

Microsoft® Research

Faculty Summit 2010

Planet-Wiki?

Translation, Language and Power on Wikipedia

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PART ONE

The Humanities and Digitality

Humanity

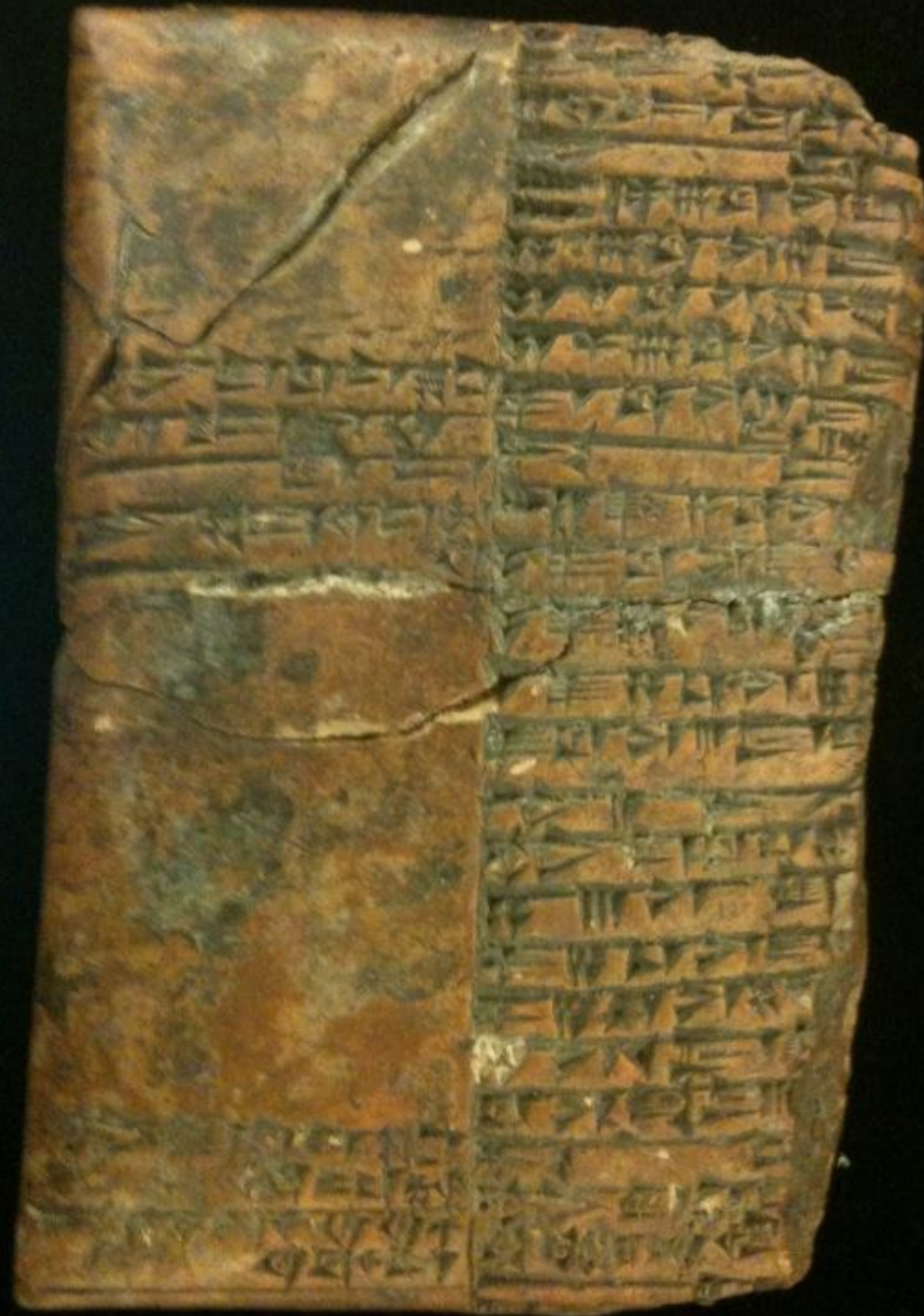
Species

Language

What characterizes a Language?

- grammar: the structural relationships between the signs in a system
- pragmatics: the context within which signs are used
- semantics: the content and context which give signs meaning

