???, or because of the Secret Name of the Vulva????? At least one artist had gotten the hint: Vousba, is Vouwa, and then you quite get it... [I have put the 5 question marks there for a very good reason.]
http://vouba.com/geometry-of-rose

Now we also get a mathematical hint: Because there is a rare case of transforming the penta- into hepta-symmetry in mathematical functions. And a Rose flower can do this quite well.
https://www.vectorstock.com/royalty-free-vectors/geometric-roses-vectors
http://www.flowersociety.org/hidden-symmetry

The writer of this work is Keith Critchlow. He is also well known for other, less mystical works about Sacred Geometry.

https://www.google.com/search?q=geometry+in+flowers&sa=X&ved=2ahUKEwiSosielNvjAhVNIIAKHR07DJoQ1QoAHoECAkQAQ&biw=1208&bih=696

There is a specialty about Rose flowers since they have a penta-gramma symmetry. There are two kinds of symmetry: Axial and Radial. Axial meaning that you have a multiple of 2, 4, 6, 8, and so on. They are all dividable by 2. Radial symmetry doesn't bother with such mathematical finesses. It cannot be divided by 2. So it is 3, 5, 7, and so on. And the Rose flowers can do this kind of symmetry. The botanic scientists have found a quite arcane name for this kind of symmetry. They call it the Actinomorphic flower. So what makes roses so special? When we look at a picture of a rose it is quite visually comprehensible: The arrangement of the rose petals is an incredibly complicated superposition or mathematically a recursion with variant parameters of the pentagrammatical Ur-Pattern. It is very difficult to describe this in a mathematical function, but it looks very easy when we see the flower.

https://en.wikipedia.org/wiki/Floral_symmetry
https://www.maximimumyield.com/definition/840/actinomorphic-flower
https://www.google.com/search?q=rose+flower+actinomorphic&tbm=isch&source=univ&sa=X&ved=2ahUKEwiJ5chIm9vjAhVSKFACKHfgKBMkQsAR6BAgCEAE&biw=1208&bih=696
https://www.google.com/search?q=rose+flower+geomet&tbm=isch&source=hp&sa=X&ved=2ahUKEwiyhOa ymtvjAhWGPFAKHiwC5wQsAR6BAgJEAE&biw=1208&bih=696
https://en.wikipedia.org/wiki/Patterns_in_nature

... Pliny the Elder (23–79 AD) noted their patterned circular arrangement.[3] Centuries later, Leonardo da Vinci (1452–1519) noted the spiral arrangement of leaf patterns, that tree trunks gain successive rings as they age, and proposed a rule purportedly satisfied by the cross-sectional areas of tree-branches.[6] Johannes Kepler (1571–1630) pointed out the presence of the Fibonacci sequence in nature, using it to explain the pentagonal form of some flowers.[3] In 1754, Charles Bonnet observed that the spiral phyllotaxis of plants were frequently expressed in both clockwise and counter-clockwise golden ratio series.[3] Mathematical observations of phyllotaxis followed with Karl Friedrich Schimper and his friend Alexander Braun’s 1830 and 1830 work, respectively; Auguste Bravais and his brother Louis connected phyllotaxis ratios to the Fibonacci sequence in 1837, also noting its appearance in pinecones and pineapples.[4] In his 1854 book, German psychologist Adolf Zeising explored the golden ratio expressed in the arrangement of plant parts, the skeletons of animals and the branching patterns of their veins and nerves, as well as in crystals.[3][6][7] A. H. Church studied the patterns of phyllotaxis in his 1904 book. In 1917, D’Arcy Thompson published *On Growth and Form*; his description of phyllotaxis and the Fibonacci sequence, the mathematical relationships in the spiral growth patterns of plants showed that simple equations could describe the spiral growth patterns of animal horns and mollusc shells.[9]

**And with two Ketzer Monks in the Monastery**

The German work Ketzer derives from the Cathars, and Umberto Eco did a nice little novel around this theme, with the two Ketzer monks in the monastery.

https://en.wikipedia.org/wiki/The_Name_of_the_Rose
http://www.cathar.info/cathar_legacy.htm
http://www.cathar.info/cathar_origins.htm
https://en.wikipedia.org/wiki/Catharism
http://www.badnewsaboutchristianity.com/gbe_cathars.htm
Maria Magdalena and the Son of Jesus

The last contribution is a quite mythical / mystical account by which Maria Magdalena was a "sort of" wife of Jesus Christos [or Chrestos, from Chresma, or Charisma, as I sometimes call him by his pseudonym], and she was pregnant with a child of Jesus, when he was crucified. This story was at some time told by the authors Baigent and Leigh, and later by Dan Brown. And this was probably a plagiarism of some old Kathar stories, and of the Ste. Maries de la Mer, the holiest of the pilgrimage sites of the Gypsies.

[It is to be noted that there are TWO Ste. Maries, one of course being Maria the Mother of Christ, and the other... well er, I don't know this. But Baigent and Leigh, and Dan Brown know it all: This must have been Maria Magdalena.]

And of course, we could have guessed it by now, the Knights Templar are also knee-deep involved in this "history"story. I have written some more about this story, which is quite a nice one, if one wants to believe this. Because as the legend goes, the Child of Maria Magdalena and Jesus Christos, founded a lineage that some few 100 years later, led to the Merovingian Dynasty of France. Also the good Patrice Ayme' had concocted his own version of this story, although not as far-out as the Dan Brown version of it. See also the Matrix Trilogy, Part II, where we meet the Merovingian in some other disguise. And his wife is Persephonae (Per-Se-phonae, Proserpina, and Mother Kali), all in all this is shock-full of mythology of the finest kind. I have no idea how the Wachowski brothers (later sisters) could have ever thought up such a tall story. At least it is more intelligent than the really dumb story of a super duper computer program that likes to play "the world". Even Umberto Eco knew these jokes long before the Wachowski's came up with the idea.

A few more Names in the Name of the Rose

We can get some hints from the geometry of the petals of the rose, and transform it into the names of the characters in the novel. All the names in the novel by Umberto Eco are of course a little bit ana-grammed from some other well known characters. William of Baskerville is of course Sherlock Holmes, as in the Hound of Baskerville. Adso(n) of Melk is Dr. Watson, but as a young apprentice. Jorge of Burgos is named after the famous library of Burgos in Spain. Actually it was the library of Toledo, one of the main centers of scholarship in Medieval Castilia. Castilia means Castle land. The name of the Rose leads us to Miraflores and the Rosicrucians and Rosalyn Chapel in Scotland. Of course Dan Brown had concocted his own story from all those bits and pieces of Mythology and Mystery. The name of Burgos probably derives from the { Burgen / Burg / Berg / Bergen / Ver-Bergen / Ent-Bergen / Burrow} since there were quite a few Teutonic Crusaders during the many hundred years of the Re-Conquista which lasted until 1492, when the Alhambra and Granada fell back to the Christians. So we have the Rolland Mythos also wrapped into the story. Which was the story when the Moors were decisively defeated at Tours by the Frankish army. And now-a-days no-one knows who these Franks really were. Were they the original French or the orginal Teutonic? The his-storians can never get their minds together about this question. And the good Patrice Ayme' also has his special idea about that.

Roland

Roland (Frankish: "Hróðilând", Latin: "Hruodlandus", "Rothonlandus"; Italian: "Orlando", "Rolando"; died 15 August 778) was a Frankish military leader under Charlemagne who became one of the principal figures in the literary cycle known as the Matter of France. The historical Roland was military governor of the Breton March, responsible for defending Francia's frontier against the Bretons. His only historical attestation is in Einhard's Vita Karoli Magni, which notes he was part of the Frankish rearguard killed by rebellious Basques in Iberia at the Battle of Roncevaux Pass. The story of Roland's death at Roncevaux Pass was embellished in later medieval and Renaissance literature. The first and most famous of these epic treatments was the Old French Chanson de Roland of the 11th century.
Two masterpieces of Italian Renaissance poetry, the *Orlando Innamorato* and *Orlando Furioso* (by Matteo Maria Boiardo and Ludovico Ariosto), are further detached from history than the earlier *Chansons*, similarly to the later *Morgante* by Luigi Pulci. Roland is poetically associated with his sword *Durendal*, his horse *Veillantif*, and his *oliphant* horn.

Roland was evidently the first official appointed to direct Frankish policy in Breton affairs, as local Franks under the Merovingian dynasty had not previously pursued any specific relationship with the Bretons. Their frontier castle districts such as *Vitré, Ille-et-Vilaine*, south of *Mont Saint-Michel*, are now divided between Normandy and Brittany. The distinctive culture of this region preserves the present-day *Gallo language* and legends of local heroes such as Roland. Roland's successor in *Brittania Nova* was *Guy of Nantes*, who like Roland, was unable to exert Frankish expansion over *Brittany* and merely sustained a Breton presence in the Carolingian Empire.

According to legend, Roland was laid to rest in the basilica at Blaye, near Bordeaux, on the site of the citadel.


The *Battle of Tours* (10 October 732) was also called the *Battle of Poitiers* and, by Arab sources, the *Battle of the Highway of the Martyrs* (Arabic: *معركة بلاط الشهداء*, romanized: *Ma'arakat Balāṭ ash-Shuhadā*) – an important victory of the Frankish and Burgundian forces under Charles Martel over the raiding parties of the *Umayyad Caliphate* led by *Abdul Rahman Al Ghafiqi*, Governor-General of al-Andalus. It was fought in an area between the cities of Poitiers and Tours, in the *Aquitaine* of west-central France, near the village of *Moussais-la-Bataille*, about 20 kilometres (12 mi) northeast of Poitiers. The location of the battle was close to the border between the Frankish realm and the then-independent Duchy of Aquitaine under *Odo the Great*.

The Franks were victorious. Abdul Rahman Al Ghafiqi was killed, and Charles subsequently extended his authority in the south. Details of the battle, including its exact location and the number of combatants, cannot be determined from accounts that have survived. Notably, the Frankish troops won the battle without cavalry. *The battle helped lay the foundations of the Carolingian Empire and Frankish domination of Europe for the next century. Most historians agree that "the establishment of Frankish power in western Europe shaped that continent's destiny and the Battle of Tours confirmed that power."[11]*


https://en.wikipedia.org/wiki/History_of_Toledo,_Spain#Medieval_Toledo_after_the_Reconquest

More on the Name of the Rose

https://en.wikipedia.org/wiki/The_Name_of_the_Rose

In 1327, *Franciscan* friar *William of Baskerville* and Adso of Melk, a *Benedictine novice* travelling under his protection, arrive at a Benedictine monastery in *Northern Italy* to attend a *theological disputation*. This abbey is being used as neutral ground in a dispute between *Pope John XXII*, and the Friars Minor, who are suspected of heresy.

The monastery is disturbed by the death of Adelmo of Otranto, an illuminator revered for his illustrations. Adelmo was skilled at comical artwork, especially concerning religious matters. William is tasked by the monastery's *abbot*, Abo of Fossanova, to investigate the death, and he has a debate with one of the oldest monks in the abbey, Jorge of Burgos, about the theological meaning of laughter, which Jorge despises.

The next day, a scholar of Aristotle and translator of Greek and Arabic, Venantius of Salvemec, is found dead in a vat of pig's blood. Previously, William and Adso had been prohibited from entering the labyrinthine library by the librarian Malachi of Hildesheim, so they penetrate the labyrinth, discovering that there must be a hidden room, entitled the *finis Africæ*. Benno of Uppsala, a rhetoric scholar, reveals to William that Malachi, and his assistant Berengar of Arundel, had a homosexual relationship, until Berengar seduced Adelmo, who committed suicide out of conflicting religious shame. The only other monks who knew about the indiscretions were Jorge and Venantius.

By the day after, Berengar has gone missing, which puts pressure onto William. William learns of how Salvatore of Montferrat, and Remigio of Varagine, two cellarer monks, had a history with the *Dulcinián heretics*. Meanwhile, Adso is seduced by a peasant girl, with whom he has his first sexual experience. After confessing to William, Adso is absolved, although he still feels guilty. Severinus of Sankt Wendel, the herbalist, tells William that Venantius's body had black stains on the tongue and fingers, which suggests poison. William and Adso penetrate the library once more, discovering that Venantius had a book stolen from him, which they pursue.

On the fourth day, Berengar is found drowned in a bath, although he bears stains similar to those of Venantius. *Bernard Gui*, a member of the *Inquisition*, arrives to search for the murderer via papal deduction.
Due to this arrival, Gui arrests the peasant girl Adso loved, as well as Salvatore, accusing them both of heresy.

Remigio is interrogated by Gui, who scares him into revealing his heretic past, as well as falsely confessing to the crimes of the Abbey. Severinus then is found dead in his room, to which Jorge responds by leading a sermon about the coming of the Antichrist.

Malachi returns to the early sermon that day near death, and his final words concern scorpions. Nicholas of Morimondo, the glazier, tells William that whoever is the librarian would then become the Abbot, and with new light, William goes to the library to search for evidence. The Abbot is distraught that William has not solved the crime, and that the Inquisition is undermining him, so he fires William. That night, William and Adso penetrate the library once more in search of the *finis Africæ*.

William and Adso discover Jorge waiting for them in the forbidden room. He says that he has been masterminding the Abbey for years, and his last victim is the Abbot himself, who has been trapped in a secret passage of the library. The Abbot suffocates, and Jorge tells them that Venantius's hidden book was *Aristotle's Second Poetics*, which speaks of the virtues of laughter, something Jorge despises. Jorge put poison on the pages on the book, knowing that a reader would have to lick his fingers to turn them. Venantius was translating the book and died. Berengar found the body and disposed of it in pig's blood, fearing exposure, before reading the book himself and dying. Malachi was convinced by Jorge to retrieve the book, which was stashed with Severinus, so he kills Severinus and retrieves the book, before getting curious and dying as well.

All of the murders time out with the Seven Trumpets, which call for objects falling from the sky (Adelmo threw himself from a tower), pools of blood, poison from water, bashing of the stars (Severinus was killed with his head bashed in with a celestial orb), scorpions, locusts, and fire. Jorge consumes the book's poisoned pages and uses Adso's lantern to start a fire, which burns down the library. As the fire spreads to the rest of the abbey, William laments his failure. Confused and defeated, William and Adso escape the abbey. Years later, Adso, now aged, returns to the ruins of the abbey and collects books that were salvaged from the fire, creating a lesser library.

**Book Review: The Name of the Rose by Umberto Eco**

https://medium.com/@dsfish/book-review-the-name-of-the-rose-by-umberto-eco-265be0c09e79

The hook couldn’t be more obvious. When a string of strange deaths plagues a wealthy Italian abbey, Brother William of Baskerville is called to unravel the mystery. In this 14th-century thriller, every death exposes a new piece of an age-old conspiracy. Dangerous knowledge and the future of the Catholic Church hang in the balance. Follow along as William races against time to crack the case!

... *The Name of the Rose* is plodding and complex. It does not have the pace of a murder mystery and that’s because it’s actually much more of a historical novel than anything else. Its first priority — far above entertaining the reader or advancing the plot — is to situate itself perfectly in history, to merge so cleanly with the past that the reader can’t see the seams. *The Name of the Rose* is obsessive in a lot of ways, beginning with its own credibility.

Your typical murder mystery starts with a bang, but this one starts with a fake history lesson. In the opening pages we learn that *The Name of the Rose* is not actually a novel written by Umberto Eco. Eco has merely translated and titled a book given to him in 1968 by someone named Abbé Vallet. This book was *Le Manuscrit de Dom Adson de Melk*, Vallet’s 1842 French translation of a Latin text written by an aging monk, Adso of Melk, in 14th-century Italy. Adso’s original text is the story itself: the mysterious saga of seven deaths in 1327, which he witnessed firsthand in his youth while shadowing his master — our detective — William of Baskerville. To recap: you’re reading a (fictitious) Latin 14th-century eyewitness account, translated into French by (the fictitious) Abbé Vallet in 1842, translated again (but not actually) into Italian by Umberto Eco in 1980, and if you’re reading the English version, you can add yet another layer for William Weaver’s (fantastic) 1983 English translation.

With its own origins settled, the book spends the subsequent 500 pages weaving itself as tightly into the fabric of history as possible. *The Name of the Rose* is part of that special breed of historical fiction that doesn’t merely fork off of recorded events but integrates so completely with them that it becomes difficult to separate fact from fiction. I certainly struggled with this, so if you’re going to read the book I highly recommend brushing up on the medieval history of the Catholic Church. Key actors and topics include Michael of Cesena, Louis IV, William of Ockham, popes of that time period, and evangelical poverty.

You may also wish to learn Latin.

Here’s the background I wish I’d had before I started reading. *The Name of the Rose* pivots on a doctrine known as evangelical (or apostolic) poverty, which was particularly divisive in the 14th century and which calls for Christians to live without holding any property. The belief stems from *Luke 10*, in which Jesus sends his 70 disciples on a mission without any supplies: “Go away; I, send you forth as lambs in the midst of wolves; carry no bag, no scrip, nor sandals.” Thus a small subset of Catholics began to equate not having any property with being holy. For obvious reasons this idea appealed to the impoverished masses, who had a head start on not owning anything, and the movement picked up steam. In the early 14th century, Pope...
John XXII made every attempt to block its progression, in fear that it would cast a negative light on the Church and ultimately threaten its wealth and land ownership, and the widespread control they offered. He condemned it as heretical in 1323 but that didn’t stop the Spiritual Franciscans, so named for their devotion to Saint Francis of Assisi, from continuing to live by this contentious doctrine. The Spiritual Franciscans were supported by Louis IV, then king of the Romans and of Italy, and led by Michael of Cesena. In 1327, Pope John would summon Michael to Avignon to answer for his order’s “heretical” behavior, an event that would lead to Michael’s excommunication.

