Document Acts and the Ontology of Social Reality

Barry Smith

March 16, 2016

Massively Planned Social Agency

Philosophers of language have concentrated on the speech acts involved in simple conversations among friends sharing common goals

Large-scale social institutions require communication across time and space and between persons who have conflicting goals

Hypothesis: Documents – and thus document acts – are indispensable to the workings of large-scale social institutions

Some examples of documents

Made of paper		Not made of paper	
novel	license	clay tablet	gravestone
newspaper	dollar bill	car license plate	film credits
recipe	diploma	policeman's badge	street name
map	contract	traffic sign	clock
journal article	will		sundial
bus ticket	blueprint		

Some major types

- Literary document
- Journalistic document
- Scientific document
- Legal document
- Financial document
- Identity Document

What you can do with any (paper) document

- Burn it
- Lose it
- Throw it away
- Give it away
- Shelve it
- Steal it

You can’t steal a speech act

What can you do with a literary document

(Write it)
Read it
Criticize it
Cite it
Recommend it
Index it
Publish it
Reprint it
Anthologize it
Recite it

what you can do with a document

vs.

what a document can do

- cite another document
- provide evidence
- document a command
- document a right (driver's license)
- document an obligation (IOU)
- serve as a medium of exchange

100
H3
FEDERAL RESERVE NOTE
JB 00000000 T
B2
UNITED STATES FEDERAL RESERVE SYSTEM
Secretary of the Treasury.
Treasurer of the United States.
100
FRANKLIN
ONE HUNDRED DOLLARS
THE UNITED STATES OF AMERICA
THIS NOTE IS LEGAL TENDER FOR ALL DEBTS, PUBLIC AND PRIVATE
JULY 4, 1776.
100
H1
JB 00000000 T
SERIES 2009
100

Document acts for a scientific document

- Test it
- Implement it
- Use as source of evidence
- Use as source of hypotheses …
- Revise it
- Edit it
- Review it prior to publication
- Accept it for publication
- Reject it for publication

Some examples

Made of paper

novel

textbook

newspaper

advertising flier

recipe

map

business card

clock dial

compas dial

scientific journal article

license

dollar bill

degree certificate

deed

contract

will

receipt

statement of accounts

medical consent form

Not made of paper

clay tablet recording outcome of litigation

e-document

electronic health record

movie clapper

stock market ticker

car license plate

policeman's badge

advertising hoarding

gravestone

hallmarked silver plate

film credits

exterior signage on buildings

sundial

We will focus here on the class of legal and financial (roughly: time-sensitive) documents

of importance e.g.

- in security (identification documents)
- in commerce
- in law

OED defines ‘document’

1., 2. Teaching, lesson learned (cf. *doctor, docile*, *docent*)

3. That which serves to show, point out, or prove something; evidence, proof.

4. Something written, inscribed, etc., which furnishes evidence or information upon any subject, as a manuscript, title-deed,

tomb-stone, coin, picture, etc.

Some *processes* in the social realm

- In 2007, a bank in Florida lends you $1 million
- You buy a beach condo for $1 million
- The title to the condo is deposited with the bank as security on your loan

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- In 2008, the value of your condo collapses
- You owe the bank $1 million but your house is worth only $500,000
- You walk away from the loan and give the keys back to the bank

Some *objects* in the social realm

- The bank
- The condo
- The price you paid in 2007
- The price you could get in 2008
- Your mortgage
- Your mortgage contract
- Your signature on the mortgage contract
- Your breaching of the mortgage contract
- The value of the mortgage in 2007

Some ontological questions

- What is a debt?
- What is a mortgage?
- What is a mortgage contract?
- What is a signature?
- What is a credit card?
- What is a credit card number?