Orality/Pr
esence



Sumerian Tablet
circa 2400 BCE
Cary Collection
RIT

Writing/
Re-presentation

Humanities

History
Literature
Philosophy

Reading and Writing

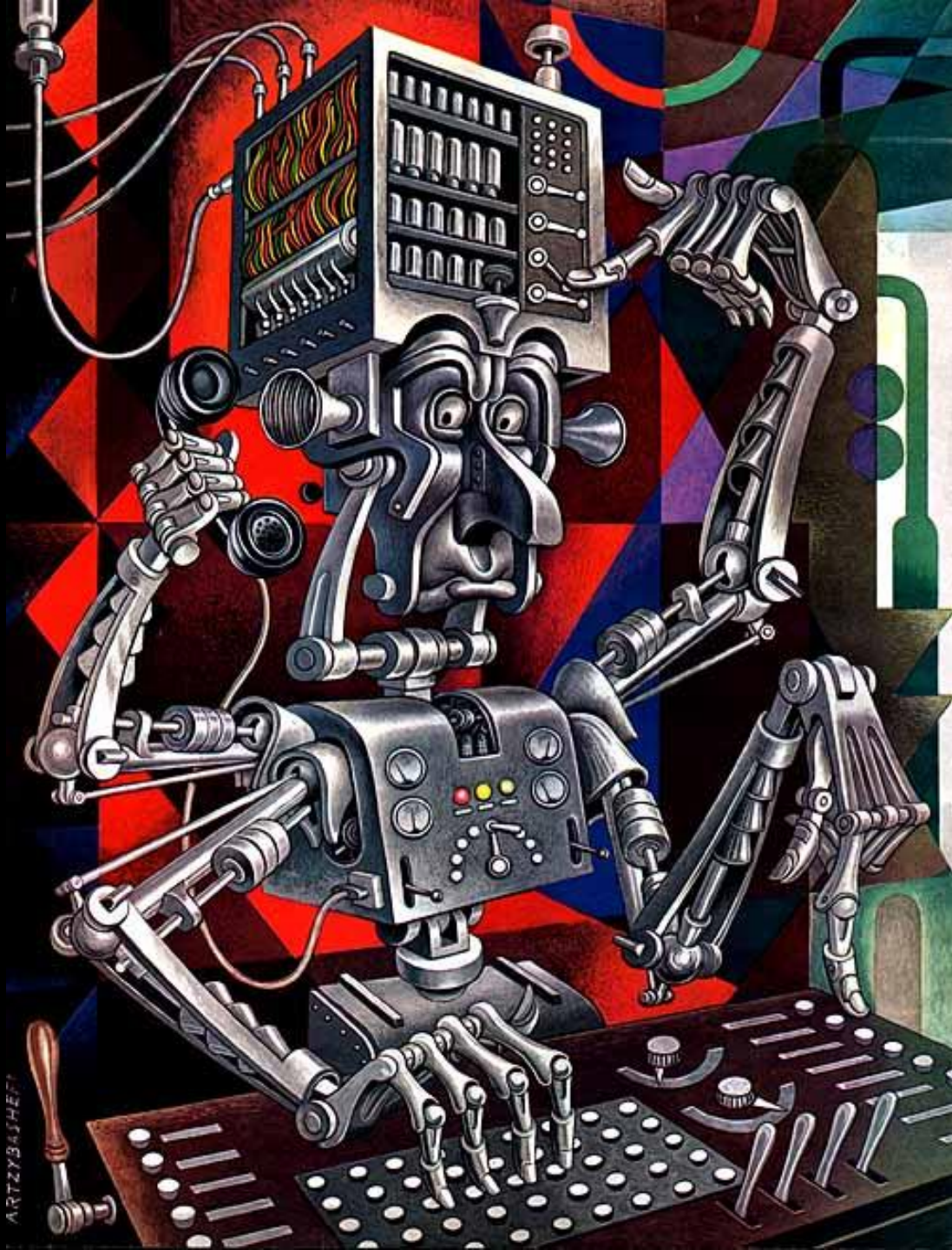
Encoding
and
Decoding
Signs

The Linguistic Sign functions through Analogy

Analog Code

When the epoch of **analog** (which was to say also of the richness of language, of analogy) was giving way to the **digital** era, the final victory of the numerate over the literate."

Salman Rushdie, *Fury* (2001)