So where does *The Name of the Rose* fit in? Eco’s story takes place just before Michael’s arrival in Avignon, somewhere along his journey through Italy, in an abbey tucked into the mountains. Here, the story goes, Michael and his order would stop to meet with some of the pope’s men so that they might resolve their differences peacefully and privately. Presiding over the meeting would be William of Baskerville, a Franciscan loyalist who might enable the Franciscans to absolve themselves of heresy before it was too late — before Michael would be forced to walk right into the pope’s hands at Avignon.

The story begins with William and Adso traveling to the abbey a few days early to prepare for the meeting. But upon their arrival they learn some troubling news. One night earlier, a monk plummeted to his death from the tallest building in the abbey. Over the next several days more strange and horrible deaths transpire and so the stakes become clear: William must solve this mystery before the pope’s delegation arrives. Otherwise, foul play will be suspected and the meeting will be for naught. The future of the Franciscan order depends on William’s mystery-solving skills.

It is an absolute pleasure to follow William as he uncovers the abbey’s darkest secrets, often by making forbidden trips to the abbey’s labyrinth of a library, and edges closer to solving the puzzle. But this is no free ride. Much is demanded of the reader; I found it impossible to keep track of everything without taking notes. *The Name of the Rose* is not only obsessed with situating itself in history but with ensconcing the reader in that rich historical context as well. You will learn more about religious sects and Biblical interpretation than you ever cared to know. You will be invited to ponder the political aspirations of the Church and its relation to various European rulers. The text indulges in erudite discussions of philosophy and semiotics. A central plot device hinges on how certain geographical locations produce — or should produce — certain manners of thinking. Nothing is easy.

Even the most foundational part of the story, its characters, proves challenging. The reader is responsible for tracking a dense list of characters, both real and fictional, that never stops expanding. There are two Williams and two Berengars. There’s Abo and Adso and Adelmo. There are characters introduced early who never reappear and characters introduced late who are essential to the plot. I took notes on twenty-two of them, not counting the historical figures who don’t appear in the story, and I’m probably missing a lot more.

The question isn’t *Does Eco pull it off?* — he does, spectacularly — but *Is it worth the effort?* Some books are worth reading simply because they’re hard. Does *The Name of the Rose* fit that bill or is it somehow also enjoyable? Can it be difficult and fun?

I won’t lie to you. It is absolutely a slog at times. A friend of mine who recently read the book complained to me about a chapter in which Adso spends six pages describing a door. Adso *loves* to catalog things, almost to the point of hilarity. At one point he gains entry to the abbey’s vault and describes the treasures within — “Gold vestments, golden crowns, studded with gems, coffers of various metals engraved with figures, works in niello and ivory. [...] I saw, wonder of wonders, under a glass bell, on a red cushion embroidered with pearls, a piece of the manger of Bethlehem, and a hand’s length of the purple tunic of Saint John the Evangelist, two links of the chains that bound the ankles of the apostle Peter in Rome...” — and it’s amazing he doesn’t run out of commas.

So, sure, there are moments when *The Name of the Rose* feels more like work than play. But it does reward the reader with some wonderful scenes of sleuthing. Put simply, it is fun in the way you want a detective novel to be. William of Baskerville is a great character: cunning, moral, independent, and always a step ahead. You never tire of watching him solve mysteries. The reader is first exposed to his brilliance during his and Adso’s initial ascent to the abbey. When the pair is approached by a band of monks, William immediately intuits that they are searching for a lost horse. He tells the monks where the horse has been and where it has gone, and describes its appearance in great detail:

“Brunellus, the abbot’s favorite horse, fifteen hands, the fastest in your stables, with a dark coat, a full tail, small round hoofs, but a very steady gait; small head, sharp ears, big eyes.”

This bewilders the monks and Adso, too, because, as William says, "We haven’t seen him at all." A few moments later the horse is found exactly where William said he would be. When Adso asks William how he was able to deduce so much without ever seeing the horse, William’s response is perfect:

“During our whole journey I have been teaching you to recognize the evidence through which the world speaks to us like a great book. [...] I am almost embarrassed to repeat to you what you should know. At the crossroads, on the still-fresh snow, a horse’s hoofprints stood out very neatly, heading for the path to our left. Neatly spaced, those marks said that the hoof was small and round, and the gallop quite regular — and so I deduced the nature of the horse, and the fact that it was not running wildly like a crazed animal. At the point where the pines formed a natural roof, some twigs had been freshly broken off at a height of five feet.
One of the blackberry bushes where the animal must have turned to take the path to his right, proudly switching his handsome tail, still held some long black horsehairs in its brambles...."
And so on, until every last detail has been explained. There aren't a lot of these Sherlock Holmes-esque reveals but each is more imaginative than the last, making for a deeply satisfying read.
A good murder mystery is clever when it needs to be, but this one is clever whenever it can be. Eco prefers his humor arid, and I can only assume that for every joke I understood there were about a hundred more that sailed straight over my head. Join the fun — find the joke in this passage:
"But those were times when, to forget an evil world, grammarians took pleasure in abstruse questions. I was told that in that period, for fifteen days and fifteen nights, the rhetoricians Gabundus and Terentius argued on the vocative of 'ego,' and in the end they attacked each other, with weapons."
No? Your Latin is in need of a good dusting. The joke is that the rhetoricians were arguing over the vocative of ego, which is the Latin word for "I." In Latin, nouns are expressed in cases, with each case serving a particular function. The genitive case, for example, is used to show ownership over something: it's the Latin version of an apostrophe. The vocative case referred to above is used when directly addressing someone else. If you wanted to say hello to your friend Marcus, you'd say "Salve Marce"; the name "Marcus" changes to "Marce" in the vocative case. The rhetoricians were arguing over the vocative of "I," which is funny because one never addresses another person with "I," and so the argument is pointless. Well, at least until weapons get involved.
But silly me. I didn't realize that this pun isn't Eco's own invention but an allusion to a text by the 7th-century author Virgil the Grammarian. The Name of the Rose is many things, but accessible is not one of them. Occasionally Eco tosses the reader a bone. During William and Adso's visit to the abbey's vault, Adso gets starry-eyed over the rare religious artifacts, such as a fragment of the True Cross, and William cautions him not to pay them too much heed:
"I have seen many other fragments of the cross, in other churches. If all were genuine, our Lord's torment could not have been on a couple of planks nailed together, but on an entire forest."
You're not alone if this humor isn't your cup of tea. Adso has trouble with it, too:
I never understood when he was jesting. In my country, when you joke you say something and then you laugh very noisily, so everyone shares in the joke. But William laughed only when he said serious things, and remained very serious when he was presumably joking.
The front cover of my copy of The Name of the Rose features a snippet from the New York Times review written by Franco Ferrucci: "Explodes with pyrotechnic inventions, literally as well as figuratively. Hold on till the end." I happen to agree with Ferrucci, not because of the story's climactic finale but for a different reason: the 30-page postscript that Eco wrote three years after his novel's publication. (Apparently his obsession with contextualization didn't stop after he finished writing.) Within, Eco addresses a number of questions that the book raised, as well as what his goals were in telling this particular story and what he was thinking about as he wrote.
I should probably mention that his postscript isn't a cheat sheet or a guide to interpretation. On the contrary, Eco carefully avoids giving anything away. "The author should die once he has finished writing," he explains. "So as not to trouble the path of the text." Eco appears to be tapping into the same stuff that Roland Barthes proposed in his 1967 essay, "The Death of the Author," which argues that "to give an Author to a text is to impose upon that text a stop clause, to furnish it with a final signification, to close the writing." Eco pursues the idea a little further and implies that if an author's mere existence is enough to handicap a novel, then explaining a novel would undermine its raison d'être:
A narrator should not supply interpretations of his work; otherwise he would not have written a novel, which is a machine for generating interpretations.
So you won't find any explanations in this postscript. What you'll find instead is a bounty of observations and tidbits that contextualize the writing process much more than the text itself. The best part of any detective novel is climbing into the head of the mastermind, so it's a total joy to climb into the head of the mastermind behind the mastermind. Where did the idea for this story come from? How did he make choices in narration and tone? What regrets does he have? It's all there, and it's all fascinating.
Let me give you an example. It ruins very little about the novel to give away one of its gory deaths: that one character was discovered dead, "thrust head down into" a jar of pigs' blood. This is the kind of detail that makes quite an impression on the reader — and on the monks who discovered the dead man, to be sure — for obvious reasons, and the symbolism of the gesture serves a larger plot point that I won't go into. But I'll admit that I never pondered why exactly there would be a vat of fresh pigs' blood available. I kind of just accepted it. But Eco did not include this detail on a whim; he organized the story around it:
But why does everything take place at the end of November 1327? Because by December, Michael of Cesena is already in Avignon. [...] But November is too early. I also needed to have a pig slaughtered. Why? The answer is simple: so that the corpse could be thrust, head down, into a great jar of blood. [...] Now, it so happens (I made inquiries) that pigs are not slaughtered until cold weather comes, and November might be too early — unless I situated the abbey in the mountains, so there would already be snow.
The commitment to historicity—what Eco calls “furnishing a world in a historical novel”—is astonishing. There are other reveals in his postscript that I am dying to include but can’t without spoiling the story. Eco’s original motivation for writing this novel? Hilarious. The secrets behind the labyrinthine library, which he spent three months designing? Unfathomable. Forgive the apparent hyperbole: the man is simply that good. In addition to revealing a few of the magician’s secrets, the postscript serves to validate the reader’s journey. I felt rather self-conscious about finding the story slow-going until I discovered that Eco had made it crawl on purpose:

After reading the manuscript, my friends and editors suggested I abbreviate the first hundred pages, which they found very difficult and demanding. Without thinking twice, I refused, because, as I insisted, if somebody wanted to enter the abbey and live there for seven days, he had to accept the abbey’s own pace. If he could not, he would never manage to read the whole book. Therefore those first hundred pages are like a penance or an initiation, and if someone does not like them, so much the worse for him. He can stay at the foot of the hill.

The concept of pace—what Eco calls “breathing”—is only one example of the many ways that the author has considered his reader. Eco has labored over the title, setting, historicity, voice, religious history, humor, emotion, entertainment value, and practically everything else one could consider about a book. The result is exceptional, and almost nauseating when you realize that this was Eco’s first novel.

Recall that when Adso and William first climbed the hill to the abbey, William implored Adso “to recognize the evidence through which the world speaks to us like a great book.” Eco, who died last year, was a trained semiotician and dedicated much of his life to understanding how the world’s symbols speak to us. He has written much of himself into William, a character who excels at detective work because of his commitment to interpreting symbols, symbols that he knows are not limited but infinite in their expression, and that therefore speak differently to different people. Likewise, Eco remarks in his postscript that he wanted every reader of his book to emerge with a different interpretation, and I expect that he has succeeded. For it is true that the world speaks to us like a great book, then perhaps it is also true that a great book can speak to us like the world, and that like the world it can provide a unique and transformative experience for everyone involved. Umberto Eco has left us with a world waiting to be discovered, tucked away in history, in language, in the cold Italian mountains… Climb the hill.

What Is The Name of the Rose About?
https://www.patheos.com/blogs/kateohare/2019/05/name-rose-sundance-umberto-eco/

What Is The Name of the Rose About?
Published in 1980 in Italian, and in 1983 in English, Eco’s debut novel is a strange mix of medieval history, fiction, literary references, Catholicism and classic murder mystery, with dollops of sex and violence. It centers on Franciscan friar William of Baskerville (played by Turturro, and, yes, that is a Sherlock Holmes reference, if it hadn’t already hit you over the head), a man of faith and reason — and before you ask, he never loses either — but also a wise man of the world.

With Benedictine novice Adso of Melk (Damian Hardung) in tow, he arrives at a Benedictine monastery in northern Italy in 1327 to attend a theological disputation. Here’s how Wikipedia describes that:

*In the scholastic system of education of the Middle Ages, disputations (in Latin: *disputatio*), singular: *disputatio* offered a formalized method of debate designed to uncover and establish truths in theology and in sciences. Fixed rules governed the process: they demanded dependence on traditional written authorities and the thorough understanding of each argument on each side. Among the questions up for dispute is the wealth of the Church versus the radical poverty preached by the Fraticelli (Little Brethren), a k a the *Spiritual Franciscans*. Declared heretical in 1296 by Pope Boniface VIII, they took St. Francis’ devotion to Lady Poverty to an extreme, seeing the Church holding any property as scandalous. There were other, similar heretical Fraticelli sects that popped up in the 14th (that would be the 1300s, if you’re keeping score) and 15th centuries, mostly in Italy, that broke off from the main Franciscan order and sometimes set themselves against it. William of Baskerville is a Franciscan but not a Fraticelli. He’s also a former Inquisitor, imprisoned and tortured after refusing to carry out fellow Inquisitor Bernard Gui’s (Everett) condemnation of a man for heresy. He’s fictional, and so is Adso and the abbey, but Gui was real. The novel, the 1986 movie made of it (starring Sean Connery as William), and the new miniseries freely mix fact and fiction. A series of gruesome murders of monks test William’s investigative skills, as he unwinds both the killings and the secrets of the abbey’s huge library. (BTW, for those who think the Middle Ages was a lost era of ignorance and superstition, first, they’re wrong, and second, the modern world has monks, especially Irish monks, to thank for dedicating their lives to preserving many books, including the Greek pagan classics. You’re welcome.)*
For sensible Catholics, the idea that remote monasteries contained a variety of people, some of them wicked, and others peculiar, including some with physical and emotional handicaps, should not come as a surprise. That clerics (or novices) stray from their vows of celibacy and chastity is also not news. That some Inquisitors were men of justice but others may have been cruel, sadistic or corrupted should also not raise eyebrows.

But having people like these in the book has earned Eco’s novel the reputation of being anti-Catholic. I’ve always disagreed. Human weakness and depravity are there, but also nobility and faith. And, as I said, William and Adso remain men both of faith and reason, until the end.

What I Didn’t Like About It

I am a fan of the 1986 movie and enjoyed all eight episodes of the Sundance version — with two glaring exceptions.

In the interest of inclusion or diversity or whatever, this version has increased the role of an illiterate peasant girl that catches Adso’s interest, including making her literate. In 1327, unless she was a nun or aristocratic/royal (and often not even then), the odds of a woman being literate were pretty slim, but not much more slim than the odds of any peasant of either sex being literate. And, the miniseries adds a female character with a sword, a Joan of Arc bob and revenge in her heart. As a woman, I continue to find this shoehorning of women into stories where they don’t naturally belong or originally belonged — or to alter the characters of real historical women into something they’re not, just to make a feminist point (looking at you, The Spanish Princess) — to be condescending and patronizing. Other than this unwarranted alteration, this new The Name of the Rose is fairly faithful to the original. If you find it hard to follow, that’s because the novel is hard to follow (read here to learn the length some folks go to, to understand it).

The Very Catholic Both/And of the Middle Ages

The Middle Ages were a complicated time, both suffering terrible wars, persecution and disease, and also producing sublime works of art, architecture and literature. The Church both fought against heresy and protected the wisdom of pagan authors and promoted education. There were both great, serious saints like Thomas Aquinas, and gentle Francis of Assisi, who had the soul of a preacher and the heart of a singing troubadour.

http://www.postmodernmystery.com/name_of_the_rose.html

Essay by Ted Gioia

On any list of unlikely bestsellers from the last century, The Name of the Rose must hold a special place of distinction. Nothing is rarer than for a novel translated from Italian to reach the top of the New York Times bestseller list—unless it is, of course, a megahit book written by an academic whose best-known previous work was A Theory of Semiotics.

And did I mention that the plot revolves around medieval theology? Even after it was translated into English (and numerous other languages), The Name of the Rose still had intimidating chunks of Latin on almost every page, and a smattering of other defunct languages scattered hither and thither. I took four years of high school Latin, yet I still would have been lost while reading this book if I hadn’t had a copy of The Key to ‘The Name of the Rose’ (by Haft, White & White) by my side. Yet despite these obstacles, small and large, this arcane novel sold a reported fifty million copies, which puts it in the league of Harry Potter, and ahead of Gone With the Wind, Roget’s Thesaurus and To Kill a Mockingbird.

But not all is foreboding and recondite in The Name of the Rose. The book also follows the familiar genre patterns of the mystery—think of it as a cross between Agatha Christie’s And Then There Were None and Aquinas’s Summa Theologica. Monks are dying under curious circumstances, and the detective (okay, he’s just a monk too, but a very smart one) William of Baskerville is asked by the abbot to get to get to the bottom of it. Baskerville is assisted by Adso of Melk, who is sort of a tonsured Dr. Watson. In fact, I kept waiting for William to interject: “Eleemosynary, my dear novice Adso.”

In the background, Eco constructs a labyrinth of supporting plots (including one involving a labyrinth). William has arrived at the Abbey as a representative of Emperor Louis IV in order to participate in negotiations also involving emissaries from the Pope, who is in heated conflict with the Emperor, and the Franciscan order, then caught in the crossfire between secular and ecclesiastical agendas. This part of the story draws the reader into further subplots involving heretical and rebellious church movements, and the various inquisitions and repressive actions employed in combating them. And all these elements draw in aspects of theology, philosophy and history, that constantly linger in the background of The Name of the Rose, and sometimes dominate the foreground as well. This may sound dry and academic, but Eco builds his polemics around forceful personalities.
Like any good mystery writer, he knows that it is essential to populate his story with many likely suspects, a plethora of possible murderers. Here we encounter Salvatore, the secretive and gluttonous monk who speaks in a strange composite jargon—made up of bits and pieces of contemporary and ancient languages—and who is disturbingly vague when asked about certain particulars in his past. Malachi, the librarian, also arouses our suspicions: he never allows anyone into the third floor of the Aedificum, the fortress where the abbey’s rare collection of manuscripts and books are held, yet mysterious lights can be seen through the windows at night. Severinus the doctor and herbalist might also be a murderer—he knows an uncanny amount about rare poisons. Jorge of Brugos, the blind man, seems to know even darker secrets and shows up quietly and stealthily at the least expected moments. Even Abo the Abbot is not above reproach, and comes across as far more concerned with worldly riches and power than is befitting for a Benedictine monk.