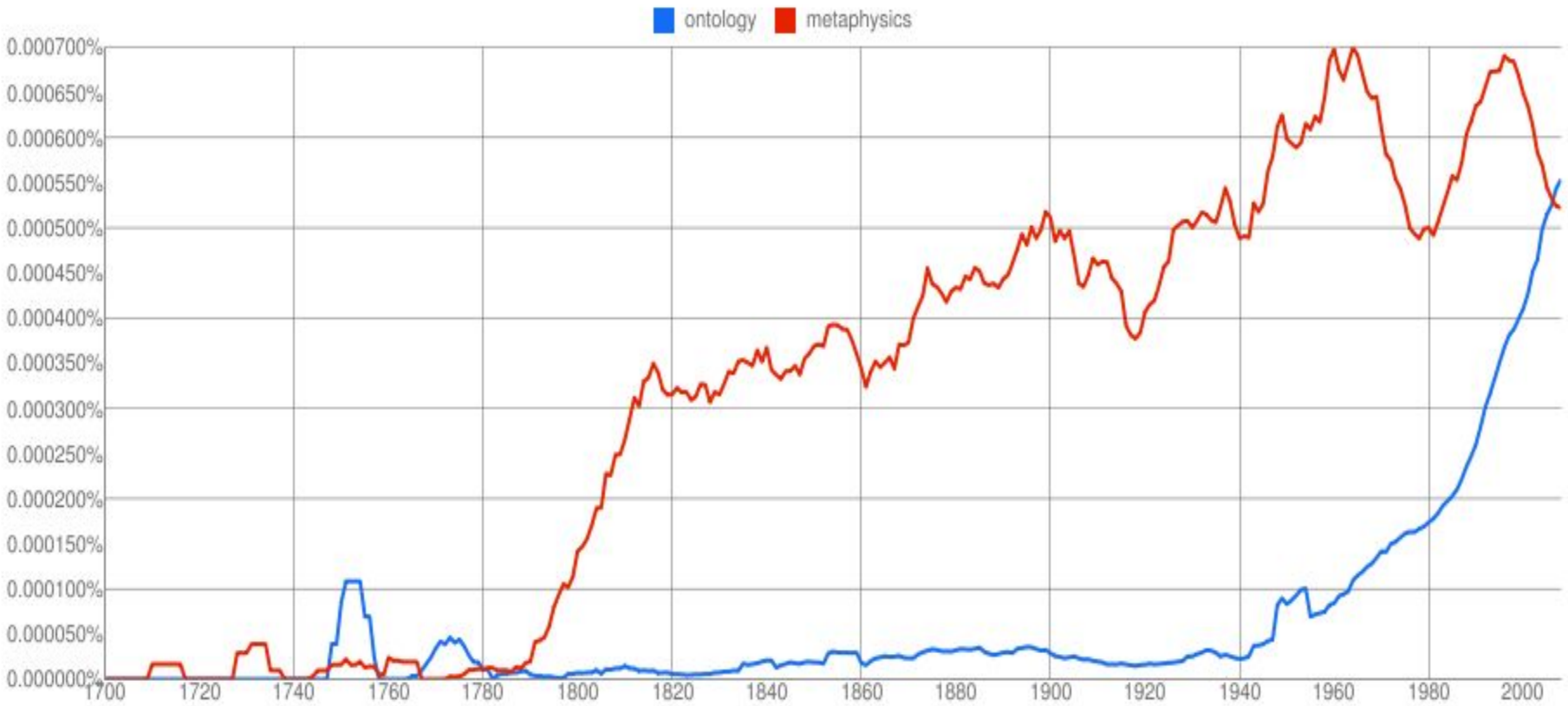
Why do Plato and Kant have no answers to such questions?

Google labs Books Ngram Viewer

Graph these **case-sensitive** comma-separated phrases: ontology,metaphysics

between 1700 and 2008 from the corpus English with smoothing of 3 .

Search lots of books



Search in Google Books:

1700 - 1847	1848 - 1996	1997 - 2000	2001 - 2004	2005 - 2008	ontology
1700 - 1829	1830 - 1960	1961 - 1975	1976 - 1993	1994 - 2008	metaphysics

Systems of mutually correlated claims and obligations

are essential to the workings of societies both large and small

compare how traffic laws are essential to the workings of roads

John Searle

The Searle Thesis

Through the performance of speech acts (acts of promising, marrying, accusing, baptising) we *change the world*

- by bringing into being claims, obligations, rights, relations of authority, debts, permissions, names, …

How do the obligations created by speech acts

- hold (large and small) societies together over the long term?

In the local case, when you make a promise

your obligation is tied to psychological factors: memories, expectations, your desire to preserve your good name

But what about the non-local case?

Hernando de Soto

Institute for Liberty and Democracy, Lima, Peru

The de Soto Thesis

Documents and document systems are mechanisms for creating the institutional orders of modern societies

The Mystery of Capital:
Why Capitalism Triumphs in the West and Fails Everywhere Else,
New York: Basic Books, 2000

With the invention of *documented* claims and obligations

- a new dimension of socio-economic reality comes into existence:

  bank accounts, stocks, shares, bonds, mortgages, credit cards

These form enduring social networks – document systems – of entirely new types

Hernando de Soto

- first recognized the pivotal role of documents in the ontology of socio-economic reality
- documents enable
  - new types of distributed ownership through stocks, shares, pensions
  - new types of legal accountability
  - new types of business organization

What document act theory is about

- the social and institutional (deontic, quasi-legal) *powers* of documents
- the *social interactions* in which documents play an essential role
  - for example allowing post-mortem instructions
- the *enduring institutional systems* to which documents belong

Basic distinctions

- document as stand-alone entity vs. document with all its different types of proximate and remote attachments
- document template vs. filled-in document
- document vs. the piece of paper upon which it is written/printed
- authentic documents vs. copies, forgeries

What happens when you *sign* your passport?

- you **initiate** the validity of the passport
- you **attest** to the truth of the assertions it contains (autographic)
- you provide a **sample pattern** for comparison (allographic)

Three document acts for the price of one

Passport acts

- I use my passport to prove my identity
- You use my passport to check my identity
- He renews my passport
- They confiscate my passport to initiate my renunciation of my citizenship

The creative power of documents

title deeds *create* property

stock and share certificates *create* capital

examination documents *create* PhDs

marriage licenses *create* bonds of matrimony

bankruptcy certificates *create* bankrupts

statutes of incorporation *create* business organizations

charters *create* universities, cities, guilds

The creative power of documents

insurance certificates
treaties
patents
licenses
summonses
membership cards
divorce decrees
edicts of parliament

The creative power of documents

document *creates* role
(physician's license creates *physician*)

holder of role *creates* document
(physician creates *sick note*)

documents issued by an authority **within the framework of a legally valid institution**

vs.

documents issued by an authority extralegally **on its own behalf** (US *Declaration of Independence*)

Identity documents

- create identity (and thereby create the possibility of identity theft)
- what is the ontology of identity?
- what is the epistemology of identity (of the technologies of identification)?