Analog and Binary Code



2010

circa 2400 BCE

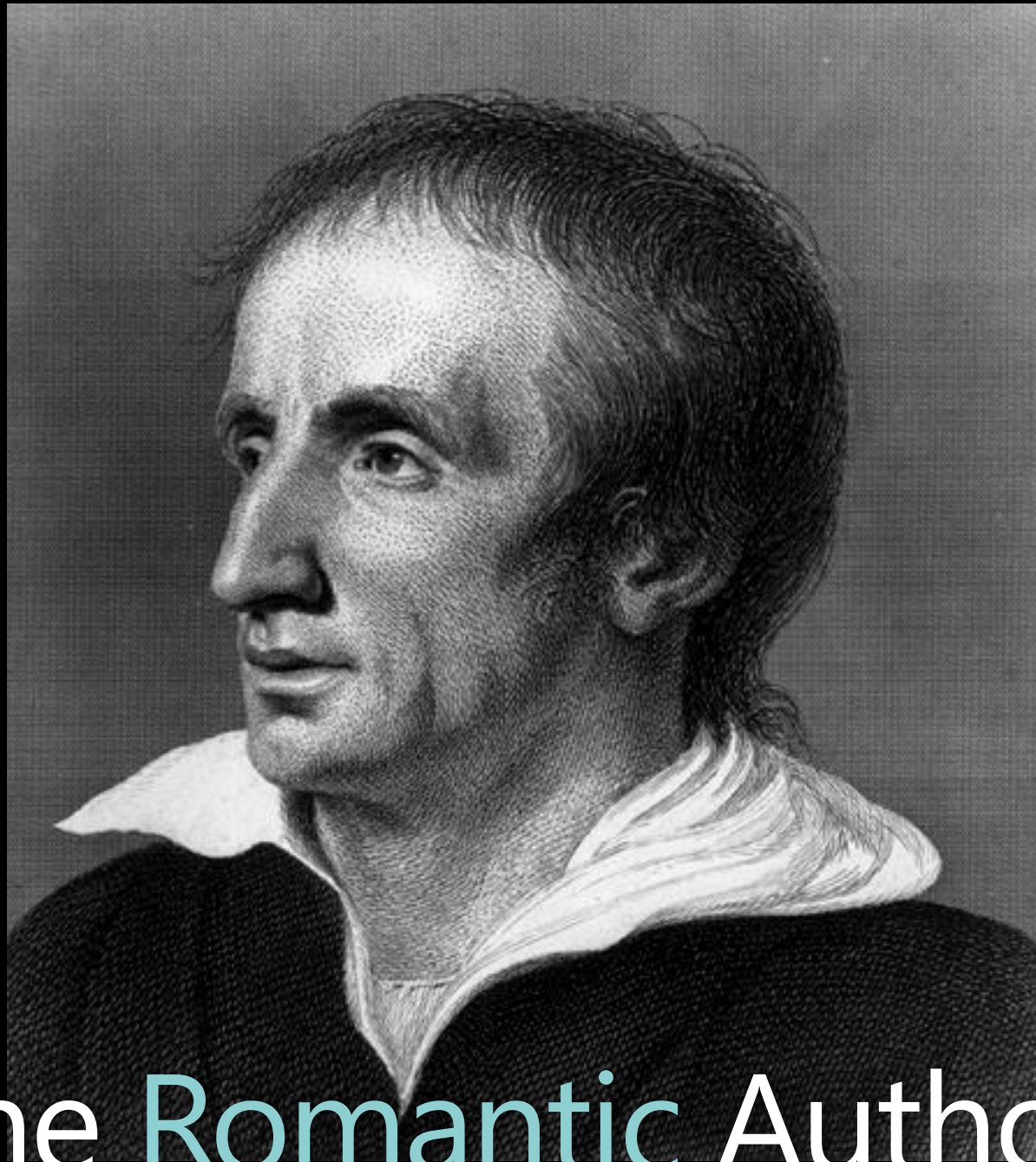
Cary Collection
RIT

PART TWO

Wikipedia
and
Distributed Authorship

What is an Author ?

Authorship and Identity



The Romantic Author

Identity and Creation



creation
authorship
individuality
property

A person with curly hair, wearing a dark jacket and pants, stands on a dark, jagged rock formation. They are looking out over a vast, misty landscape with rolling hills and mountains in the distance. The sky is a pale, hazy blue. The overall mood is contemplative and expansive.

Cultural Production
begins and ends
with the Individual

Culture
of the
Individual

Product
over
Process

Author > Reader

What does it matter
who is speaking?

From author to author-function

- What are the modes of existence of this discourse?
- Where has it been used, how can it circulate and who can appropriate it for himself?
- What are the places in it where there is room for possible subjects?
- Who can assume these various subject positions?