But the most compelling character is our detective William of Baskerville. Have you encountered mysteries where the private investigator was once a policeman, but left the force after encountering too much corruption? Well, the same is true of William, except the organization he left behind wasn’t the L.A.P.D, but the Inquisition. (Fill in your own wisecrack here.) He didn’t like the modus operandi, and now operates as a free agent, but—unlike your typical private eye—he has the benefit of an Oxford education, and mentoring by Roger Bacon and William of Ockham, whose approach to natural philosophy proves to be a good medieval substitute for a degree in criminology.

Much has changed in the world since the late Middle Ages, but there are some constants. The seven deadly sins are still around, and if you have any doubts over how deadly they might be, The Name of the Rose will settle the argument. Eco also adds a convincing love story, with just the right dose of concupiscence for the modern reader—not easy for a story set in a monastery, but our author is a master of plotting, so such obstacles are deftly overcome. All in all, The Name of the Rose combines the best elements of a historical romance, a thriller, and a novel of ideas.

Yet our author would not be Umberto Eco, if the book wasn’t full of intertextual, intratextual, and countertextual twists. For Eco, another turn of the screw means another book within a book, and Eco gives us several additional turns here. Not only does the story involve texts, as well as texts that relate to other texts; not only do manuscripts figure as possible clues, motives and weapons in The Name of the Rose; but even the narrative itself is reportedly drawn from a book the author found in 1968 that contained a 14th century text from a Benedictine monk, Adso of Melk. I can’t say much more without giving away the plot, but I will tell you that, after reading The Name of the Rose, you won’t ever again look at the library as just a clean, well-lighted place for books.

Umberto Eco’s The Name of the Rose is a brilliant mystery set in a fictitious medieval monastery. The text is rich with literary, historical, and theoretical references that make it eminently re-readable. The Key makes each reading fuller and more meaningful by helping the interested reader not merely to read but also to understand Eco’s masterful work. Inspired by pleas from friends and strangers, the authors, each trained in Classics, undertook to translate and explain the Latin phrases that pepper the story. They have produced an approachable, informative guide to the book and its setting—the middle ages. The Key includes an introduction to the book, the middle ages, Umberto Eco, and philosophical and literary theories; a useful chronology; and reference notes to historical people and events. The clear explanations of the historical setting and players will be useful to anyone interested in a general introduction to medieval history.

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**Naming the Rose: Readers and Codes in Umberto Eco’s Novel**

Naming the Rose: Readers and Codes in Umberto Eco's Novel
Steven Sallis
http://people ds. cam. ac. uk/paa25/Pierpaolo%20Antonello/It6_files/sallis-eco.pdf
Umberto Eco's theory of semiotics has taken an evolutionary path of development. A Theory of Semiotics, the first English edition of Eco's semiotics theory, was a detailed explanation of his theory of signs. The major criticism of this work, a lack of references to specific literary texts to elucidate the theory, led to The Role of the Reader. This book repeated the theoretical basis of the first book, but it also included a major section of specific literary texts such as Sue's Les mystères de Paris and Allais's Un drame bien parisien. Eco reaches the most recent stage of his theoretical work with The Name of the Rose, a novel which was published in Italy in 1980 and translated into English in 1983. In this novel, as one critic suggests, Eco has moved from semiotic theory to "semiotic fiction." As Eco himself says in the closing line of his introduction to The Role of the Reader: "after having to let semiotics speak abundantly about texts, it is correct to let a text speak by itself about its semiotic strategy". In "The Theory of Signs and the Role of the Reader" Eco explains the evolution of semiotics during the past twenty years. During the sixties, semiotics focused on the theoretical foundation of signs or sign-tradition. During the seventies, "there occurred a violent shift from signs to texts"; the emphasis in semiotic theory shifted from considering what constituted a sign to the formation of the text. The third stage (from the end of the seventies to the present) does not center on the "generation of texts but their reading." Eco believes that current semiotic theory is concerned with "the recognition of the reader's response as a possibility built into the textual strategy".

According to Eco, the reader "plays an active role in textual interpretation because signs are constructed according to an inferential model. . . ." Signs are the beginning of a process that leads a reader to an "infinite series of progressive consequences" and are "open devices" that evoke meaning for the reader. This open quality of signs "postulates an active role on the part of their interpreter". By defining this vital theory of signs as moving the reader to an infinite number of possibilities for interpreting a text, Eco argues that semiotics has moved beyond simply listing elaborate patterns for understanding signs and texts (a frequent criticism of semiotic theories) to the importance of the reader in understanding the signs found in the text.

In The Role of the Reader Eco identifies the possible reader as the "Model Reader," who deals interpretatively with the codes within a text just as the author generatively with the codes. The Model Reader and author thus co-operate in discovering the codes of a text. The author can create for the reader two kinds of texts, closed or open. A closed text is designed by the author to elicit a specific response from the reader. However, Eco maintains, the closed text is actually open to several possible interpretations. The text is considered closed precisely because it does not adequately take the reader's ability to interpret a variety of readings into account. The reader of the open text, on the other hand, feels comfortable with "the maze-like structure of the text." A reader can use the open text, however, only as the open text wants to be used. Eco adds the caution that no matter how open a text is it "cannot afford whatever interpretation" a reader might try to force on the text. Thus the Model Reader for an open text must be open to a multitude of codes and their interpretations. The open text can be read in two ways: naively and critically. The textual strategy for a particular text dictates whether a naive reader, a critical one, or both will be required. The naive reader is unable to perceive the maze-like structure of the open text and, therefore, is unable to appreciate the text fully. The critical reader succeeds only by overcoming the naive
reading and discovering the textual strategy which will help explain the codes of the text. Both the naive and the critical reader approach a metatext, a text which is both closed and open. Requiring such exactness makes the task of the reader of the metatext, such as The Name of the Rose, an exercise in freedom. If the reader is to enjoy a text, all the "paths of [the text's] reading" must be explored (RR, 10).

A reader could explore The Name of the Rose on several levels. Descriptions of monastic and civic rivalry, the troubled history of the papacy in the fourteenth century, and lists of medieval herbs, beasts, and favorite books would captivate a reader with interests in the Renaissance. The unusual murders, clues to the murderer's identity, and the narrator's observations would lead the adept mystery-reader to the text in order to try to solve the mystery of the novel's intrigue. The exposition of Eco's semiotic theory would lead the reader interested in literary criticism to yet another level of reading, the examination of the role of the reader in interpreting a text.

As far as I have been able to determine, no one has yet attempted to explain Eco's use of the naive and the critical reader within his novel. (6) Eco reveals the two kinds of readers through two characters in the novel who explore the world within the text by discovering the meaning of signs just as a naive or a critical reader outside the text could discover the meaning of the metatext. Adso, the narrator, represents the naive reader. Writing the story as an old Benedictine monk, Adso describes the events that took place years earlier when he was a young novice. Although Adso has a gift for observation, which he uses throughout his story to describe such details as the physical features of the people he meets and the art and architecture of the great abbey, his description is merely a collection of surface details with little or no reflection on their significance or meaning. Being unable to see beyond the immediate situation, Adso is incapable of understanding the real meaning of the clues presented to him.

The critical reader is reflected in William of Baskerville, a fourteenth-century Franciscan version of Sherlock Holmes. (7) William is sent to various abbeys on official church business because of his reputation as a shrewd observer of life. Adso describes William's ability to deduce truth from facts as follows: He not only knew how to read the great book of nature, but also knew the way monks read the books of Scripture, and how they thought through them. A gift that, as we shall see, was to prove useful to him in the days to follow. (NR, 24-25)

William represents the critical reader who recognizes various levels of signs in the universe (the great book of nature) and in books. Just as a critical reader is able to find a way through the maze-like structure of a text, so William is able to find his way through the maze of clues in order to solve the mystery he has been asked to solve.

According to Eco, both the naive and the critical reader can approach an open text (RR, 10). In The Name of the Rose Eco allows both types of readers to be represented in both Adso and William. Both characters help to explain the significance of the readers of a text by helping the reader of the novel to find a path through the text's maze. Eco has helped the reader to develop a textual strategy by showing how the text can be "read" by the naive reader and the critical reader.

In The Role of the Reader Eco offers a critical reading of the metatext Un drame bien parisien. He states that the critical reading not only assumes that the first (naive) reading has already occurred but that the critical reading undergoes "the analysis of its own interpretative procedures" while it goes beyond the naive reading (RR, 205). The Name of the Rose is also a metatext: it is closed "in its uniqueness as a balanced organic whole," and it is open "on account of its
susceptibility to countless different interpretations which do not impinge on its unadulterable specificity” (RR,49). As a metatext, The Name of the Rose can be seen to have several stories to tell (as Eco suggests for the metatext Un drame bien parisien):

the story of what happens to its dramatis personae; the story of what happens to its naive reader; the story of what happens to itself as a text (this third story being potentially the same as the story of what happens to the critical reader). (RR, 205)

The Name of the Rose is seen in its simplest form as the story of the characters themselves. William of Baskerville, a Franciscan, is on a visitation at a Benedictine abbey. Upon arriving at the abbey, William is asked by the abbot to investigate the strange death of one of the monks. In the course of William's visit, Steven Sallis five other monks are murdered. William, with the help of his traveling companion, Adso, eventually discovers the murderer, who commits suicide. The murderer's death leads to a fire, which burns down the great abbey. This very brief summary captures the essence of the first level of the story.

The second and third levels of the story cannot be seen apart from their codes. In brief, codes are the keys which unlock the signs of a-text. The code contains elements which are present in the expression of the story and also refers to elements which are absent because they are part of another system.(8) This presence/absence component of codes allows for the richness of intertextuality by which "a text could generate, by further semantic disclosures, every other text" (RR, 24). This intertextual element is extremely important in The Name of the Rose, as the dust jacket of the first Italian edition of the novel suggests: "this text is a textile of other texts, a 'whodunit' of quotations, a book built upon books" (Stephens, 51).

Eco skillfully interlaces his text with allusions to a wide spectrum of religious texts, philosophy, and literature. In several passages in the novel, he uses The Rule of St. Benedict as a text within his text. William and Adso enjoy a meal with the abbot which illustrates Eco's use of the Rule by discussing that passage in the Rule where the holy founder observed that wine, to be sure, is not proper for monks, but since monks of our time cannot be persuaded not to drink, they should at least not drink their fill, because wine induces even the wise to apostasy, as Ecclesiastes reminds us. Benedict said 'of our time' referring to his own day, now very remote. . . (NR, 94)

A comparison of this passage with Chapter 40, in the Rule "The Proper Amount of Drink," reveals that Eco has used the text well by pointing out Benedict's admonition to the abbot to take local needs into consideration in such matters as food and drink.(9) Texts from the Bible also find frequent use in Eco's novel. The murders are patterned after the Apocalypse, and Adso frequently makes scriptural references a part of his descriptions. References are also made to Aristotle, William of Occam, Thomas Aquinas, and Roger Bacon, who represent some of the authors of philosophical texts which find their way into the novel.

Walter Stephens suggests that the character of Jorge of Burgos is patterned after Jorge Luis Borges. Stephens says that The Name of the Rose "owes its heaviest literary debt to the fiction and essays of Borges, and explicates much of Eco's semiotics as Borgesian." Indeed, according to Stephens, Borges's idea of the library as "a semantic cosmos, a specular inversion of the medieval idea of liber mundi, of the cosmos as a book" is reflected in the abbey library in Eco's novel. The many similarities between Burgos and Borges, (e.g., both are interested in literature) point to the skillful use of intertextuality by Eco in his novel (Stephens, 58).(10)

Naming the Rose 6 The importance of intertextuality emerges especially in the final chapter when Adso describes events after the fire has consumed the abbey. He returns to
his monastery at Melk to become a monk. Years later Adso's abbot sends Adso to Italy, and he cannot resist a visit to the abbey's ruins. He collects scraps of books which he finds scattered about the ruins and upon his return to Melk describes the restoration process of the remnants as follows:

I spent many, many hours trying to decipher those remains. Often from a word or a surviving image I could recognize what the work had been. When I found, in time, other copies of these books, I studied them with love, as if destiny had left me this bequest, as if having identified the destroyed copy were a clear sign from heaven that said to me: Tolle et lege. At the end of my patient reconstruction, I had before me a kind of lesser library, a symbol of the greater, vanished one: a library made up of fragments, quotations, unfinished sentences, amputated stumps of books. (NR, 500).

Adso has preserved some of the texts for posterity in his own way by compiling a collection of the fragments; he has created his own intertext which will be saved for future generations.

That the novel is a book built upon books is particularly important when one considers that the main occupation of the monks is related to books. The abbey has one of the greatest libraries in Europe and prides itself on the library's reputation. Some of the abbey's books, in fact, are found nowhere else in the world. Yet in addition to serving as a repository for the world's great books, the abbey library carries on the literary tradition by helping the monks copy the older manuscripts to preserve their contents. (Actually, the monks do not simply copy the manuscripts but engage in adorning the text with marginalia, notes, figures, and other artistic embellishments.) The monks who work in the scriptorium begin to identify themselves with the manuscripts they are copying and consider themselves guardians of the great learning of the world.

What is most remarkable about the abbey library is not its extensive collection, however, nor the amount of time the monks spend in preserving its contents but its physical arrangement. The abbey library is a labyrinth to which only the abbey librarian and his assistant know the solution. The knowledge found in the library must be mediated through someone who is able to understand the mystery of its secret (code). Even when William is given permission by the abbot to conduct an investigation about the murders, he is not allowed to see the library. He must be content, like other patrons, to find the listing for a book in the great catalog and ask the librarian to bring the requested book. The monks have become so possessive of their books that they have forgotten the very purpose for which they are kept: to allow others to share in the knowledge contained therein. The library has become a stagnant entity rather than a vital force for the members of the abbey or for any other potential patrons.

Steven Sallis 7 As William continues his investigation, he is certain that the solution to the murders lies within the labyrinth/library. All of the murdered monks had direct contact with the library, and all the clues that William is able to deduce are related to the library. He is determined that the solution to the library must be found in order to continue his investigation. One night William takes Adso with him to investigate the library. The results are disastrous. They lose their way several times and almost give up hope of finding their way out before they accidentally discover an exit.

The story at this point remains on the second level of the naive reading. Here again, through the events in the story Eco suggests something about naive and critical readings. Entering the library for the single purpose of solving the murders, William does not take into account the other possible codes or secrets which the library might have to offer. As a result of this narrow possibility for interpretation, William remains with Adso on the naive level of interpretation. As a reader William excludes certain available interpretations, and thus the li-
brary and its codes are a source of confusion—the maze is unintelligible. As a
naive reader William creates a closed interpretation. It is only when William
gives up trying to force his own preconceived interpretation on the library that
he and Adso are able to find their way out of it. Similarly, only when a reader
truly responds to a text as the text wishes to be responded to will a reader find
its true meanings.

The heading of the chapter in which William finally discovers the secret of
the library's maze states that "William has some astounding ideas for decipher-
ing the riddle of the labyrinth and succeeds in the most rational way" (NR,
210). The story begins to move toward the third level of critical reading.
William knows certain things about the labyrinth from the experience of being
inside the library when he and Adso were lost. Yet it is impossible to try to
solve the maze from inside the library because the possibilities are too limited; as
one moves within it, one is constantly changing directions and therefore cannot
visualize the whole maze. William tells Adso, "we must find, from the outside,
a way of describing the Aedificium as it is inside . . ." (NR, 215). Using logic
and mathematics, William is able to figure out the general plan of the maze
from looking at the outside of the Aedificium, the number of windows, the
placement of windows in certain walls, and other details. By looking at the out-
side structure (the known), William is able to understand the inside (the not-
immediately-apparent meaning) of the library. Similarly, the reader of the novel
receives more information on the codes within the text by William's discovery.
After Adso's preliminary drawing of the library based on their observations
outside the Aedificium, William and Adso once again venture into the library
and succeed this time in discovering the secret (code) of the library. Two pat-
terns of organization for the labyrinth/library emerge: one according to the
first letter of a passage from the Apocalypse which appears on the wall of each
Naming the Rose 8 room and the second according to a map of the world. The answer has required
William's knowledge of the books of Scripture as well as the book of nature.
If interpreting the code of the library were enough to solve the mystery be-
hind the murders, Eco would have created a closed text instead of an open one.
But William still must discover what the library holds that would merit mur-
der. He returns to books for his answer because, as he tells Adso, "Often books
speak of other books" (NR, 286). William pores over the catalog of books,
analyzes handwriting, and tries to uncover the code for a secret message written
by Venantius, one of the murdered monks. He is able finally to decode the se-
cret message but ends up with another riddle: there is a particular book in the li-
brary which holds the secrets of the mystery. Eco constantly reminds the reader
that codes are very complex in a metatext and require many levels of interpreta-
tion; naming the rose is not an easy task to accomplish.
William, with the help of the ravings of the semi-mad monk Alinardo, be-
lieves that the murders follow the pattern of the images in the book of the
Apocalypse. For example, the second trumpet heralds blood; Venantius is found
drowned in a vat of pig's blood. William discovers the murderer's identity,
however, because he remains open to the clues; he no longer tries to force the
clues to suit his own needs as he did earlier in the library when he and Adso
were lost. Moving from the Apocalypse to the details surrounding the acquisi-
tion of certain manuscripts of the Apocalypse which also contain the secret
book, William identifies the murderer, the old blind librarian, Jorge of Burgos,
and the secret book, the second part of Aristotle's Poetics, which discusses
laughter.

This passage points out the necessity of both a naive and a critical reader for a
metatext. Although William at this point of the story has become a critical
reader, Adso remains a naive reader. William has looked so intently at the clues
that he is unable to see the obvious clue pointing to Jorge's identity as the mur-
derer. While William and Adso are in the stables discussing the clues, Adso suggests to William the identity of the murderer. It takes Adso's less reflective, indeed impulsive, suggestion to lead William to the murderer's identity. Because of Adso's suggestion, William is now able to find the finis Africae, a secret room within the library which he has been trying to find. He is able to locate the secret passageway and finds Jorge, who explains his reasons for protecting Aristotle's Poetics. Jorge believes that if the world discovers Aristotle's book which is devoted to laughter, then the world will be damned. Jorge has constantly been admonishing the monks not to laugh and to choose their words wisely; he frequently has been quoting the Rule which contains an admonition to the monks that they should never laugh (see the Rule, chapter 7). Jorge further believes that Jesus never laughed and that it is strictly forbidden by the Christian tradition to engage in the frivolity of laughter. Falling into the monastic temptation of "seduction of knowledge" (NR, 185), the blind Jorge is unable to see beyond his own narrow vision. Fallen so deeply into the snares of the devil that he is seen as the anti-Christ of the Apocalypse, Jorge is blind to any other possible interpretation for the Poetics. William tells Jorge how he discovered his identity: Naturally, as the idea of this book and its venomous power gradually began to take shape, the idea of an apocalyptic pattern began to collapse, though I couldn't understand how both the book and the sequence of the trumpets pointed to you. But I understood the story of the book better because, directed by the apocalyptic pattern, I was forced more and more to think of you, and your debates about laughter. So that this evening, when I no longer believed in the apocalyptic pattern, I insisted on watching the stables, and in the stables, by pure chance, Adso gave me the key to entering the finis Africae. (hTR, 470-71) Jorge tells William that he made the later murders appear to be modeled after apocalyptic images because that is what William expected to happen. Jorge, however, feels no remorse for the deaths. He is sure that God is directing his activities as he tells William, "I became convinced that a divine plan was directing these deaths, for which I was not responsible" (NR, 470). Jorge has merely orchestrated the deaths of the monks rather than directly murdering them. Having been fooled once, William refuses to be taken in a second time by Jorge's plot and realizes that he must take the book away from Jorge. Jorge, however, decides that in order to save the world he must destroy the Poetics. He chooses to eat the pages of the book, which he had covered with poison to safeguard his secret from possible readers. This eating of the poisoned book recalls the action of John in the Book of the Apocalypse and by repeating the bibliophagy of St. John and the 'consummation' of the Liber mundi in the Book of Revelations (the Apocalypse), which finally makes Eco's fabula an effective repetition of the Apocalypse, . . . Jorge's suicide indirectly sparks the ec pyrosis which incinerates the Library and the entire monastery. It is only through Jorge's mimetic suicide that the Apocalypse and the liturgy finally structure Eco's novel in a meaningful sense. (Stephens, 58) As the monastery burns, there is great confusion. No one is able to organize the monks and servants into an effective force to put out the fire. Everything is lost; all the monks abandon the abbey. Formerly the greatest center of learning in Europe, the monastery is now reduced to ruins. As Adso finishes his account (and the novel ends), he reflects, "I no longer know what [the manuscript of his story] is about: stat rosapristina nomine, nomina nuda tenemus" (NR, 502). (A translation would be: the rose stands with its former name, we hold on to the bare names.) Adso realizes that he must remain open to the text; as a reader he can no longer allow for a "closed semiotic project like that which Jorge vainly attempted . . ." (Stephens, 63). At the end of his story Adso thus takes on the role of the critical reader. Like William, Adso...
10 Naming the Rose also must overcome the naive reading of the events at the abbey. He must search for the deeper meanings of the texts which he saved from the abbey ruins; he can only accomplish his task as a critical reader.

Thus as the reader comes to the end of Eco's novel, the question of whether Eco succeeds in his piece of "semiotic fiction" can be asked. If Eco had wanted explicitly to demonstrate a thesis, he could have written more theory. Instead, he wrote a novel, which can only be narrated.12 Furthermore, Eco refuses to admit ownership of the novel by identifying a "manuscript" that he fabricates as the source for the novel (NR, 15). Eco's semiotic journey moves beyond theory to narrative. As Teresa de Lauretis claims, Eco advances the idea of sign to a universal significance beyond a mere theoretical foundation.13 This universal aspect of sign opens up the world of a text available to a reader. Eco thus places one focus in The Name of the Rose on the reader. Both the naive and the critical reader find reflections in the novel in Adso and William, respectively. The movement of these two characters toward encountering the maze-like quality of the library helps the reader interested in literary criticism to see the novel as exploring the role of the reader. Like Adso, the naive reader (the beginning student of literary criticism?) comes to the novel without much critical background but goes away with a new appreciation that allows for further exploration of literary texts. Like William, the critical reader (the seasoned literary critic?) brings his extensive background to the novel and goes away with the realization that even critical readers make mistakes but should be able to enjoy a literary text nonetheless. For the reader of his novel, Eco has made the task of understanding an easy one if the reader is willing to name the rose as "semiotic fiction" which explores the value of signs in literature.

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Notes
2. Umberto Eco, The Role of the Reader: Explorations in the Semiotics of Texts (Bloomington: Indiana UP, 1979). This work will be referred to parenthetically in the text as RR.
3. Umberto Eco, The Name of the Rose, trans. William Weaver (New York: Harcourt Brace Jovanovich, 1983). This work will be referred to parenthetically in the text as NR.
4. Walter E. Stephens, "Ec(h)o in Fabula," rev. of Il nome della rosa, Diacritics, 13, No. 2 (1983), 55. This work will be referred to parenthetically in the text as Stephens.
5. Umberto Eco, "The Theory of Signs and the Role of the Reader," Bulletin of the Midwest Modern Language Association, 14, No. 1 (1981), 35-45. This work will be referred to parenthetically in the text as TS.
6. A source unavailable to me which might contain the discussion of the naive and critical readers in The Name of the Rose is an Italian publication, Teresa de Lauretis, Umberto Eco, Il Castoro, No. 179 (Florence: La Nuova Italia, 1981) as quoted in Stephens, 51.
7. Stephens, page 55 also describes William as Sherlock Holmes.
8. For a detailed explanation of Eco's definition of code, see Umberto Eco, "The Code: Metaphor or Interdisciplinary Category," Yale Italian Studies, 1 (1977), 24-52.
10. Stephens's entire essay is a fascinating exploration of Eco's skill in using intertextuality and especially of his use of Borges, but the discussion goes beyond the scope of this paper.
11. The quotation is reflected in "that which we call a rose / By any other name would smell as sweet?" (Romeo and Juliet, 11, ii, 43-44).
The Reconquista

The Reconquista (Portuguese and Spanish for "reconquest") was the period in the history of the Iberian Peninsula of about 780 years between the Umayyad conquest of Hispania in 711 and the fall of the Nasrid kingdom of Granada to the expanding Christian kingdoms in 1492. The completed conquest of Granada was the context of the Spanish voyages of discovery and conquest (Columbus got royal support in Granada in 1492, months after its conquest), and the Americas—the "New World"—ushered in the era of the Spanish and Portuguese colonial empires.

Traditional historiography has marked the beginning of the Reconquista with the Battle of Covadonga (718 or 722), the first known victory in Hispania by Christian military forces since the 711 military invasion undertaken by combined Arab-Iberian forces. In that small battle, a group led by the nobleman Pelagius defeated a Muslim patrol in the mountains of northern Iberia and established the independent Christian Kingdom of Asturias. In the late 10th century, the Umayyad vizier Almanzor waged military campaigns for 30 years to subjugate the northern Christian kingdoms. His armies, mostly composed of Slavic and African Mamluks (slave soldiers), ravaged the north, even sacking the great shrine of Santiago de Compostela. When the government of Córdoba disintegrated in the early 11th century, a series of petty successor states known as taifas emerged. The northern kingdoms took advantage of this situation and struck deep into Al-Andalus, they fostered civil war, intimidated the weakened taifas, and made them pay large tributes (parias) for protection. After a Muslim resurgence in the 12th century the great Moorish strongholds in the south fell to Christian forces in the 13th century—Córdoba in 1236 and Seville in 1248—leaving only the Muslim enclave of Granada as a tributary state in the south.

History of Toledo

https://en.wikipedia.org/wiki/History_of_Toledo,_Spain#Medieval_Toledo_after_the_Reconquest

On May 25, 1085, Alfonso VI of Castile took Toledo and established direct personal control over the Moorish city from which he had been exacting tribute, ending the medieval Taifa's Kingdom of Toledo. This was the first concrete step taken by the combined kingdom of Leon-Castile in the Reconquista by Christian forces. After Castilian conquest, Toledo continued to be a major cultural centre; its Arab libraries were not pillaged, and a tag-team translation centre was established in which books in Arabic or Hebrew would be translated into Castilian by Muslim and Jewish scholars, and from Castilian into Latin by Castilian scholars, thus letting long-lost knowledge spread through Christian Europe again. Toledo served as the capital city of Castile intermittently (Castile did not have a permanent capital) from 1085, and the city flourished. Charles I of Spain's court was set in Toledo, serving as the imperial capital. However, in 1561, in the first years of his son Philip II of Spain reign, the Spanish court was moved to Madrid, thus letting the city's importance dwindle until the late 20th century, when it became the capital of the autonomous community of Castile–La Mancha. Nevertheless, the economic decline of the city helped to preserve its cultural and architectural heritage. Today, because of this rich heritage, Toledo is one of Spain's foremost cities, receiving thousands of visitors yearly. Under the Roman Catholic Archdiocese of Toledo multiple persecutions (633, 653, 693) and stake burnings of Jews (638 CE) occurred; the Kingdom of Toledo followed up on this tradition (1368, 1391, 1449, 1486–1490 CE) including forced conversions and mass murder and the rioting and blood bath against the Jews of Toledo (1212 CE).[107][108]

Background

Traditionally Toledo was a center of multilingual culture and had prior importance as a center of learning and translation, beginning in its era under Muslim rule. Numerous classical works of ancient philosophers and scientists that had been translated into Arabic during the Islamic Golden Age "back east" were well known in al-Andalus (Islamic-era Spain) such as those from the Neoplatonism school, Aristotle, Hippocrates, Galen, Ptolemy, etc., as well as the works of ancient philosophers and scientists from Persia, India, and China:[1] these enabled Arabic-speaking populations at the time (both in the east and in "the west," or North Africa and the Iberian peninsula) to learn about many ancient classical disciplines that were generally inaccessible to the Christian parts of western Europe, and Arabic-speaking scientists in the eastern Muslim lands such as Ibn Sina, al-Kindi, al-Razi, and others, had added significant works to that ancient body of thought.

Toledo School of Translators


The Toledo School of Translators (Spanish: Escuela de Traductores de Toledo) is the group of scholars who worked together in the city of Toledo during the 12th and 13th centuries, to translate many of the philosophical and scientific works from Classical Arabic. The School went through two distinct periods separated by a transitional phase. The first was led by Archbishop Raymond of Toledo in the 12th century, who promoted the translation of philosophical and religious works, mainly from classical Arabic into Latin. Under King Alfonso X of Castile during the 13th century, the translators no longer worked with Latin as the final language, but translated into a revised version of Castilian. This resulted in establishing the foundations of the modern Spanish language.
https://en.wikipedia.org/wiki/Burgos
It has many historic landmarks, of particular importance; the Cathedral of Burgos (declared World Heritage Site by UNESCO in 1984),[4] seat of the Metropolitan Roman Catholic Archdiocese of Burgos, the Las Huelgas Reales Monastery and Miraflores Charterhouse. A large number of churches, palaces and other buildings from the medieval age remain. The city is surrounded by the Fuentes Blancas and the Paseo de la Isla parks.

Castilian nobleman, military leader and diplomat El Cid Campeador is a significant historical figure in the city, as he was born a couple of kilometres north of Burgos and was raised and educated here. The city forms the principal crossroad of northern Spain along the Camino de Santiago, which runs parallel to the River Arlanzón.

Monasterio de las Huelgas
Main article: Las Huelgas
The Monasterio de las Huelgas Reales (Monastery of the Royal Retreats) on the outskirts of the city, was founded in 1180 by king Alfonso VIII, and was begun in a pre-Gothic style, although almost every style has been introduced over many additions. The remarkable cloisters have been described as "unrivalled for beauty both of detail and design, and perhaps unsurpassed by anything in its age and style in any part of Europe" (1911 Encyclopædia Britannica). One cloister has semicircular arches with delicate and varied columns; the other has an ogival style of early Gothic. The interior of the church has enormous columns supporting its magnificent vault; the entrance is modern. This convent historically benefited from extraordinary privileges granted to its abbess by kings and popes.

Miraflores Charterhouse
The Carthusian monastery, Miraflores Charterhouse (Cartuja de Miraflores) is situated about four kilometres from the historic city center. Among the treasures of the Charterhouse are the wooden statue of St. Bruno, the wooden choir stalls in the church and the tombs of King Juan II and of his spouse, Queen Isabella of Portugal, constructed of marble and with their recumbent effigies sculpted in alabaster. Around the top frieze are statues of angels in miniature. The French soldiers in the Spanish War of Independence (1814) mutilated this work, cutting off some of the heads and carrying them away to France. King Juan II's daughters by his first wife, heiresses Princesses Catherine and Eleanor of Asturias, are also buried in the monastery.

AG: The names of Salvatore of Montferrat, and Remigio of Varagine, two cellarer monks, had a history with the Dulcinian heretics. They are styled after the Kathars, Montferrat is Mont Segur. And so on. Umberto Eco really likes to paraphrase all the Christian history of the 1200's [Kathar Wars and Extermination] and then to the 1300's. The Franciscans and Benedictines of course were no friends of the Dominicans, and later the Jesuits. Each one of these monastic orders was only nominally united under the common hierarchy of the HI St. Roman Kat-Holik church. In reality they tried as much as they could to differentiate themselves from each other. The variations of the theme of Christian monastic orders were about as richly textured as the Buddhist orders. Since Judaism had no monastic element, there was much less diversity there. But we can still find a lot of Jewish (especially mystic Chassidim) sects. And in the Islamic world there were also the many different schools of Sufism which were quite different from the Sunni Orthodoxy. I have myself been to more Sufi orders and meetings and dances than I had been to Christian monastic ones. Since the Christian monks are not so well-known for their dances, they didn't interest me as much as the Sufis. I even have practiced some of their Zikr or Dhikr meditations, like the Mevlena Whirling Dervish dance. See also the work of G.I. Gurdjieff in this tradition. He had probably copied some of the Central Asian Sufi methods which he then taught at his Institute near Paris (aka School of Enlightenment).

George Ivanovich Gurdjieff (Russian: Георгий Иванович Гурджиев; 31 March 1866/14 January 1872/28 November 1877 – 29 October 1949[3]) was a mystic, philosopher, spiritual teacher, and composer of Armenian and Greek descent, born in Alexandrapol (now Gyumri), Armenia.[4] Gurdjieff taught that most humans do not possess a unified consciousness and thus live their lives in a state of hypnotic "waking sleep", but that it is possible to awaken to a higher state of consciousness and achieve full human potential. Gurdjieff described a method attempting to do so, calling the discipline "The Work"[5] (connoting "work on oneself") or "the System".[6] According to his principles and instructions,[7] Gurdjieff's method for awakening one's consciousness unites the methods of the fakir, monk and yogi, and thus he referred to it as the "Fourth Way".[8]

Sufism and Gurdjieff
http://henrybayman.com/gurdjieff-and-sufism/
A great deal of information about Sufism has reached the West at various times, some along quite unexpected avenues. George I. Gurdjieff was one of those who acted as a long-unrecognized conveyor of such information, but he was reluctant to reveal his sources.

John G. Bennett devoted most of his life to tracking down the sources of Gurdjieff’s wisdom. By the time he wrote *Gurdjieff: Making a New World* (1973), he had identified these as the Masters of Wisdom of Central Asia, the Khwajagan Order that initiated the Naqshbandi branch of the Sufis. Based on information gleaned from the Sufi Master Hasan Shushud of Istanbul, Bennett wrote his last book, *The Masters of Wisdom* (1977). In this book, published posthumously (he died in 1974), he definitively identified the Sufis as Gurdjieff’s source—or at least, the source of the essential core of Gurdjieff’s multifaceted teachings. To support Bennett’s case would require a separate study in itself, so I shall be content to indicate just one of the dead giveaways which demonstrate Gurdjieff’s debt to Sufism.

Some time around 1915, Gurdjieff identified three “ways to immortality,” these he described as the way of the fakir, the way of the monk, and the way of the yogi. To summarize, the fakir worked on the physical body, the monk chose the path of religious faith and love, and the yogi worked with the mind and knowledge (Gurdjieff must have had the *Raja* and *Jnana* modes of Yoga in mind). All three, Gurdjieff added, required retirement from the world and renunciation of worldly life. This requirement would leave the ordinary person in a hopeless situation in terms of spiritual development, were it not for the fact that a “fourth way” existed. This way, he added, did not require seclusion, but could be practiced under the usual conditions of life, work, and social involvement, without having to go into the hills or the desert. Mysteriously, he described the essence of this way as follows: “what substances he needs for his aims...can be introduced into the organism from without if it is known how to do it.”

What could this cryptic method be? Gurdjieff leaves few clues as to its nature. We are left in the dark, until we learn from Annemarie Schimmel of the Sufic technique of *rabita*, wherein a “tie” or “connection” is established between master and disciple, enabling the transfer—or download—of spiritual power or *baraka* into the disciple’s heart. Establishing “contact” is mentioned as *rabitu* in the Koran (3:200), but almost never interpreted—due to lack of knowledge—in the sense described here.