Article

Discussion

Read

Edit

View history

Search



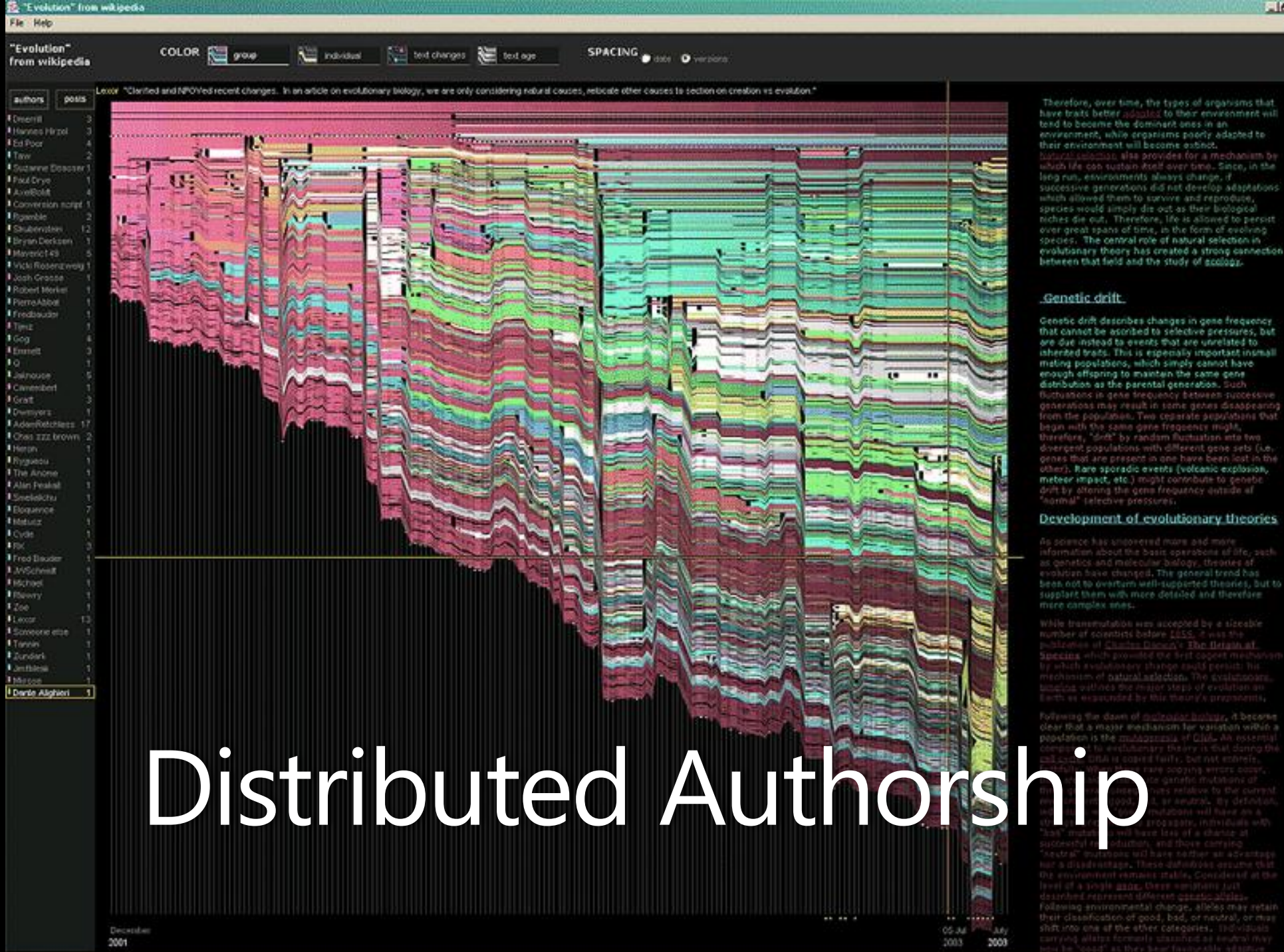
Author

From Wikipedia, the free encyclopedia

- collaborative (edit)
- continuous (discussion)
- constant (history)

Reader/Writer/Editor

Serial Collaboration



Distributed Authorship

Fill their Seven Vials with salutary wrath,

To sickly Nature more medicinal

That what soft balm the weeping good man pours 100

Into the lone despoiled trav'ler's wounds!

Thus from th' Elect, regenerate thro' faith,

Pais the dark Passions and what thirsty Cares

Drink up the spirit and the dim regards

Self-center. Lo they vanish! or acquire

New names, new features — by supernal grace

Enrob'd with Light, and naturaliz'd in Heaven.

As when a Shepherd on a vernal morn

Thro' some thick fog creeps tim'rous with slow foot,

Darkling he fixes on th' immediate road

His downward eye: all else of fairest kind

Hid or deform'd. But lo, the bursting Sun!

Love shines to every little casual light

In every quivering sense, his eye is cast

That since he's been beset with such a host

To be his happy impure

But a glad pin-point of pleasure

Is his

Distributed Creation

Crowdsourcing

Anthropology of Free Software Production

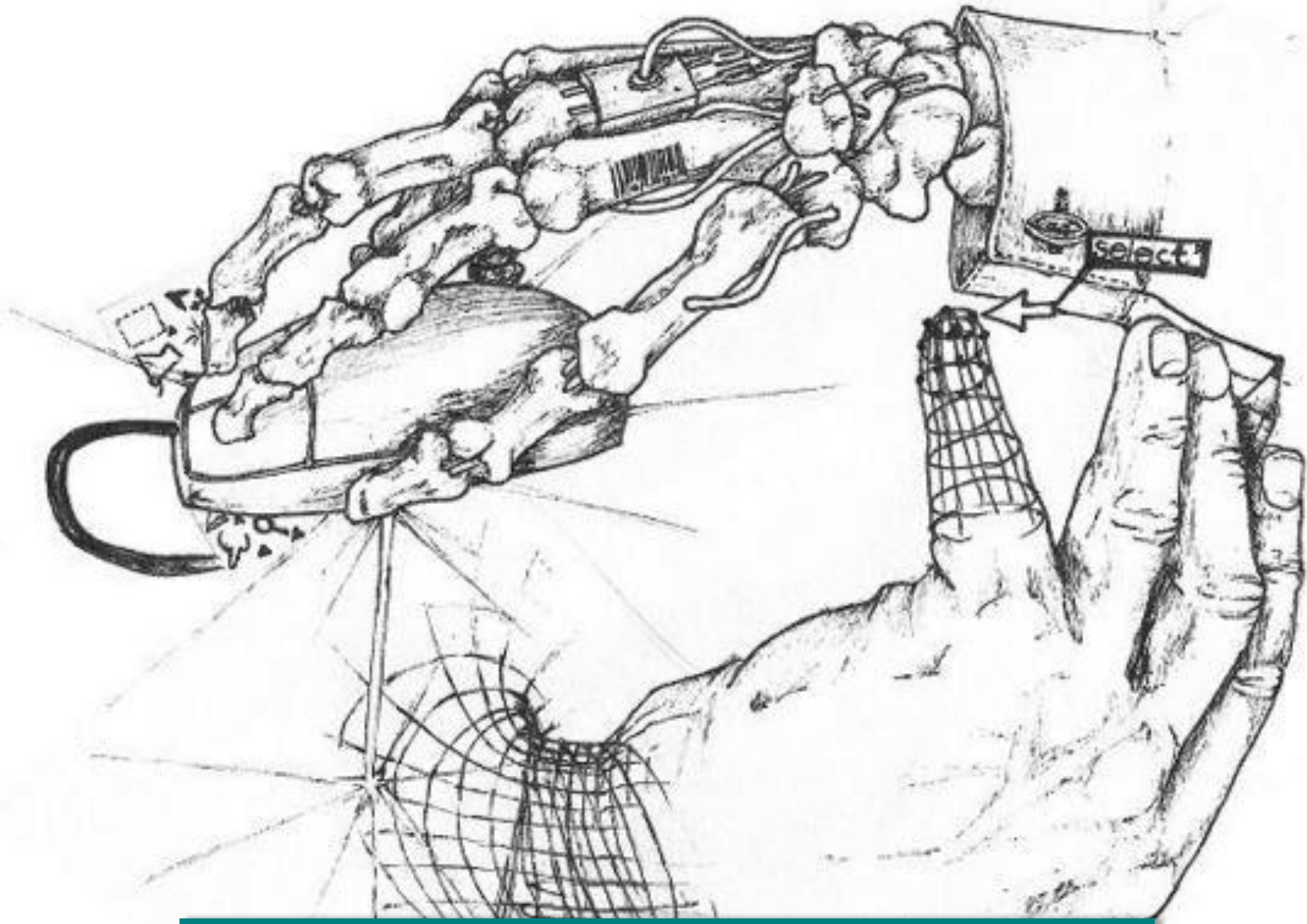
- Highly Organized
- Transparent
- Meritocratic