### The Works of Annemarie Schimmel

AG: I should note that all the works of Annemarie Schimmel were done under the heavy supervision and heavy financing by the Arab Oil states, and of course in Germany no-one has never heard about such a connection. It was more or less a thinly disguised pro-Islamic propaganda. Ever since, most of the German Arabist and Islamic scholars followed the same course. It is easy to understand why. Because if a scholar wants to get some authentic material about Islamic sources, he must go to the Arab states, or he will get nothing. Like the Koran fragments of Sanaa. They are all heavily financed by Arab Oil money.

https://en.wikipedia.org/wiki/Sana%CA%BDa_manuscript
https://en.wikipedia.org/wiki/Birmingham_Quran_manuscript
https://www.islamic-awareness.org/quran/text/mss/soth.html

### Günter Lüling

The very lonesome exception from this overall pattern was Günter Lüling who had consequently been thoroughly exorcised from German Arabist scholarship. His book could not be published anywhere in Germany, and not even in Europe. So his widow managed to get it published in India by Motilal Benarsidass. He had had the audacity to make linguistic comparisons between ancient Christian psalms and some verses in the Koran. And it is also quite well-known that most of the ancient Near East and Arabia had some sort of pseudo-Christian religion. They could have been
Manichaean, Zoroastrians, Nestorians, and anything in between. Of course there were quite a few Jewish tribes on top of that. At least we know about the latter from the Koran itself. Now a speculation like this is forbidden under Penalty of Death in the Arabic orthodox Koran scholarship. One can put it this way: The Djehad of the sword was followed by the Djehad of the word. And this Djehad has only just begun. See also Ernest Gellner: Plough, Sword, and Book: The Structure of Human History, Ernest Gellner. 1988. University of Chicago Press, Chicago, IL. ISBN: 0-226-28701-7. https://academic.oup.com/jsl/article-abstract/24/2/382/1144229?redirectedFrom=PDF
https://www.press.uchicago.edu/ucp/books/book/chicago/P/bo3644789.html
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https://de.wikipedia.org/wiki/G%C3%BCnter_L%C3%BCling
https://books.google.de/books?id=tqFisOXrUQ8C&printsec=frontcover&hl=de#v=onepage&q&f=false
http://de.wikipedia.org/wiki/G%C3%BCnter_L%C3%BCling
http://www.faz.net/aktuell/feuilleton/buecher/rezensionen/2.1715/ueber-christliche-strophen-im-koran-1164079.html
Ich habe auch hier einiges davon in meinem Archiv aufbewahrt.

Dazu ein Zitat aus dem obigen Artikel:
"Wie geht Lüling vor? Er legt die extrem defektive Schreibung des frühen Arabischen seinen Analysen zugrunde. Wie alle semitischen Sprachen gibt das Arabische in seiner Schrift im allgemeinen nur die Konsonanten und die langen Vokale wieder, die kurzen Vokale werden weggelassen. Der Koran wird allerdings, weil hier jeder Buchstabe wegen der Interpretation besonders wichtig ist, mit Hilfszeichen vokalisiert, die jedoch erst später aufkamen. Dasselbe gilt für jene Punktation, die darüber entscheidet, ob ein Buchstabe ein b, ein t, ein th, ein n, ein s, ein sch, ein z oder r, ein f oder q ist. Die heute gebrauchliche arabischere Schrift hat sich von einer nur andeutenden, quasi stenographischen Schreibweise im Laufe von Generationen zu einer mit Hilfe diakritischer Zeichen "vollständigen" Schrift entwickelt, ein Prozeß, wie er auch im Hebräischen unter den Masoreten stattfand. Man kann verstehen, welche Möglichkeiten der Mißverständnisse angesichts solcher Eindeutigkeitsmängel in der Schreibung denkbar sind."

Appendix XV: Where even Angels fear to tread
http://www.oikos.org/angelsfear.htm
I Introduction
II The World of Mental Process (GB)
III Metologue: Why Do You Tell Stories? (MCB)

We acknowledge the generosity of M. C. Bateson for the permission to publish in this site two chapters of Angels Fear by G. Bateson.
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ANGELS FEAR: TOWARDS AN EPISTEMOLOGY OF THE SACRED
Gregory Bateson & Mary Catherine Bateson

Full fathom five thy father lies;
of his bones are coral made;
Those pearls that were his eyes:
Nothing of him that doth fade,
But doth suffer a sea-change
Into something rich and strange.
Seanymphs hourly ring his knell: Ding-dong.
Hark! Now I hear them, Ding-dong, bell.

SHAKESPEARE, The Tempest

Contents
Acknowledgments xi
I Introduction (MCB & GB) 1
I. Setting The Context (Mcb)

In 1978, my father, Gregory Bateson, completed the book titled Mind and Nature: A Necessary Unity (Dutton, 1979). Under the threat of imminent death from cancer, he had called me from Tehran to California so we could work on it together. Almost immediately, as it became clear that the cancer was in extended remission he started work on a new book, to be called Where Angels Fear to Tread, but often referred to by him as Angels Fear. In June 1980 I came out to Esalen, where he was living, having heard that his health was again deteriorating, and be proposed that we collaborate on the new book, this time as coauthors. He died on July 4,
without our having had the opportunity to begin work, and after his death I set the manuscript aside while I followed through on other commitments, including the writing of With a Daughter's Eye (Morrow, 1984), which was already under way. Now at last, working with the stack of manuscript Gregory left at his death -- miscellaneous, unintegrated, and incomplete -- I have tried to make of it the collaboration he intended. It has not seemed to me urgent to rush this work forward. Indeed, I have been concerned on my own part to respect the warning buried in Gregory’s title: not, as a fool, to rush in. The real synthesis of Gregory's work is in Mind and Nature, the first of his books composed to communicate with the nonspecialist reader. Steps to an Ecology of Mind (Chandler, 1972, and Ballantine, 1975) had brought together the best of Gregory's articles and scientific papers, written for a variety of specialist audiences and published in a multiplicity of contexts, and in the process Gregory became fully aware of the potential for integration. The appearance of Steps also demonstrated the existence of an audience eager to approach Gregory's work as a way of thinking, regardless of the historically shifting contexts in which it had first been formulated, and this moved him along to a new synthesis and a new effort of communication.

Where Angels Fear to Tread was to be different. He had become aware gradually that the unity of nature he had affirmed in Mind and Nature might only be comprehensible through the kind of metaphors familiar from religion; that, in fact, he was approaching that integrative dimension of experience he called the sacred. This was a matter he approached with great trepidation, partly because he had been raised in a dogmatically atheistic household and partly because he saw the potential in religion for manipulation, obscurantism, and division. The mere use of the word religion is likely to trigger reflexive misunderstanding. The title of the book therefore expresses, among other things, his hesitation and his sense of addressing new questions, questions that follow from and depend upon his previous work but require a different kind of wisdom, a different kind of courage. I feel the same trepidation. This work is a testament but one that passes on a task not to me only but to all those prepared to wrestle with such questions.

In preparing this book, I have had to consider a number of traditions about how to deal with a manuscript left uncompleted at the time of a death. The most obvious and scholarly alternative was that of scrupulously separating our voices, with a footnote or a bracket every time I made an editorial change and a sic every time I refrained when my judgment suggested that a change was needed. However, since it was Gregory’s own intention that we complete this manuscript together, I decided not to follow the route of the disengaged editor, so I have corrected and made minor alterations in his sections as needed. The original manuscripts will, of course, be preserved, so that if the work proves to merit that kind of attention, someone someday can write a scholarly monograph about the differences between manuscripts and published text that incorporates the work of us both. I will limit my scrupulosity to the preservation of the sources. After some hesitation, I decided not to supplement the materials Gregory had designated for possible use in this book by drawing extensively on his other writings, but I have made omissions and choices, as Gregory would have. Material that partly duplicates previous publications, however, has often been retained for its contribution to the overall argument.

On the other hand, where my additions or disagreements were truly substantive, I have not been prepared simply to slip them in, writing prose that the reader might mistake for Gregory's own. This would be to return to the role of amanuensis, the role I was cast in for Mind and Nature, in which I merged all of my contributions in his, as wives and daughters have done for centuries. The making of this book has itself been a problem of ecology and of epistemology, because Gregory's knowing was embedded in a distinctive pattern of relationship and conversation.

Thus, it seemed important that when I made significant additions, it should be clear that these, right or wrong, were my own. I have chosen to do this partly in the form of inserted sections, set in square brackets, and partly in the form of what Gregory called metalogues. Over a period of nearly forty years, Gregory used a form of dialogue he had developed between "Father" and "Daughter," putting comments and questions into the mouth of a fictionalized "Daughter," asking the perennial question "Daddy, why . . . " to allow himself to articulate his own thinking. Over a period of about twenty years, we actually worked together, sometimes on written texts, sometimes in public dialogue or dialogue within the framework of a larger conference, and sometimes across the massive oak table in the Bateson household, arguing our way towards clarity. The fictional character he had created, who initially incorporated only fragmentary elements of fact in our relationship, grew older, becoming less fictional in two ways: "Daughter" came to resemble me more fully, and at the same time I modeled my own style of interaction with Gregory on hers.

This was a gradual process. Part of the dilemma I faced in deciding how to deal with the materials Gregory left was that he never defined what he was doing in relation to me. He attributed words to a character named "Daughter," words that were sometimes real and sometimes imagined, sometimes plausible and sometimes
quite at odds with anything I might have said. Now I have had to deal with an uncompleted manuscript left by him, using my own experience of the occasions we worked together and my understanding of the issues as guides. The lines given to "Father" in these metalogues are sometimes things Gregory said in other contexts, often stones he told repeatedly. But these did not, as conversations, ever occur as presented here. They are just as real – and just as fictional – as the metalogues Gregory wrote himself. Like Gregory, I have found the form sufficiently useful and flexible not to observe stringently his original requirement that each metalogue exemplify its subject matter in its form, but, unlike his metalogues, the ones in this book were not designed to stand separately. Nevertheless, it seems important to emphasize that the father-daughter relationship continues to be a rather precise vehicle for issues that Gregory wanted to address because it functions as a reminder that the conversation is always moving between intellect and emotion, always dealing with relationship and communication, within and between systems. Above all, the metalogues contain the questions and comments I would have raised had we worked on this manuscript together, as well as my best approximation of what Gregory would have said. I have also allowed myself near the end to emerge from the child role of the metalogues and to write in my own present voice. Each section of the book is labeled "GB" or "MCB," but this should be understood to be very approximate, meaning no more than "primarily GB" or "primarily MCB." The section of Notes on Chapter Sources provides further detail.

At the top of the stack of materials Gregory had accumulated for the book was a draft introduction, one of several, that began with this story:

"In England when I was a boy, every railroad train coming in from a long run was inspected by a man with a hammer. The hammer had a very small head and a very long handle, rather like a drumstick, and it was indeed designed to make a sort of music. The man walked down the whole length of the train, tapping every hotbox as he walked. He was testing to find out if any one was cracked and would therefore emit a discordant sound. The integration, we may say, had to be tested again and again. Similarly, I have tried to tap every sentence in the book to test for faults of integration. It was often easier to hear the discordant note of the false juxtaposition than to say for what harmony I was searching."

I only wish that in drafting an introduction Gregory had been describing something he had actually done rather than something he still aspired to do. Gregory was working in an interval of unknown length while his cancer was in remission. He was living at Esalen, an environment where he had warm friendships but not close intellectual collaborations. Even though the "counterculture" has faded in the 1980s, Gregory's occasional references to it provide a clarifying contrast for the shifting population and preoccupations of Esalen underlined his essential alienation. Always, for Gregory, the problem was to get the ideas and the words right, but his life-style in that last period, without a permanent base or a steady source of income, required that he keep on producing, reiterating, and recombining the various elements of his thought as he sang for his supper, but without doing the tuning or making the integration that they needed. It also meant that Gregory, always sparing in his reading, was more cut off than ever before from ongoing scientific work. He combined great and continuing originality with a store of tools and information acquired twenty years earlier. In effect, his groping poses a challenge to readers to make their own creative synthesis, combining his insights with the tools and information available today, advances in cognitive science, molecular biology, and systems theory that are nonetheless still subject to the kinds of muddle and intellectual vulgarity he warned against.

There is no way that I can make this manuscript into what Gregory wanted it to be, and at some level I doubt that Gregory could have done so or that we could have done it together. Certainly what he wanted was still amorphous at the time of his death, the thinking still incomplete. But although the ideas were not yet in full flower, they were surely implicit in the process of growth.

Surely, too, the richest legacy lies in his questions and in his way of formulating questions.

In the autumn after the completion of Mind and Nature, living at Esalen, Gregory wrote several poems, one of which seems to me to express what he felt he had attempted in the work just completed, and perhaps an aspiration for the work that lay ahead.

**The Manuscript**

So there it is in words
Precise
And if you read between the lines
You will find nothing there
For that is the discipline I ask
Not more, not less

147
Not the world as it is
Nor ought to be –
Only the precision
The skeleton of truth
I do not dabble in emotion
Hint at implications
Evoke the ghosts of old forgotten creeds
All that is for the preacher
The hypnotist, therapist and missionary
They will come after me
And use the little that I said
To bait more traps
For those who cannot bear
The lonely
Skeleton
of Truth

Because Gregory's manuscript did not yet correspond to this aspiration, I could not read it as the poem
commands. It has not been possible for me to avoid reading between the lines -- indeed, that has often been the
only way I could proceed. Often, too, working within the context of a metalogue, I have deliberately admitted
emotion and evocation. His ambition was to
achieve formalism but as he grooped and ruminated, he often relied on less rigorous forms of discourse.
The poem is important here, however, not only for what it asserts about method and style, but because it
proposes a context for interpretation. In this poem, Gregory was expressing real caution and irritation. A great
many people, recognizing that Gregory was critical of certain kinds of materialism, wished him to be a
spokesman for an opposite faction, a faction advocating the kind of attention they found comfortable to things
excluded by atomistic materialism: God, spirits, ESP, "the ghosts of old forgotten creeds." Gregory was
always in the difficult position of saying to his scientific colleagues that they were failing to attend to critically
important matters, because of methodological and epistemological premises central to Western science for
centuries, and then turning around and saying to his most devoted followers, when they believed they were
speaking about these same critically important matters, that the way they were talking was nonsense.
In Gregory's view, neither group was able to talk sense, for nothing sensible could be said about these matters,
given the version of the Cartesian separation of mind and matter that has become habitual in Western thought.
Again and again he returns to his rejection of this dualism: mind without matter cannot exist; matter without
mind can exist but is inaccessible. Transcendent deity is an impossibility. Gregory wanted to continue to speak
to both sides of our endemic dualism, wanted indeed to invite them to adopt a monism, a unified view of the
world that would allow for both scientific precision and systematic attention to notions that scientists often
exclude.
As Gregory affirmed in his poem, he had a sense of his thinking as skeletal. This is a double claim: on the one
hand, it is a claim of formalism and rigor; on the other hand, it is a claim to deal with fundamentals, with what
underlies the proliferation of detail in natural phenomena. However, it was not dry bones that he aspired to
outline but the functioning framework of life, life that in the widest sense includes the entire living planet
throughout its evolution.
In attempting to rethink these issues, Gregory had arrived at a strategy of redefinition, a strategy of taking
words like "Love" or "wisdom," "mind" or "the sacred" -- the words for matters that the nonmaterialists feel
are important and that scientists often regard as inaccessible to study -- and redefining them by invoking the
conceptual tools of cybernetics. In his writing, technical terms occur side by side with the words of ordinary
language, but these less daunting words are often redefined in unfamiliar ways. (A glossary has been provided
at the end of the book.)
Inevitably, this attracted several kinds of criticism: criticism from those most committed to the orthodoxy of
the meaninglessness of these terms, asserting that they are impermissible in scientific discourse; criticism from
those committed to other kinds of religious and philosophical orthodoxy, arguing that these terms already have
good, established meanings which Gregory failed to understand and respect; and, finally, the criticism that to
use a term in an idiosyncratic way or to give it an idiosyncratic definition is a form of rhetorical dishonesty --
one for which Alice taxed Humpty Dumpty.
In fact, Gregory was endeavoring to do with words like "mind" or "love" what the physicists did with words like force, energy, or mass, even though the juxtaposition of a rigorous definition with fuzzy popular usage can be a continual source of problems. It is a pedagogue's trick, counting on the redefined term to be at once memorabile and grounded, to be relevant both to general discourse and matters of value. But what is most important to Gregory is that his understanding of such words as "mind" should be framed in precision, able to coexist with mathematical formalism.

The central theme of Mind and Nature was that evolution is a mental process. This was shorthand for the assertion that evolution is systemic and that the process of evolution shares key characteristics with other systemic processes, including thought. The aggregate of these characteristics provided Gregory with his own definition for the words "mental" and "mind," words that had become virtually taboo in scientific discourse. This allowed him to emphasize what interested him most about thought and evolution, that they are in an important sense analogous: they share a "pattern which connects," so that a concentration on their similarities will lead to significant new insight with regard to each, particularly the way in which each allows for something like anticipation or purpose. The choice of such a word as "mind" is deliberately evocative, reminding the reader of the range of issues proposed by these words in the past and suggesting that these are properly matters for passion.

Similarly, Gregory has found a place to stand and speak of "God," somewhere between those who find the word unusable and those who use it all too often to argue positions that Gregory regarded as untenable. Playfully, he proposed a new name for the deity, but in full seriousness he searched for an understanding of the related but more general term "the sacred," moving gingerly and cautiously onto holy ground, "where angels fear to tread." Given what we know about the biological world (that knowledge that Gregory called "ecology," with considerable cybernetic revision of the usage of this term by members of the contemporary biological profession), and given what we are able to understand about "knowing" (what Gregory called "epistemology," again within a cybernetic framework), he was attempting to clarify what one might mean by "the sacred." Might the concept of the sacred refer to matters intrinsic to description, and thus be recognized as part of "necessity"? And if a viable clarity could be achieved, would it allow important new insight? It seems possible that a mode of knowing that attributes a certain sacredness to the organization of the biological world might be, in some significant sense, more accurate and more appropriate to decision making.

Gregory was quite clear that the matters discussed in Mind and Nature, the various ways of looking at the biological world and at thought, were necessary preliminaries to the challenge of this present volume, although they are not fully argued here. In this book he approached a set of questions that were implicit in his work over a very long period, again and again pushed back: not only the question of "the sacred," but also the question of "the aesthetic," and the question of "consciousness."

This was a constellation of issues which, for Gregory, needed to be addressed in order to arrive at a theory of action in the living world, a cybernetic ethics, and it is this that I have listened for above all in his drafts. Imagining himself at the moment of completion, Gregory wrote, "It was still necessary to study the resulting sequences and to state in words the nature of their music." This is necessary still, and can in some measure be attempted, for the implicit waits to be discovered, like a still-unstated theorem in geometry, hidden within the axioms. Between the lines? Perhaps. For Gregory did not have time to make sure that the words were complete.

II. DEFINING THE TASK (GB)

The actual writing of this book has been a research, an exploration step by step into a subject matter whose overall shape became visible only gradually as coherence emerged and discord was eliminated. It is easier to say what the book is not about than to define the harmony for which I was searching. It is not about psychology or economics or sociology, except insofar as these are chiasmoscuro within some larger body of knowledge. It is not exactly about ecology or anthropology. There is the still wider subject called epistemology, which transcends all the others, and it seems that the glimpses of an order higher than that of any of these disciplines have come when I have touched on the fact of anthropological and ecological order. The book, then, is a comparative study of matters that arise from anthropology and local epistemology. As anthropologists we study the ethics of every people and go on from there to study comparative ethics. We try to see the particular and local ethics of each tribe against a background of our knowledge of ethics in other systems. Similarly it is possible, and begins to be fashionable, to study the epistemology of every people, the structures of knowing and the pathways of computation. From this kind of study it is natural to go on to compare the epistemology implicit in one cultural system with that in other systems.
But what is disclosed when comparative ethics and comparative epistemology are set side by side? And when both are combined with economics? And when all is compared with morphogenesis and comparative anatomy? Such comparison will inevitably drive the investigator back to the elemental details of what is happening. He must make up his mind about the universal minima of the overlapping of all these fields of study. The minima are not parts of any one field; they are not parts even of behavioral science at all. They are parts, if you will, of necessity. Some are what Saint Augustine called Eternal Verities, others are perhaps what Jung called archetypes. These fundamentals, which must underlie all of our thought, are the subject matter of the next section.

Of course, the anthropologist and the epistemologist, the psychologist and the students of history and economics will all have to deal, each in his or her field of concentration, with every one of these Eternal Verities. But the verities are not the subject matter of any special field and are, indeed, commonly concealed and avoided by the concentration of attention upon the problems proper to each specialized field. Many before me, aware of these higher levels of order and organization and sense, including Saint Augustine himself, have attempted to share their discoveries with those who came after. There is a vast literature of such sharing. In particular, every one of the great religions has contributed texts to the unraveling of these matters - or sometimes to their further obfuscation.

Again, many of the contributions of the past have been made within the historically unique context of science, and yet today the intellectual preoccupation with quantity, the artificiality of experiment, and the dualism of Descartes combine to make these matters even more difficult of access than they have been heretofore. Science, for good reason, is impatient of muddled definitions and foggy confusions of logical typing, but in attempting to avoid these dangers, it has precluded discussion of matters of first -- indeed of primary -- importance.

It is, alas, too true, however, that muddleheadedness has helped the human race to find "God." Today, in any Christian, Buddhist, or Hindu sermon, you are likely to hear the mystic's faith extolled and recommended for reasons that should raise the hackles of any person undrugged and unhypnotized. No doubt the discussion of high orders of regularity in articulate language is difficult, especially for those who are untrained in verbal precision, so they may be forgiven if they take refuge in the cliché "Those who talk don't know, and those who know don't talk." If the cliché were true, it would follow that all the vast and often beautiful mystical literature of Hinduism, Buddhism, Taoism, and Christianity must have been written by persons who did not know what they were writing about.

Be that as it may, I claim no originality, only a certain timeliness. It cannot now be wrong to contribute to this vast literature. I claim not uniqueness but membership in a small minority who believe that there are strong and clear arguments for the necessity of the sacred, and that these arguments have their base in an epistemology rooted in improved science and in the obvious. I believe that these arguments are important at the present time of widespread skepticism -- even that they are today as important as the testimony of those whose religious faith is based on inner light and "cosmic" experience. Indeed, the steadfast faith of an Einstein or a Whitehead is worth a thousand sanctimonious utterances from traditional pulpits.

In the Middle Ages, it was characteristic of theologians to attempt a rigor and precision that today characterize only the best science. The Summa theologica of Saint Thomas Aquinas was the thirteenth-century equivalent of today's textbooks of cybernetics. Saint Thomas divided all created things into four classes: (a) those which just are -- as stones; (b) those which are and live -- as plants; (c) those which are and live and move -- as animals; and (d) those which are and live and move and think -- as men. He knew no cybernetics and (unlike Augustine) he was no mathematician, but we can immediately recognize here a prefacing of some classification of entities based upon the number of logical types represented in their self-corrective and recursive loops of adaptation.

Saint Thomas's definition of Deadly Sin is marked with the same latent sophistication. A sin is recognized as "deadly" if its commission promotes further committing of the same sin by others, "in the manner of a final cause." (I note that, according to this definition, participation in an armaments race is among the sins that are deadly.) In fact, the mysterious "final causes" of Aristotle, as interpreted by Saint Thomas, fit right in with what modern cybernetics calls positive feedback, providing a first approach to the problems of purpose and causality [especially when causality appears not to flow with the flow of time].

One wonders whether later theology was not in many ways less sophisticated than that of the thirteenth century. It is as if the thought of Descartes (1596-1650), especially the dualism of mind and matter, the cogito, and the Cartesian coordinates, were the climax of a long decadence. The Greek belief in final causes was crude and primitive, but it seemingly left the way open for a monistic view of the world, a way that later ages closed

150
and finally buried by the dualistic separation of mind and matter, [which set many important and mysterious phenomena outside of the material sphere that could be studied by science, leaving mind separate from body and God outside of the creation and both ignored by scientific thinking].

For me, the Cartesian dualism was a formidable barrier, and it may amuse the reader to be told how I achieved a sort of monism -- the conviction that mind and nature form a necessary unity, in which there is no mind separate from body and no god separate from his creation and how, following that, I learned to look with new eyes at the integrated world. That was not how I was taught to see the world when I began work. The rules then were perfectly clear: in scientific explanation, there should be no use of mind or deity, and there should be no appeal to final causes. All causality should flow with the flow of time, with no effect of the future upon the present or the past. No deity, no teleology, and no mind should be postulated in the universe that was to be explained.

This very simple and rigorous creed was a standard for biology that had dominated the biological scene for 150 years. This particular brand of materialism had become fanatical following the publication of William Paley's Evidences of Christianity (in 1794, fifteen years before Lamarck's Philosophie zoologique and sixty-five years before On the Origin of Species). To mention "mind" or "teleology" or the "inheritance of acquired characters" was heresy in biological circles in the first forty years of the present century. And I am glad I learned that lesson well.

So well that I even wrote an anthropological book, Naven, within the orthodox antiteleological frame, but, of course, the rigorous limitation of the premises had the effect of displaying their inadequacy. It was clear that upon those premises the culture could never be stable but would go into escalating change to its own destruction. That escalation I called schismogenesis and I distinguished two principal forms it might take, but I could not in 1936 see any real reason why the culture had survived so long, [or how it could include self-corrective mechanisms that anticipated the danger]. Like the early Marxists, I thought that escalating change must always lead to climax and destruction of the status quo.

I was ready then for cybernetics when this epistemology was proposed by Norbert Wiener, Warren McCulloch, and others at the famous Macy Conferences. Because I already had the idea of positive feedback (which I was calling schismogenesis), the ideas of self-regulation and negative feedback fell for me immediately into place. I was off and running with paradoxes of purpose and final cause more than half-resolved, and aware that their resolution would require a step beyond the premises within which I had been trained.

In addition, I went to the Cybernetics Conferences with another notion which I had developed during World War II and which turned out to fit with a central idea in the structure of cybernetics. This was the recognition of what I called deutero-leaning, or learning to learn.3

I had come to understand that "learning to learn" and "learning to deal with and expect a given kind of context for adaptive action" and "character change due to experience" are three synonyms for a single genus of phenomena, which I grouped together under the term deutero-learning. This was a first mapping of behavioral phenomena onto a scheme closely related to Bertrand Russell's hierarchy of logical types and, like the idea of schismogenesis, was easily attuned to the cybernetic ideas of the 1940s. [The Principia of Russell and Whitehead provided a systematic way of handling logical hierarchies such as the relationship between an item, the class of items to which it belongs, and the class of classes. The application of these ideas to behavior laid the groundwork for thinking about how, in learning, experience is generalized to some class of contexts, and about the way in which some messages modify the meaning of others by labeling them as belonging to particular classes of messages.]

The significance of all this formalization was made more evident in the 1960s by a reading of Carl Jung's Seven Sermons to the Dead, of which the Jungian therapist Jane Wheelwright gave me a copy.5 I was at the time writing a draft of what was to be my Korzybski Memorial Lecture and began to think about the relation between "map" and "territory." Jung's book insisted upon the contrast between Pleroma, the crudely physical domain governed only by forces and impacts, and Creatura, the domain governed by distinctions and differences. It became abundantly clear that the two sets of concepts match and that there could be no maps in Pleroma, but only in Creatura. Which gets from territory to map is news of difference, and at that point I recognized that news of difference was a synonym for information.

When this recognition of difference was put together with the clear understanding that Creatura was organized into circular trains of causation, like those that had been described by cybernetics, and that it was organized in multiple levels of logical typing, I had a series of ideas all working together to enable me to think systematically about mental process as differentiated from simple physical or mechanistic sequences, without
thinking in terms of two separate "substances." My book Mind and Nature: A Necessary Unity combined these ideas with the recognition that mental process and biological evolution are necessarily alike in these Creatural characteristics.

The mysteries that had challenged biology up to the epoch of cybernetics were, in principle, no longer mysterious, though, of course, much remained to be done. We now had ideas about the general nature of information, purpose, stochastic process, thought, and evolution, so that at that level it was a matter of working out the details of particular cases.

In place of the old mysteries, a new set of challenges emerged. This book is an attempt to outline some of these, [in particular, to explore the way in which, in a nondualistic view of the world, a new concept of the sacred emerges]. It is intended to begin the task of making the new challenges perceptible to the reader and perhaps to give some definition to the new problems. Further than that I do not expect to go. It took the world 2,500 years to resolve the problems that Aristotle proposed and Descartes compounded. The new problems do not appear to be easier to solve than the old, and it seems likely that my fellow scientists will have their work cut out for them for many years to come.

The title of the present book is intended to convey a warning. It seems that every important scientific advance provides tools which look to be just what the applied scientists and engineers had hoped for, and usually these gentry jump in without more ado. Their well-intentioned (but slightly greedy and slightly anxious) efforts usually do as much harm as good, serving at best to make conspicuous the next layer of problems, which must be understood before the applied scientists can be trusted not to do gross damage. Behind every scientific advance there is always a matrix, a mother lode of unknowns out of which the new partial answers have been chiseled. But the hungry, overpopulated, sick, ambitious, and competitive world will not wait, we are told, till more is known, but must rush in where angels fear to tread.

I have very little sympathy for these arguments from the world's "need." I notice that those who pander to its needs are often well paid. I distrust the applied scientists' claim that what they do is useful and necessary. I suspect that their impatient enthusiasm for action, their rarin'-to-go, is not just a symptom of impatience, nor is it pure buccaneering ambition. I suspect that it covers deep epistemological panic.

1 Square brackets indicate an insert by MCB. [Back to text]
3 See C. Bateson, "Social Planning and the Concept of Deutero-Learning," Steps, 159-76 (Chandler ed.), and elsewhere. [Back to text]
5 Carl Gustav Jung's Septem Sermones ad Mortuos was privately published in 1916. There has been a more recent British edition (Stuart and Watkins, 1967), but the work is most accessible as a supplement to some editions of Memories, Dreams, Reflections, ed. Aniela Jaffe (New York: Pantheon, 1966 and later editions only). [Back to text]
6 See my essay "Form, Substance and Difference," in Steps, 454-71 (Chandler ed.). [Back to text]

II The World of Mental Process (GB)

BEFORE we proceed further, I want to elaborate on the contrast made by Carl Gustav Jung 1 between Creatura and Pleroma. This will give us an alternative starting point for epistemology, one that will be a much healthier first step than the separation of mind from matter attributed to René Descartes. In place of the old Cartesian dualism, which proposed mind and matter as distinct substances, I want to talk about the nature of mental process, or thought, in the widest sense of that word, and the relationship between "thought" and the material world.
I am going to include within the category mental process a number of phenomena which most people do not think of as processes of thought. For example, I shall include the processes by which you and I achieve our anatomy – the injunctions, false starts and self-corrections, obedience to circumstance, and so on, by which the differentiation and development of the embryo is achieved. "Embryology" is for me a mental process. And I shall also include the still more mysterious processes by which it comes about that the formal relations of our anatomy are recognizable in the anthropoid ape, the horse, and the whale – what zoologists call homology – i.e. along with embryology I shall include evolution within the term "mental process."

Along with those two big ones – biological evolution and embryology – I include all those lesser exchanges of information and injunction that occur inside organisms and between organisms and that, in the aggregate, we call life.

In fact, wherever information – or comparison – is of the essence of our explanation, there, for me, is mental process. Information can be defined as a difference that makes a difference. A sensory end organ is a comparator, a device which responds to difference. Of course, the sensory end organ is material, but it is this responsiveness to difference that we shall use to distinguish its functioning as "mental." Similarly, the ink on this page is material, but the ink is not my thought. Even at the most elementary level, the ink is not signal or message. The difference between paper and ink is the signal.

It is, of course, true that our explanations, our textbooks dealing with nonliving matter, are full of information. But this information is all ours; it is part of our life processes. The world of nonliving matter, the Pleroma, which is described by the laws of physics and chemistry, itself contains no description. A stone does not respond to information and does not use injunctions or information or trial and error in its internal organization. To respond in a behavioral sense, the stone would have to use energy contained within itself, as organisms do. It would cease to be a stone. The stone is affected by "forces" and "impacts," but not by differences.

I can describe the stone, but it can describe nothing. I can use the stone as a signal – perhaps as a landmark. But it is not the landmark.

It uses and contains no information.

"It" is not even an it, except insofar as I distinguish it from the remainder of inanimate matter.

What happens to the stone and what it does when nobody is around is not part of the mental process of any living thing. For that it must somehow make and receive news.

You must understand that while Pleroma is without thought or information, it still contains – is the matrix of – many other sorts of regularities. Inertia, cause and effect, connection and disconnection, and so on, these regularities are (for lack of a better word) immanent in Pleroma. Although they can be translated (again for lack of a better word) into the language of Creatura (where alone language can exist), the material world still remains inaccessible, the Kantian Ding an sich which you cannot get close to. We can speculate – and we have speculated very carefully and very creatively about it – but in the end, at the last analysis, everything we say about Pleroma is a matter of speculation, and such mystics as William Blake, for example, frankly deny its existence.

In summary then, we will use Jung's term Pleroma as a name for that unliving world described by physics which in itself contains and makes no distinctions, though we must, of course, make distinctions in our description of it.

In contrast, we will use Creatura for that world of explanation in which the very phenomena to be described are among themselves governed and determined by difference, distinction, and information.

[Although there is an apparent dualism in this dichotomy between Creatura and Pleroma, it is important to be clear that these two are not in any way separate or separable, except as levels of description. On the one hand, all of Creatura exists within and through Pleroma; the use of the term Creatura affirms the presence of certain organizational and communicational characteristics which are themselves not material. On the other hand, knowledge of Pleroma exists only in Creatura. We can meet the two only in combination, never separately. The laws of physics and chemistry are by no means irrelevant to the Creatura – they continue to apply – but they are not sufficient for explanation. Thus, Creatura and Pleroma are not, like Descartes' "mind" and "matter," separate substances, for mental processes require arrangements of matter in which to occur, areas where Pleroma is characterized by organization which permits it to be affected by information as well as by physical events.]
We can move on from the notion of mental process to ask, what, then, is "a mind"? And if this is a useful notion, can one usefully make a plural and speak of "minds" which might engage in interactions which are in turn mental? The characterization of the notion of "a mind" was one of the central thrusts of Mind and Nature, where a series of criteria were laid out for the identification of "minds." The definition anchors the notion of a mind firmly to the arrangement of material parts:

1. A mind is an aggregate of interacting parts or components.
2. The interaction between parts of mind is triggered by difference.
3. Mental process requires collateral energy.
4. Mental process requires circular (or more complex) chains of determination.
5. In mental process, the effects of difference are to be regarded as transforms (i.e. coded versions) of events which preceded them.
6. The description and classification of these processes of transformation disclose a hierarchy of logical types immanent in the phenomena.

If you consider these criteria, you will recognize that they fit a number of complex entities that we are used to talking about and investigating scientifically, such as animals and persons and, in fact, all organisms. They also apply to parts of organisms that have a degree of autonomy in their self-regulation and functioning: individual cells, for instance, and organs. Then, you can go on to notice that there is no requirement of a clear boundary, like a surrounding envelope of skin or membrane, and you can recognize that this definition includes only some of the characteristics of what we call "life." As a result, it applies to a much wider range of those complex phenomena called "systems," including systems consisting of multiple organisms or systems in which some of the parts are living and some are not, or even to systems in which there are no living parts. What is described here is something that can receive information and can, through the self-regulation or self-correction made possible by circular trains of causation, maintain the truth of certain propositions about itself. These two provide the rudiments of identity – unlike the stone, the mind we are describing is an "it." There is, however, no reason to assume that it will be either conscious or capable of self-replication, like some of the minds we count among our friends and relatives. A given mind is likely to be a component or subsystem in some larger and more complex mind, as an individual cell may be a component in an organism or a person may be a component in a community. The world of mental process opens into a self-organizing world of Chinese boxes in which information generates further information.