Massively Distributed Collaboration

Commons-based Peer Production

“Free as in Freedom”

Free Software



Recursive Publics

Community

Digital Palimpsest

PART THREE

“Planet-Wiki?”

Language,

Translation,

Power.

WIKIPEDIA

English

The Free Encyclopedia
533 000+ articles

Deutsch

Die freie Enzyklopädie
225 000+ Artikel

日本語

フリー百科事典
110 000+ 記事

Svenska

Den fria encyklopedin
71 000+ artiklar

Nederlands

De vrije encyclopedie
66 000+ artikelen

Italiano

L'enciclopedia libera
40 000+ articoli

Português

A enciclopédia livre
37 000+ artigos

Français

L'encyclopédie libre
100 000+ articles

Polski

Wolna Encyklopedia
64 000+ haseł

Español

La enciclopedia libre
46 000+ artículos



Currently more than 270 languages.

According to Alexa, as of May 2010 Wikipedia was the 6th most visited site on the planet.



a multilingual tree
encyclopedia

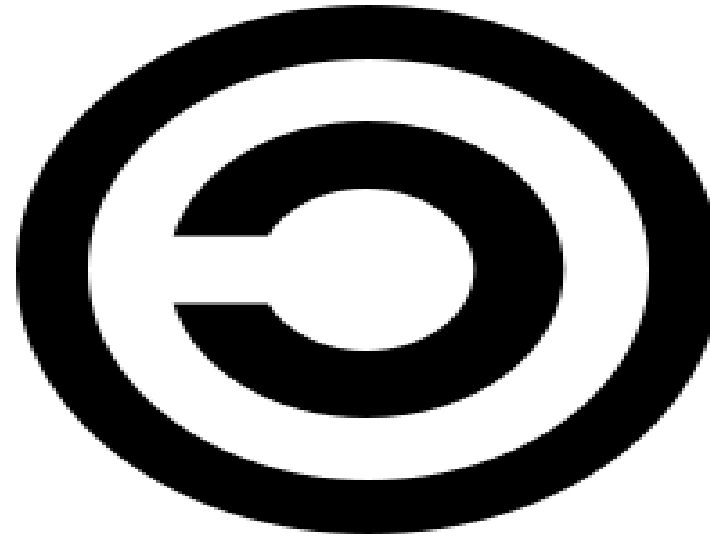
Wiktionary

[ˈwɪkʃənri] *n.*,
a wiki-based Open
Content dictionary

וילון [ˈwɪl kəʔɪ]



Think free. Learn free.



WIKIPEDIA



WIKIMEDIA
COMMONS



WIKISPECIES
free species directory



WIKINEWS



WIKIVERSITY

1 000 000+ articles

No	Language	Language (local)	Wiki	Articles	Total	Edits	Admins	Users	Active Users	Images	Depth
1	English	English	en	3,318,857	20,591,387	392,782,085	1,727	12,507,334	149,010	847,764	517
2	German	Deutsch	de	1,078,924	3,081,634	78,449,987	288	1,011,248	24,706	192,622	88