This book is above all concerned with certain characteristics of the interface between Pleroma and Creatura and also with interfaces between different kinds of mental subsystems, including relations between persons and between human communities and ecosystems. We will be especially concerned with the way in which our understanding of such interfaces underlies epistemology and religion, bearing in mind that because what is is identical for all human purposes with what can be known, there can be no clear line between epistemology and ontology.

When we distinguish Creatura from Pleroma by some first, primary act of distinguishing, we are founding the science of Epistemology, rules of thought. And our Epistemology is a good epistemology insofar as the regularities of Pleroma can be correctly, appropriately translated in our thought, and insofar as our understanding of Creatura, namely of all of embryology, biological evolution, ecology, thought, love and hate, and human organization – all of which require rather different kinds of description than those we use in describing the inanimate material world can grow and sit on top of (can be comfortably deductive from) that primary step in Epistemology.

I think that Descartes' first epistemological steps – the separation of "mind" from "matter" and the cogito – established bad premises, perhaps ultimately lethal premises, for Epistemology, and I believe that Jung's statement of connection between Pleroma and Creatura is a much healthier first step. Jung's epistemology starts from comparison of difference – not from matter.

So I will define Epistemology as the science that studies the process of knowing – the interaction of the capacity to respond to differences, on the one hand, with the material world in which those differences somehow originate, on the other. We are concerned then with an interface between Pleroma and Creatura.

There is a more conventional definition of epistemology, which simply says that epistemology is the philosophic study of how knowledge is possible. I prefer my definition – how knowing is done – because it frames Creatura within the larger total, the presumably lifeless realm of Pleroma; and because my definition bluntly identifies Epistemology as the study of phenomena at an interface and as a branch of natural history.

Let me begin this study by mentioning a basic characteristic of the interface between Pleroma and Creatura, which will perhaps help to define the direction of my thinking. I mean the universal circumstance that the
interface between Pleroma and Creatura is an example of the contrast between "map" and "territory" – is, I suppose, the primary and most fundamental example. This is the old contrast to which Alfred Korzybski long ago called attention, and it remains basic for all healthy epistemologies and basic to Epistemology. Every human individual – every organism – has his or her personal habits of how he or she builds knowledge, and every cultural, religious, or scientific system promotes particular epistemological habits. These individual or local systems are indicated here with a small e. Warren McCulloch used to say that the man who claimed to have direct knowledge – i.e. no epistemology – had a bad one.

It is the task of anthropologists to achieve comparisons between the many and diverse systems and perhaps to evaluate the price that muddled systems pay for their errors. Most local epistemologies – personal and cultural – continually err, alas, in confusing map with territory and in assuming that the rules for drawing maps are immanent in the nature of that which is being represented in the map. All of the following rules of accurate thought and communication apply to the properties of maps, that is, to mental process, for in the Pleroma there are no maps, no names, no classes, and no members of classes.

The map is not the territory
The name is not the thing named.
The name of the name is not the name.

(You remember the White Knight and Alice? Alice is rather tired of listening to songs and, offered yet another, she asks its name. "The name of the song is called 'Haddocks' Eyes,'" says the White Knight. "That's the name of the song, is it?" says Alice. "No, you don't understand," says the White Knight, "that's not the name of the song, that's what the name is called."4)

The item in the class is not the class (even when the class has only one item).
The class is not a member of itself.

Some classes have no members. (If, for example, I say, "I never read the small print," there is no class of events consisting of my reading the small print.) In the Creatura, all is names, maps, and names of relations – but still the name of the name is not the name, and the name of the relation is not the relation – even when the relation between A and B is of the kind we denote by saying that A is the name of B.

These constraints are Eternal. They are necessarily true, and to recognize them gives something resembling freedom – or shall we say that it is a necessary condition of skill. It will be interesting to compare them with other basic components of Epistemology such as Saint Augustine's Eternal Verities or Jung's archetypes, and see where these fall in relation to the interface.

Now, Saint Augustine was not only a theologian, he was also a mathematician. He lived in Hippo in North Africa and was probably more Semite than Indo-European, which means in the present context that he may very well have been quite at home in algebraic thought. It was, I gather, the Arabs who introduced the concept "any" into mathematics, thus creating algebra, for which we still use an Arabic word.

These verities were rather simple propositions, and here I quote Warren McCulloch,5 to whom I owe much: "Listen to the thunder of that saint, in almost A.D. 500: 'Seven and three are ten; seven and three have always been ten; seven and three at no time and in no way have ever been anything but ten; seven and three will always be ten. I say that these indestructible truths of arithmetic are common to all who reason.' "

Saint Augustine's Eternal Verities were crudely or bluntly stated, but I think the saint would go along with the more modern versions: e.g. that the equation

\[ x + y = z \]

is soluble, and uniquely soluble -- there is only one solution -- for all values of x and y, provided that we agree on the steps and tricks which we must use. If "quantities" are appropriately defined and if "addition" is appropriately defined, then \( x + y = z \) is uniquely soluble. And \( z \) will be of one substance with \( x \) and \( y \).

But, oh my, what a long step it is from the blunt statement "Seven plus three equals ten" to our cautious generalization hedged with definitions and conditions. We have in a certain sense pulled the whole of arithmetic over the line that was to divide Creatura from Pleroma. That is, the statement no longer has the flavor of naked truth and instead is clearly an artifact of human thought, indeed of the thought of particular humans at particular times and places.

Is it then so, that Saint Augustine's Eternal Verities are only spin-offs from peculiar ideas or customs cherished at various times by various human cultural systems?

I am an anthropologist by trade and training, and ideas of cultural relativity are a part of anthropological orthodoxy . . . but how far can cultural relativity go? What can the cultural relativist say about the Eternal
Verities? Does not arithmetic have roots in the unchanging, solid rock of Pleroma? And how can we talk about such a question?

Is there then such a subject of inquiry as Epistemology, with a capital E? Or is it all a matter of local and even personal epistemologies, any one of which is as good, as right, as any other?

These are the kinds of questions that arise when we try to survey the interface between Pleroma and Creatura, and it is clear that arithmetic somehow lies very close to that line.

But do not dismiss such questions as "abstract" or "intellectual," and therefore meaningless. For these abstract questions will lead us to some very immediately human matters. What sort of question are we asking when we say, "What is heresy?" or "What is a sacrament?" These are deeply human questions – matters of life and death, sanity and insanity, to millions of people – and the answers (if any) are concealed in the paradoxes generated by the line between Creatura and Pleroma . . . the line which the Gnostics, Jung, and I would substitute for the Cartesian separation of mind from matter . . . the line that is really a bridge or pathway for messages.

Is it possible to be Epistemologically wrong? Wrong at the very root of thought? Christians, Moslems, Marxists (and many biologists) say yes – they call such error "heresy" and equate it with spiritual death. The other religions – Hinduism, Buddhism, the more frankly pluralistic religions – seem to be largely unaware of the problem. The possibility of Epistemological error does not enter their epistemology. And today in America it is almost heresy to believe that the roots of thought have any importance, and it is undemocratic to excommunicate a man for Epistemological errors. If religions are concerned with Epistemology, how shall we interpret the fact that some have the concept of "heresy" and some do not?

I believe that the story goes back to the most sophisticated religion that the world has known – that of the Pythagoreans. Like Saint Augustine, they knew that Truth has some of its roots (not all) in numerology, in numbers. The history is obscure, probably because it is difficult for us to see the world through Pythagorean eyes, but it seems to be something like this: Egyptian mathematics was pure arithmetic and always particular, never making the jump from "seven and three are ten" to "x plus y equals z." Their mathematics contained no deductions and no proofs as we would understand the term. The Greeks had proofs from about the fifth century B.C., but it seems that mere deduction is a toy until the discovery of proof of an impossibility by reductio ad absurdum. The Pythagoreans had a whole string of theorems (which are not taught in schools today) about the relations between odd and even numbers. The climax of this study was the proof that the isosceles right triangle, with sides of unit length, is insoluble – that Ö2 cannot be either an odd or an even number, and therefore cannot be a number or be expressed as a ratio between two numbers.6

This discovery hit the Pythagoreans squarely between the eyes and became a central secret (but why secret?), an esoteric tenet of their faith. Their religion had been founded on the discontinuity of the series of musical harmonies – the demonstration that that discontinuity was indeed real and was firmly founded upon rigorous deduction.

And now they faced an impossibility proof. Deduction had said no.

As I read the story, from then on it was inevitable to "believe," to "see" and "know" that a contradiction among the higher generalizations will always lead to mental chaos. From this point on, the idea of heresy, the notion that to be wrong in Epistemology could be lethal, was inevitable.

All this sweat and tears – and even blood – was to be shed on quite abstract propositions whose Truth seemed to lie, in some sense, outside the human mind.

As I see it, the propositions that Augustine and Pythagoras were interested in and which Augustine called Eternal Verities are, in a sense, latent in Pleroma – only waiting to be labeled by some scientist. If, for example, a man is pouring lentils or grains of sand from one container into another, he is not aware of any numbering of the units, but still within the crowd of lentils or grains it is true – or would be true if somebody got in there and did some counting (perhaps the ghost of Bishop Berkeley might be willing to do it for us, just to make sure that the truth is still the same when we are not there) – that seven plus three equals ten among the lentils.

In this sense there is a whole slew of regularities out there in Pleroma, unnamed, ready to be picked up. But the distinctions and differences that would be used in an analysis have not been drawn, in the absence of organisms to whom the differences can make a difference. (Bishop Berkeley always forgot the grass and the squirrels in the woods, for whom the falling tree made a meaningful sound!)

I want to make very clear the contrast between Pleromatic regularities and those regularities that exist inside mental and organized systems the necessary limitations and patterns of mental process such as those of coding and logical typing.
McCulloch's famous double question: "What is a number that a man may know it: and what is a man that he may know a number?" takes on a very different coloring, presents new difficulties, when we substitute some archetype for the utterly impersonal concept "number." The Jungian archetypes have a certain claim to transcend the purely local, but they belong squarely in the realm of Creatura.

What is a father that a man, a woman, or a child may know him; and what is a man, or woman, or child, that he or she may know a father?

Let me offer you an example, what in field anthropology we would call a native text -- a crucial cultural utterance:

Our Father which art in heaven,
Hallowed be thy name.

The epistemology latent in that text is enough to keep us busy for a long while.

The words themselves are sanctified -- hallowed, to use their own idiom-by the gospel narrative (Matt. 6:9), according to which Jesus recommended this prayer to his disciples for myriad repetition. In every Christian ceremony, these words are in a strange way the rock upon which the whole structure stands -- the words are the familiar theme to which the ritual continually returns, not as to a logical premise but rather as music returns to a theme or phrase from which it is built.

For while the quasi-Pleromatic verities of Augustine and Pythagoras have roots in logic or mathematics, we are now looking at something different.

"Our Father ..."

This is the language of metaphor, and a very strange language it is.

First we need some contrasting data to show that we are in the realm of epistemology with a small e. (If you would seek for an absolute Epistemology among the metaphors, you must go one or perhaps two stones higher -- straight on and up the stairs...) In Bali, when a shaman, or balian, goes into a state of altered consciousness, he or she speaks with the voice of a god, using the pronouns appropriate to the god, and so on. And when this voice addresses ordinary adult mortals, it will call them "Papa" or "Mama." For the Balinese think of the relationship between gods and people as between children and parents, and in this relationship it is the gods who are the children and the people who are the parents.

The Balinese do not expect their gods to be responsible. They do not feel cheated when the gods are capricious. Indeed, they enjoy minor caprice and charm as these are exhibited by gods temporarily incarnate in shamans. How unlike our dear Job!

This particular metaphor, then, between fatherhood and godhead, is by no means eternal or universal. In other words, the "logic" of metaphor is something very different from the logic of the verities of Augustine and Pythagoras. Not, you understand, "wrong," but totally different. [It may be, however, that while particular metaphors are local, the process of making metaphor has some wider significance -- may indeed be a basic characteristic of Creatura.]

Let me point up the contrast between the truths of metaphor and the truths that the mathematicians pursue by a rather violent and inappropriate trick. Let me spell out metaphor into syllogistic form: Classical logic named several varieties of syllogism, of which the best known is the "syllogism in Barbara." It goes like this:

Men die;
Socrates is a man;
Socrates will die.

The basic structure of this little monster -- its skeleton -- is built upon classification. The predicate ("will die") is attached to Socrates by identifying him as a member of a class whose members share that predicate. The syllogisms of metaphor are quite different, and go like this:

Grass dies;
Men die;
Men are grass.

[In order to talk about this kind of syllogism and compare it to the "syllogism in Barbara," we can nickname it the "syllogism in grass." I understand that teachers of classical logic strongly disapprove of this way of arguing and call it "affirming the consequent," and, of course, this pedantic condemnation is justified if what they condemn is confusion between one type of syllogism and the other. But to try to fight all syllogisms in grass would be silly because these syllogisms are the very stuff of which natural history is made. When we look for regularities in the biological world, we meet them all the time.}
Von Domarus long ago pointed out that schizophrenics commonly talk and act in terms of syllogisms in grass, and I think he, too, disapproved of this way of organizing knowledge and life. If I remember rightly, he does not notice that poetry, art, dream, humor, and religion share with schizophrenia a preference for syllogisms in grass.

But whether you approve or disapprove of poetry, dream, and psychosis, the generalization remains that biological data make sense -- are connected together -- by syllogisms in grass. The whole of animal behavior, the whole of repetitive anatomy, and the whole of biological evolution -- each of these vast realms is within itself linked together by syllogisms in grass, whether the logicians like it or not.

It's really very simple -- in order to make syllogisms in Barbara, you must have identified classes, so that subjects and predicates can be differentiated. But, apart from language, there are no named classes and no subject-predicate relations. Therefore, syllogisms in grass must be the dominant mode of communicating interconnection of ideas in all preverbal realms.

I think the first person who actually saw this clearly was Goethe, who noted that if you examine a cabbage and an oak tree, two rather different sorts of organisms but still both flowering plants, you would find that the way to talk about how they are put together is different from the way most people naturally talk. You see, we talk as if the Creatura were really Pleromatic: we talk about "things," notably leaves or stems, and we try to determine what is what. Now Goethe discovered that a "leaf" is defined as that which grows on a stem and has a bud in its angle; what then comes out of that angle (out of that bud) is again a stem. The correct units of description are not leaf and stem but the relations between them.

These correspondences allow you to look at another flowering plant -- a potato, for instance -- and recognize that the part that you eat in fact corresponds to a stem.

In the same way, most of us were taught in school that a noun is the name of a person, place, or thing, but what we should have been taught is that a noun can stand in various kinds of relationship to other parts of the sentence, so that the whole of grammar could be defined as relationship and not in terms of things. This naming activity, which probably other organisms don't indulge in, is in fact a sort of Pleromatizing of the living world. And observe that grammatical relationships are of the preverbal kind. "The ship struck a reef" and "I spanked my daughter" are tied together by grammatical analogy.

I went to see the nice little pack of wolves in Chicago at the Brookfield Zoo, ten of them lying asleep all day and the eleventh one, the dominant male, busily running around keeping track of things. Now what wolves do is to go out hunting and then come home and regurgitate their food to share with the puppies who weren't along on the hunt. And the puppies can signal the adults to regurgitate. But eventually the adult wolves wean the babies from the regurgitated food by pressing down with their jaws on the backs of the babies' necks. In the domestic dog, females eventually wean their young from milk in the same way. In Chicago they told me that the previous year one of the junior males had succeeded in mounting a female. Up rushed the lead male -- the alpha animal -- but instead of mayhem all that happened was that the leader pressed the head of the junior male down to the ground in the same way, once, twice, four times, and then walked off. The communication that occurred was metaphorical: "You puppy, you! " The communication to the junior wolf of how to behave is based on a syllogism in grass.

But let us go back to the Lord's Prayer:
Our Father which art in heaven,
Hallowed be thy name.

Of course, my assertion that all preverbal and nonverbal communication depends upon metaphor and/or syllogisms in grass does not mean that all verbal communication is -- or should be -- logical or nonmetaphoric. Metaphor runs right through Creatura, so, of course, all verbal communication necessarily contains metaphor. And metaphor when it is dressed in words has added to it those characteristics that verbalism can achieve: the possibility of simple negation (there is no not at the preverbal level), the possibility of classification, of subject-predicate differentiation, and the possibility of explicit context marking.

Finally there is the possibility, with words, of jumping right out of the metaphoric and poetic mode into simile. What Vaihinger called the as if mode of communication becomes something else when the as if is added. In a word, it becomes prose, and then all the limitations of the syllogisms that logicians prefer, Barbara and the rest, must be precisely obeyed.

The Lord's Prayer might then become:
It is as if you or something were alive and personal and if that were so, it would perhaps be appropriate to talk to you in words. So, although, of course, you are not a relative of mine, since you only as if exist and are, as it were, in another plane (in heaven), etc....
And you know, in human ethnography, the creativeness of human minds is capable of that extreme, and most surprisingly, that extreme can itself constitute a religion -- among behaviorists for example. In a currently fashionable metaphor, the right hemisphere can applaud (and be reassured in) the prosy, cautious logic of the left.

The very act of translation -- from grass to Barbara, from metaphor to simile, and from poetry to prose -- can itself become sacramental, a sacred metaphor for a particular religious stance. Cromwell's troops could run around England, breaking the noses and even heads and genitalia off the statues in the churches, in a religious fervor, simultaneously stressing their own total misunderstanding of what the metaphoric-sacred is all about.

I used to say -- have said many times -- that the Protestant interpretation of the words "This is my Body -- This is my Blood" substitutes something like "This stands for my Body -- This stands for my Blood." This way of interpretation banished from the Church that part of the mind that makes metaphor, poetry, and religion -- the part of the mind that most belonged in Church -- but you cannot keep it out. There is no doubt that Cromwell's troops were making their own (horrible) poetry by their acts of vandalism in which indeed they smashed the metaphoric genitalia as if they were "real" in a left brain sense --

What a mess. But nonetheless, we cannot simply discard the logic of metaphor and the syllogism in grass, for the syllogism in Barbara would be of little use in the biological world until the invention of language and the separation of subjects from predicates. In other words, it looks as though until 100,000 years ago, perhaps at most 1,000,000 years ago, there were no Barbara syllogisms in the world, and there were only Bateson's kind, and still the organisms got along all right. They managed to organize themselves in their embryology to have two eyes, one on each side of a nose. They managed to organize themselves in their evolution so there were shared predicates between the horse and the man, which zoologists today call homology. It becomes evident that metaphor is not just pretty poetry, it is not either good or bad logic, but is in fact the logic upon which the biological world has been built, the main characteristic and organizing glue of this world of mental process that I have been trying to sketch for you.

1 In Septem Sermones ad Mortuos. In later works, e.g. in Answer to Job, Jung uses these words in such a way as to include his archetypes within Pleroma. I believe that this latter usage is more in step with classical and medieval thought, but I also believe that Jung's earlier way of talking provides a clearer base for epistemology.

2 p. 92. [Back to text]


4 Lewis Carroll, Alice Through the Looking Glass (New York: New American Library, 1960), 212. GB here uses the example from Alice to make a transition from Korzybski to the theory of logical types. [Back to text]


6 Gregory seems to have become interested in this material as the result of an article by Curtis Wilson, "On the Discovery of Deductive Science," The St. John's Review (January 1980): 21-31. [Back to text]

7 Embodiments of Mind, 1-18 [Back to text]

8 E. von Domarus, "The Specific Laws of Logic in Schizophrenia," Language and Thought in Schizophrenia, ed. J. S. Kasanin (Berkely: U of California P, 1944). GB developed these ideas in response to criticism by Nick Humphrey ("New Ideas, Old Ideas") The London Review of Books, 6 December 1979) of the argument of Mind and Nature, which may be said to have the following structure:

Evolution is stochastic (able to achieve novelty by a combination of random and selective processes);
Mental process (such as thought) is stochastic;
Evolution is a mental process. [Back to text]

III Metaphor: Why Do You Tell Stories? (MCB)

DAUGHTER: Daddy, why do you talk about yourself so much?

FATHER: When we are talking, you mean? I'm not sure that I do. Certainly there is a lot about myself that never comes up.

DAUGHTER: That's right, but you tell the same stories again and again.

For instance, you presented your epistemology for the introduction by telling how you arrived at it, and now you've been telling about going to the zoo in Chicago. And I've heard you tell a hundred times about going to the San Francisco Zoo and watching the otters at play, but you never talk about what you played with as a child. Did you ever have a puppy to play with when you were a little boy? What was its name?
FATHER: Whoa, Cap. That's a question that's just going to remain unanswered. But you're quite right that even when I tell stories out of my experience, it's not my own history I'm talking about. The stories are about something else. The otter story is about the notion that in order for two organisms to play, they have to be able to send the signal "this is play." And that leads to the realization that that kind of signal, the metacommunication or the message about the message, is going to be part of their communication all the time.

DAUGHTER: Well, but we're two organisms. And we have that same problem you're always talking about, of figuring out whether we are playing or exploring or what. What does it tell me that you don't talk talk about play. I want to talk about talking about play -- how the otters go about it and how we might try to go about it.

DAUGHTER: Talking about talking about talking. Cosy. So this has turned into an example of logical types, all piled up. The otter story is a story about metamessages, and the stories of you growing up in a positivistic household are about learning -- because it was in thinking about learning and learning to learn that you began to realize the importance of the logical types. Messages about messages, learning about learning. I must say, even though the logic boys say they have new and better models of logical types that you don't take account of, you get a lot of mileage -- a lot of insight -- out of using them, when almost nobody else does.

But, Daddy, can you just go along at the top of the pile? I don't think you can talk about talking about talking without talking, and I mean talking about something specific, something solid and real. If you tell a story about play when I'm not part of it, does that mean we're not playing?

FATHER: Playing we may be, but you're nipping at my heels in this particular game. Look, we're getting into a tangle. You have to distinguish the logical types in the words of our conversation from the overall structure in the communication, of which the verbal conversation is only part. But one thing you can be sure of is that the conversation isn't about "something solid and real." It can only be about ideas. No pigs, no coconut palms, no otters or puppy dogs. Just ideas of pigs and puppy dogs.

DAUGHTER: You know, I was giving a seminar one evening at Lindisfarne, Colorado, and Wendell Berry was arguing that it is possible to know the material world directly. And a bat flew into the room and was swooping around in a panic, making like Kant's Ding an sich. So I caught it with somebody's cowboy hat and put it outside. Wendell said, "Look, that bat was really in here, a piece of the real world," and I said, "Yes, but look, the idea of the bat is still in here, swooping around representing alternative epistemologies, and the argument between me and Wendell too."

FATHER: Well, and it is not irrelevant that Wendell is a poet. But it's also true that since we're all mammals, whatever word games we play we are talking about relationship. Professor X gets up at the blackboard and lectures about the higher mathematics to his students, and what he is saying all the time is "dominance, dominance, dominance." And Professor Y stands up and covers the same material, and what he is saying is "nurturance, nurturance, " or maybe even "dependency, dependency," as he coaxes his students to follow his argument.

DAUGHTER: Like the mewing cat you're always talking about that isn't saying "milk, milk" but "dependency, dependency." Hmm. You wouldn't want to comment on the nationality of your two professors, would you?

FATHER: Brat. What is even more interesting is that someone like Konrad Lorenz can be talking about communication of relationships among geese, and he turns into a goose up there at the blackboard, the way he moves and holds himself, and it's a much more complicated account, a much richer account of the geese than we have had here about otters . . . .

DAUGHTER: And he's talking to the audience about dominance and so on at the same time. A man talking about a goose talking about a relationship that's also about the man's relationship to the other men . . . oh dear. And everybody in the room is supposed to pretend that it isn't happening.

FATHER: Well, the other ethologists get pretty resentful of Lorenz. They talk as if he were cheating, somehow.

DAUGHTER: What is cheating anyway?

FATHER: Mmm. In conversation it is "cheating" to shift logical types in ways that are inappropriate. But I would argue that for Lorenz to move like a goose or to use empathy in the study of geese is appropriate -- the way he moves is part of the empathy. But I run into the same problem: people say I'm cheating when I use the logic of metaphor to speak about the biological world. They call it "affirming the consequent" and seem to feel that anyone who does so should have their knuckles rapped. But really it seems to me to be the only way to talk sense about the biological world, because it is the way in which that world, the Creatura, is itself organized.
DAUGHTER: Hmm. Empathy. Metaphor. They seem similar to me. It seems to me as if making those things against the rules -- calling them cheating -- is like the kind of constraints you have in a relay race. You know, one hand tied behind your back, or your legs in a sack.

FATHER: Quite.

DAUGHTER: Well, but Daddy, I want to get back to the subject. I want to know why you are always telling stories about yourself. And most of the stories you tell about me, in the metalogues and so on, aren't true, they're just made up. And here I am, making up stories about you.

FATHER: Does a story have to have really happened in order to be true? No, I haven't said that right. In order to communicate a truth about relationships, or in order to exemplify an idea. Most of the really important stories aren't about things that really happened -- they are true in the present, not in the past. The myth of Kevembuangga, who killed the crocodile that the Iatmul believe kept the universe in a random state --

DAUGHTER: Look, let's not get into that. What I want to know is, why do you tell so many stories, and why are they mainly about yourself.

FATHER: Well, I can tell you that only a few of the stories in this book are about me, and only apparently so at that. But as for why I tell a lot of stories, there's a joke about that. There was once a man who had a computer, and he asked it, "Do you compute that you will ever be able to think like a human being?" And after assorted grindings and beepings, a slip of paper came out of the computer that said, "That reminds me of a story . . . "

DAUGHTER: So human beings think in stories. But maybe you're cheating on the word "story." First the computer uses a phrase that's used for introducing one kind of story . . . and a joke is a kind of story . . . and you said that the myth of Kevembuangga is not about the past but about something else. So what is a story really? And are there other kinds of stories, like sermons in the running brook? How about trees, do they think in stories? Or do they tell stories?

FATHER: But surely they do. Look, just give me that conch over there for a minute. Now, what we have here is a whole set of different stories, very beautiful stories indeed.

DAUGHTER: Is that why you put it up on the mantelpiece?

FATHER: This that you see is the product of a million steps, nobody knows how many steps of successive modulation in successive generations of genotype, DNA, and all that. So that's one story, because the shell has to be the kind of form that can evolve through such a series of steps. And the shell is made, just as you and I are, of repetitions of parts and repetitions of repetitions of parts. If you look at the human spinal column, which is also a very beautiful thing, you'll see that no vertebra is quite like any other, but each is a sort of modulation of the previous one. This conch is what's called a right-handed spiral, and spirals are sort of pretty things too -- that shape which can be increased in one direction without altering its basic proportions. So the shell has the narrative of its individual growth pickled within its geometric form as well as the story of its evolution.

DAUGHTER: I know -- I looked at a cat's-eye once and saw the spiral, so I guessed it had come from something alive. And that's a story about our talking that did get into a metalogue.

FATHER: And then, you see, even though the conch has protrusions that keep it from rolling around the ocean floor, it's been worn and abraded, so that's still another story.

DAUGHTER: You mentioned the spinal column too, so that the stories of human growth and evolution are in the conversation as well. But even when you don't actually mention the human body, there are common patterns that become a basis for recognition. That's what I meant -- part of what I meant -- when I said years ago that each person is his own central metaphor. I like the conch because it's like me but also because it's so different.

FATHER: Hello, snail. Well, so I tell stories, and sometimes Gregory is a character in the story and sometimes not. And often the story about a snail or a tree is also a story about myself and at the same time a story about you. And the real trick is what happens when the stories are set side by side.

DAUGHTER: Parallel parables?

FATHER: Then there is that class of stories we call models, which are generally rather schematic and which, like the parables presented by teachers of religion, exist precisely to facilitate thought about some other matter.

DAUGHTER: Well, but before you go off on models, I want to point out that the stories about snails and trees are also stories about you and me, in combination. And I'm always responding to the stories you don't tell as well as the ones you do, and doing my best to read between the lines. But now you can tell me about models or even about Kevembuangga if you want to. That's safe enough -- I've heard it before.
ANGELS FEAR Towards an Epistemology of the Sacred. By Gregory Bateson and Mary Catherine Bateson.

At the end of his life, Bateson believed that "we are not going to get far unless we acknowledge that the whole of science and technology . . . springs out of and impinges on religion." The way was prepared for this view in "Mind and Nature," in which Bateson affirmed a holistic unity among human mental processes and culture and biology. He described there how this connection is only comprehensible metaphorically, particularly in metaphors which are familiar from religion.

For Bateson, "it becomes evident that metaphor is not just pretty poetry, it is not either good or bad logic, but is in fact the logic upon which the biological world has been built, the main characteristic and organizing glue of this world of mental process." Indeed, metaphor is the clue, the link to what others may find diverse and oppositional. "Metaphor" itself is thereby the metaphorical connection between science, cybernetics and epistemology, on the one hand ("this book is not much concerned with truths about things - only with truths about truths"), and, on the other hand, poetry, parable, anecdote, humor, play and myth ("It is time to reverse the trend which since Copernicus has been in the direction of debunking mythology"). As Mary Catherine Bateson properly remarks, her father's method is "insight through analogy.

This is all bound to bother those who feel that the work attempts to reinvent the wheel of being, that it is one more instance of science coming late to what philosophers and theologians have known all along. It is also bound to irritate those who deem amateur philosophizing and theologizing hopelessly unsophisticated. Such readers will think that the ideas of Wittgenstein, W. V. O. Quine and John Searle render this book epistemologically beside the point, that Nietzsche, Heidegger and Derrida make it look naive in literary terms and that it is theologically simplistic in the face of the work of Mircea Eliade, Paul Tillich and Bernard Lonergan.

BATESON lived in the gaps, betwixt and between. Not that he, or the book, idealizes the absurd. Mary Catherine Bateson has masterfully pulled together what must have been a hodgepodge of several years of reflections. As a connecting device, she engages her father in dialogue about the book and its ideas. The imaginary conversations are often constructed from notes of real ones, but just as often they are purely fictive. This strategy works. It aids the reader and is appropriate to the content of Bateson's argument. Bateson's liminal stance is understood best when he speaks about the "unacceptable solutions" to the mind-body problem represented by supernaturalism and materialism: "Very simply, let me say that I despise and..."
fear both of these extremes of opinion and that I believe both extremes to be epistemologically naive, epistemologically wrong, and politically dangerous. They are also dangerous to something which we may loosely call mental health." So he takes as his task "to explore whether there is a sane and valid place for religion somewhere between these two nightmares of nonsense." Especially, he hopes that the metaphorical view may provide "a new and badly needed humility."

I believe there is a clue to this humility, and to this book, in the shifting title. Bateson began the writing in 1978. His daughter tells us that it was to be called "Where Angels Fear to Tread," but that he often referred to it as "Angels Fear." She retained the latter. This title appropriately, if subtly, calls up notions of angelic reticence and humility rather than an image of fools rushing into religion. But there is also a hint of a missing apostrophe in the title, like the one omitted in Joyce's "Finnegans Wake." This opens the possibility that fears may be viewed as angelic. For in profound fears one may discover a response to the question the anthropologist shares with the Sphinx and the Psalmist: "What is the human?" Deep in such fears are the angels - "deep unconscious philosophies," as Bateson calls them. "The myths in which our lives are embedded . . . are built deeply into character, often below awareness, so that they are essentially religious, matters of faith." It would seem that Bateson knew both the humor and the truth in some wag's saying: "A man's reach should exceed his grasp, or what's a 'meta' for?"


Appendix XVI: Just Got Lost in Translation...

Appendix XVII: Philosophen im Spannungsfeld ...

von Thymos, Eros und Logos
Es existiert ein interessantes Spannungsfeld, zwischen Thymos, Eros und Logos gerade bei den Philosophen selber, die ihr Leben ja dem Dienst des Logos verschrieben haben. Von ihren Vitae wissen wir, dass ein sehr grosser Prozentsatz der Philosophen ein ziemlich gespaltenes Verhältnis zum Eros hatten. Siehe dazu: "Die Liebhaber der Sophie" Man kann die grossen Philosophen, die ein geregeltes Sex-Leben hatten, wohl an einer Hand abzählen:

Hegel: Er hatte eine sehr junge Frau, für die er wohl aber eher Vater-Figur war.

Gotthard Günther (der wegen seiner jüdischen Frau emigrieren musste).

Whitehead

Heidegger, der war zwar durch & durch "Normalo" bürgerlich, aber auch nicht so ganz geregelt:
Da er sich mit seinen Studentinnen vergnügte, ich glaube es war Hannah Arendt.

Kant gehört hier zwar überhaupt nicht rein, weil der absolut gar kein Sex-Leben hatte, aber als so ca. grösster aller deutschen Philosophen, ist er bekannt wegen seines berühmten Ausspruchs zur Ehe:
Die bürgerliche Ehe ist ein Vertrag zum gegenseitigen Gebrauch der Geschlechtsteile.

Moses Mendelssohn,
von dem eine wahrhaft rührende Story überliefert ist, wie er seine Frau gewann.
http://www.wisdomportal.com/Romance/Mendelssohn-Gugenheim.html

Sartre: war ein wahres Sex-Monster, wohl auch nicht so ganz geregelt. [114]
http://en.wikipedia.org/wiki/Simone_de_Beauvoir

Rousseau war zwar auch verheiratet, aber er schrieb seitenlange Elegien über seine Masturbations-Erlebnisse. [115] Seine Kinder (es waren eine ganze Menge) gab er übrigens beim Waisenhaus ab.


Michel de Montaigne
http://de.wikipedia.org/wiki/Michel_de_Montaigne

Aristoteles (war aber wohl auch nicht so ganz geregelt)[316]

Sokrates: Er soll aber viel Streit mit seiner Frau Xantippe gehabt haben, aber zum Trost bekam er von den Hetären öfter mal eine Freifahrt spendiert.[317]

Diogenes ist für mich deswegen Philosophie-Geschichtlich bedeutsam, weil er sexuell so ziemlich autopoietisch war, also eben ein Existen-zialist. Einmal masturbierte er öffentlich auf dem Athener Marktplatz, der Agora. Da fragten ihn die aufgebrachten Athener Bürger, was er denn da mache. Allso sagte er da: Ich will euch nur vorführen, wieviel einfacher das Leben wäre, wenn man Hunger hat, bräuchte man sich nur den Bauch zu reiben, und schon wäre man satt.

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Die meisten früheren Philosophen
... aber waren entweder christlich Zölibatär,
Abaelard war gezwungenermassen enthalsam, dank des kleinen Messerchens,
Origines hatte sich da wohl selber nachgeholfen,
ewige Singles (Kierkegaard),
unglücklich verliebt (Nietzsche, in Lou Salome)[318]
Frauen- Hasser / -Verächter, (wie Plato und Schopenhauer)
Jenseits von Gut & Böse (Plotin, Kant)
Vollkommene Meister der Ataraxia (die Stoiker)
Schwul (Wittgenstein)
or
Syphilitisch. [319]

Heutige Philosophie


Not An Appendix XVIII: Some Dangling Odds and Ends

Here I list some subjects which I intend to expound some time sooner or later, when I have the spare time to do some more research on. This will probably happen more at a quite some later time, since I have so little time to spare.

Michelangelo:
https://www.google.com/search?q=sophia+michelangelo&tbm=isch&source=hp&sa=X&ved=2ahUKEwiULmDMdAhUJ_qQKHebaBx8QsAR6BAgFEAE&biw=1306&bih=660

The End of the End is the Beginning of another End

Technische Fussnote 1
The End of the End is the Beginning of another End

Please Give me Another End!

This is The End of the Never Ending End.