100 000+ articles

No	Language	Language (local)	Wiki	Articles	Total	Edits	Admins	Users	Active Users	Images	Depth
3	French	Français	fr	957,108	3,887,654	57,520,684	188	848,448	16,276	40,019	139
4	Polish	Polski	pl	706,166	1,263,655	23,093,164	164	368,878	6,048	1,176	11
5	Italian	Italiano	it	696,129	2,162,567	36,112,756	98	521,356	8,829	77,805	74
6	Japanese	日本語	ja	682,165	1,787,921	33,085,529	64	426,114	11,783	74,855	49
7	Spanish	Español	es	606,773	2,748,813	40,335,195	138	1,508,207	16,741	0	183
8	Dutch	Nederlands	nl	605,927	1,461,600	21,542,138	68	319,918	5,333	18	29
9	Portuguese	Português	pt	585,218	2,276,410	20,878,532	38	741,932	6,482	0	77
10	Russian	Русский	ru	546,735	1,950,805	26,572,110	87	499,431	12,829	101,264	90
11	Swedish	Svenska	sv	358,898	942,021	12,210,704	103	177,694	3,551	0	34
12	Chinese	中文	zh	311,808	1,004,649	13,513,399	79	844,792	5,770	28,288	66
13	Norwegian (Bokmål)	Norsk (Bokmål)	no	262,353	637,102	7,601,313	64	163,064	2,284	628	24
14	Catalan	Català	ca	246,148	590,965	5,523,759	23	61,658	1,528	5,347	18
15	Finnish	Suomi	fi	240,705	649,188	8,827,607	49	150,260	2,263	24,134	39
16	Ukrainian	Українська	uk	211,420	657,435	4,498,804	20	71,588	1,627	35,124	30
17	Czech	Čeština	cs	164,915	427,758	5,652,158	25	114,941	2,181	178	34
18	Hungarian	Magyar	hu	163,175	541,727	8,009,882	35	140,412	2,442	34,977	80
19	Turkish	Türkçe	tr	145,285	710,793	8,218,727	23	289,641	2,351	23,849	175
20	Romanian	Română	ro	145,075	584,659	4,286,536	25	146,561	1,535	41,497	67
21	Korean	한국어	ko	137,738	399,548	5,597,803	24	116,889	2,178	7,763	51
22	Esperanto	Esperanto	eo	130,307	288,597	2,928,596	18	36,784	477	11,970	15
23	Danish	Dansk	da	130,055	345,129	4,244,169	40	105,708	1,260	5	34
24	Arabic	العربية	ar	127,516	713,325	6,558,562	23	288,070	2,129	7,897	194
25	Indonesian	Bahasa Indonesia	id	126,063	447,132	3,861,738	14	180,394	1,517	20,111	56

30 languages have more than 100,000 entries

61 languages have more than 10,000 entries

96 languages have more than 1000 entries

Meta: Babylon

From Meta, a Wikimedia project coordination wiki

NEW BABYLON

the Wikimedia translators' portal/noticeboard

English: The **Babylon** is the Meta translations portal and noticeboard. For general discussions about translations see the [talk page](#).

+/-

Language select:

[Go to meta index](#)

Getting started

- [Introduction](#)
- [What languages do you speak?](#)
- [Translation FAQ](#)
- [Editing tutorial](#)
- [Work together](#)

Submission help

- [Foundation-level issues](#)
 - [Read more...](#)
- [Submit your own request!](#)

Transcom

- [About us](#) · [Contact us](#)

Translation requests

Automagical page listing all translation requests on meta: go there for request-related links.

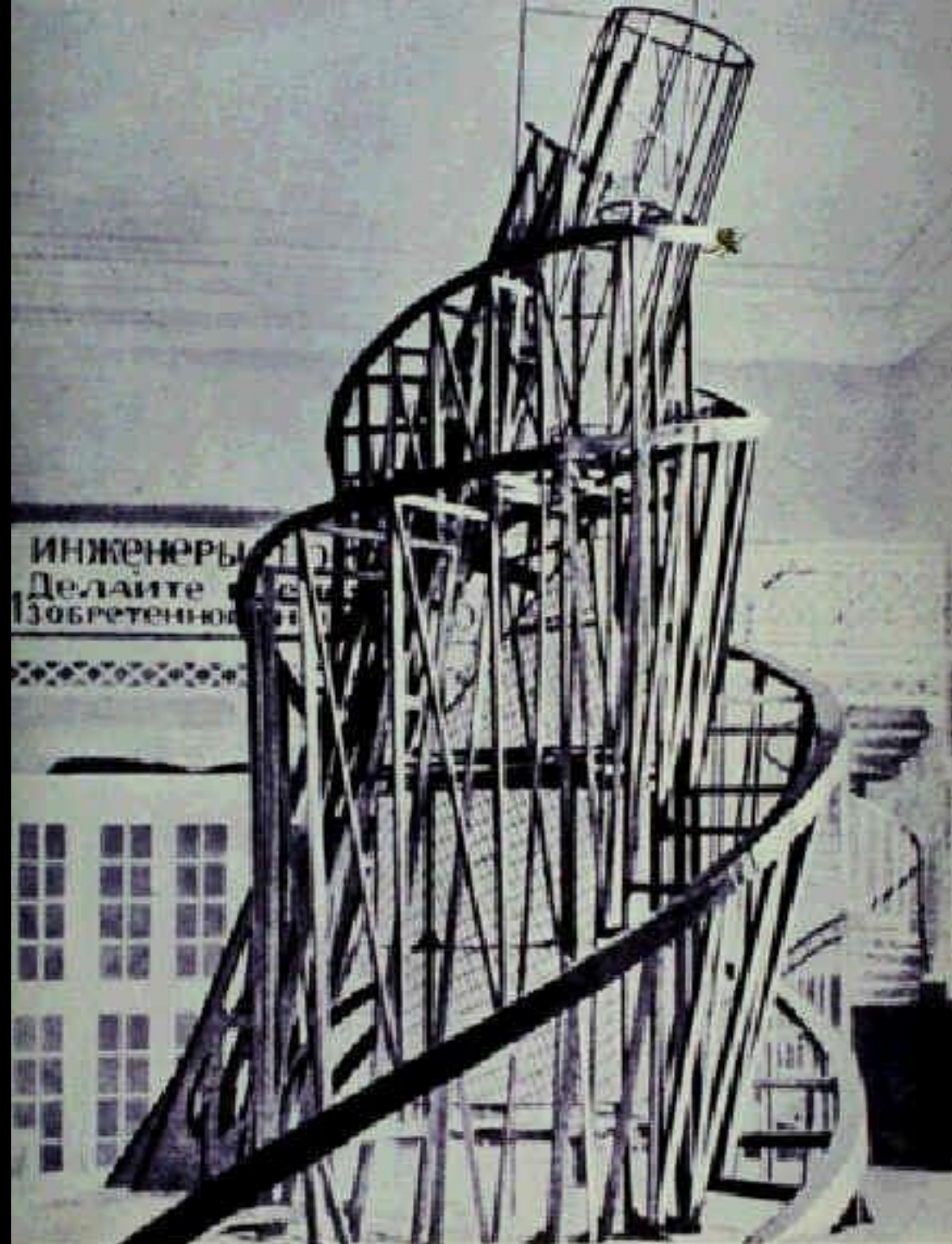
Direct links:

- [Urgent needs](#)
- [Need to copyedit/proofread](#)
- [Requests from communities](#)
- [MediaWiki Localization](#)

Communications

- [Meta talk: Babylon](#)
 - If you have questions, doubts, proposals and anything else about translations you want to ask, write at this page.
- [translators-l](#)
 - The official Wikimedia translators' mailing list. Sign up!
- [#wikimedia-translators](#)
 - The official translator's IRC channel. Visit us when you need help, just want to chat, or for







The End of History ?

Sources for translation are
languages of power

Distributed outwards from
the Anglosphere.

Natural Language

- humans are distinguished as a species by their advanced capacity to use language
- language is the means for connecting the internal world of the organism to the external world of natural and social phenomena



"Universal Grammar"

Humans have innate capacity for grammar.

Noam Chomsky, *Logical Structure of Linguistic Theory* (1955)

For a long time, the idea that language might shape thought was considered at best untestable and more often simply wrong. Research in my labs at Stanford University and at MIT has helped reopen this question. We have collected data around the world: from China, Greece, Chile, Indonesia, Russia, and Aboriginal Australia. What we have learned is that people who speak different languages do indeed think differently and that even flukes of grammar can profoundly affect how we see the world. Language is a uniquely human gift, central to our experience of being human. Appreciating its role in constructing our mental lives brings us one step closer to understanding the very nature of humanity.

HOW DOES OUR LANGUAGE SHAPE THE WAY WE THINK? [6.12.09]

By Lera Boroditsky



LERA BORODITSKY is an assistant professor of psychology, neuroscience, and symbolic systems at Stanford University, who looks at how the languages we speak shape the way we think.

[Lera Boroditsky's Edge Bio Page](#)

Sapir-Whorf Hypothesis

- theorizes that thoughts and behavior constructed and influenced by language
- linguistic relativity: "the variance of cultural concepts and categories in different languages affect the cognitive classification of the experienced world in such a way that speakers of different languages *think and behave differently because of it*"
- languages are "arbitrary systems of symbolism"

Linguistic Imperialism?

Translation is not a faithful
act of reproduction

Translation is
interpretive

What kinds of
communities?

The Internet and the politics of development

The Green Revolution

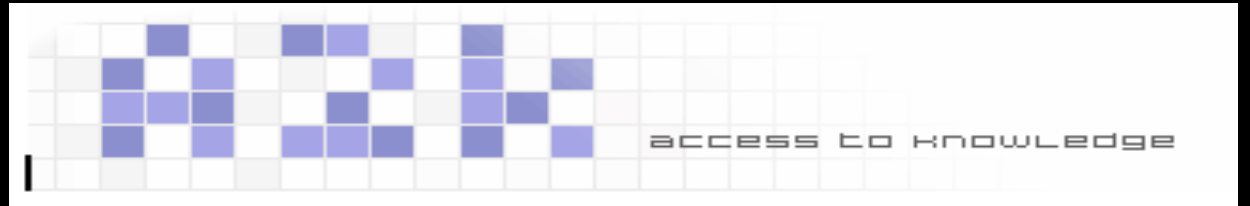
Top Down

Universalist and Totalizing

Techno-deterministic

Unintended Consequences







one laptop per child



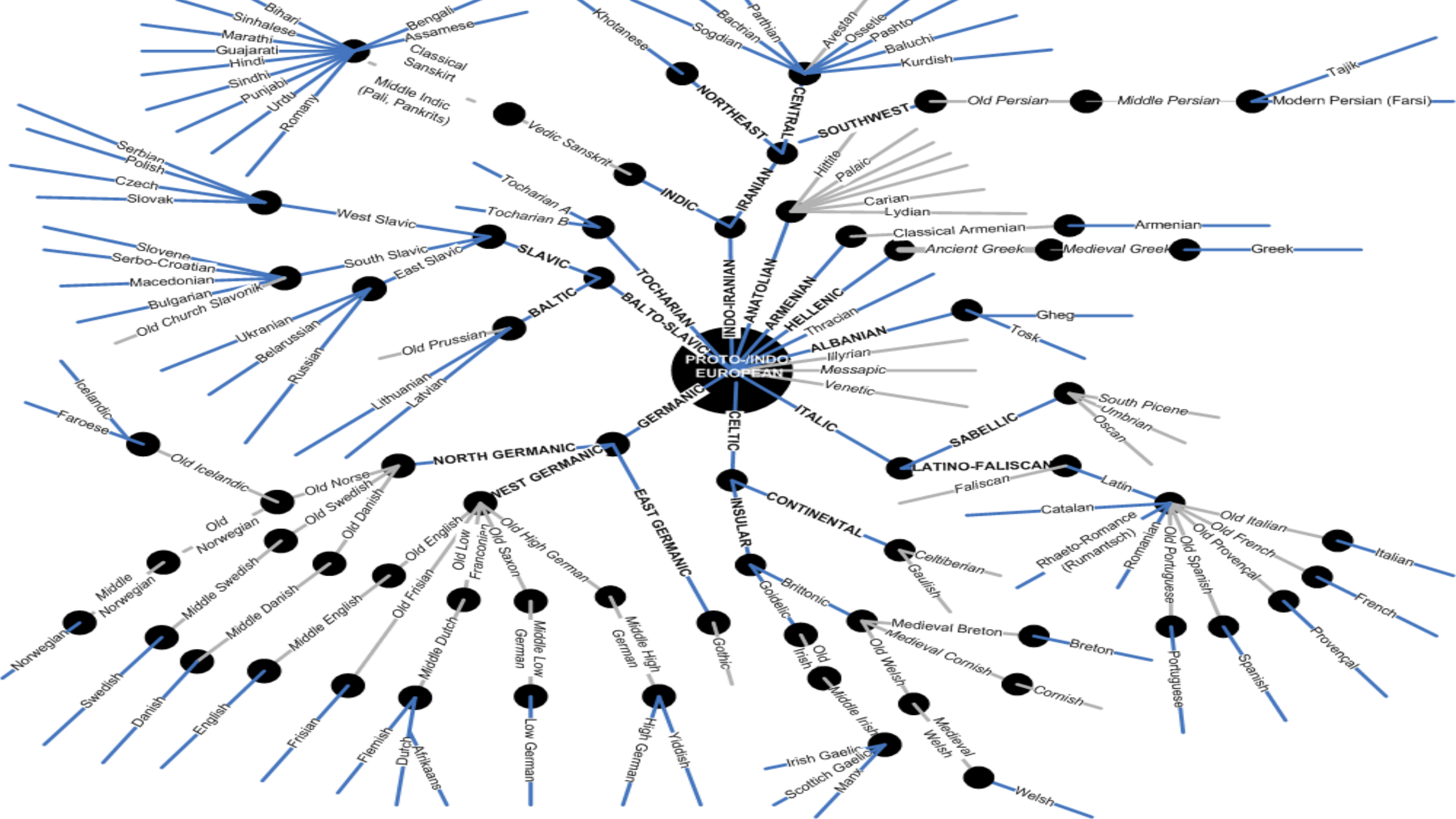


...to protect and enhance [expand] access to knowledge, and to facilitate the transfer of technology to developing countries. (A2K Treaty Draft 9 May 2005)

Freedom

- Technological threshold conditions enable greater practical human agency
- Individual action, both commercial and noncommercial, and social sharing & exchange emerge as major modalities of economic production
- Greater individual autonomy, an appreciably more participatory public sphere, and newly emerging practices of a more participatory and critically self-reflective culture

information and access
automatically convert into
empowerment



irreducible diversity of
language

design heterogeneity

Networked Cultures of Information and Identities

- The humanities, like all disciplines, must recognize the shift to digitality. In doing so, it must begin to explore **the intermingling between natural and machine languages**, between analog and binary code.
- The forms of interaction produced by the interactive web necessitate **new ways of understanding** modern concepts such as authorship, identity, property, credit, expertise and knowledge.

Beyond Development

- Despite networked technologies that long predate the web, the liberal humanist subject continues to serve as the locus of identity, despite all evidence to the contrary.
- The proliferation of communications technologies threatens to **re-enforce rather than undermine** long-standing histories of colonialism and domination. Like economic imperialism, cultural imperialism displaces heterogeneity and complexity with mechanistic, undifferentiated, essentializing approaches. These approaches extend not just to technology, but information, knowledge and what constitutes 'understanding'.

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