Africa

Hernando de Soto

Institute for Liberty and Democracy, Lima, Peru

Bill Clinton:

"The most promising anti-poverty initiative in the world"

All of the document types we now take for granted

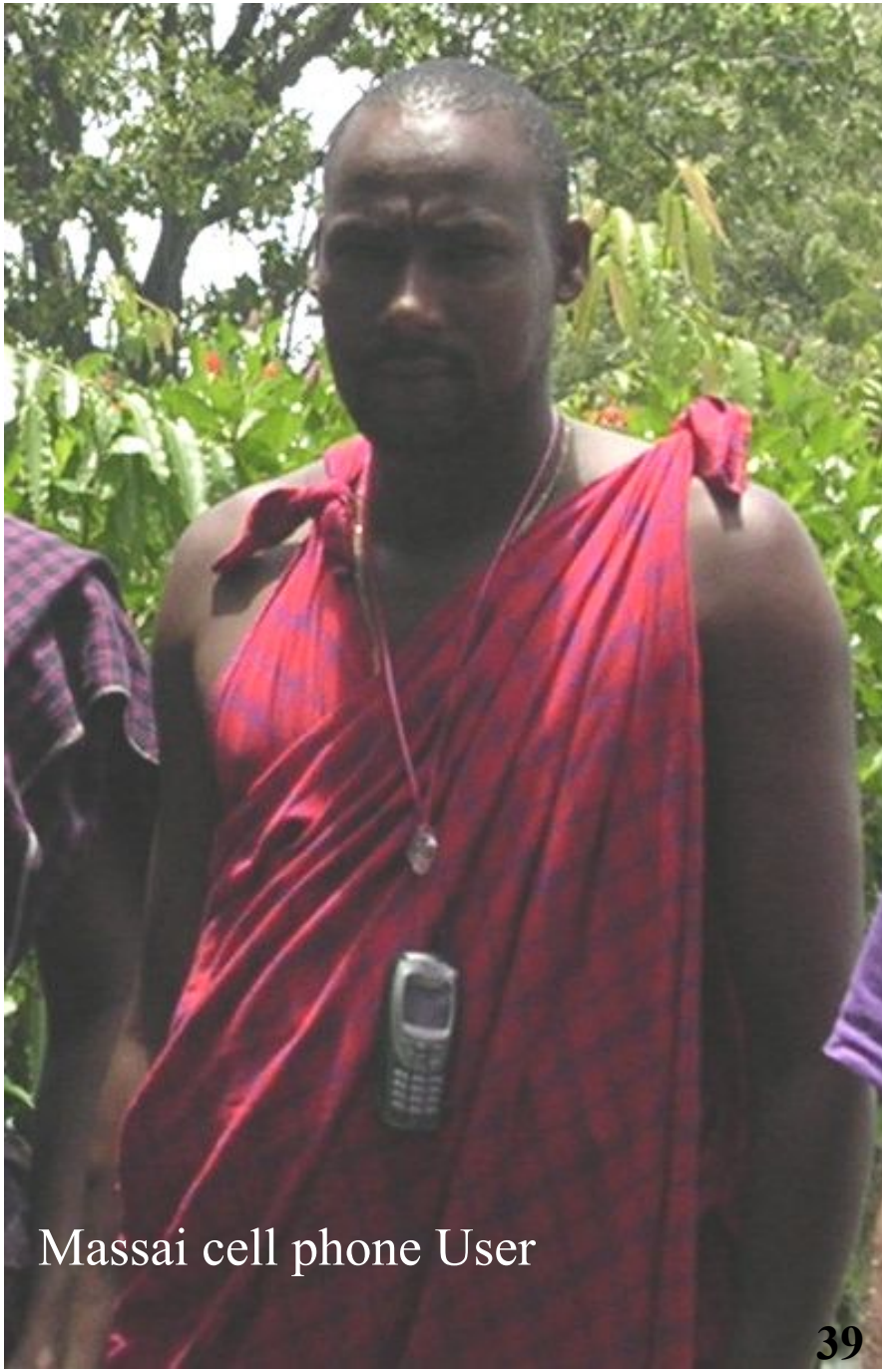
- and all of the processes and institutions in which documents are involved
- had to be invented – for instance *letters of credit* were *invented* in Florence, Venice Genoa in the Middle Ages

de Soto: They are being reinvented in Africa today

In Africa: the realm of extra-legal (spontaneously created) law

- In Tanzania, villages are relatively isolated from the influences of big-city law
- but this does not mean that they are free of legal-commercial activities and of associated institutions
- and of rudimentary documents

extralegal cell phone renting
and supply of pre-paid call time

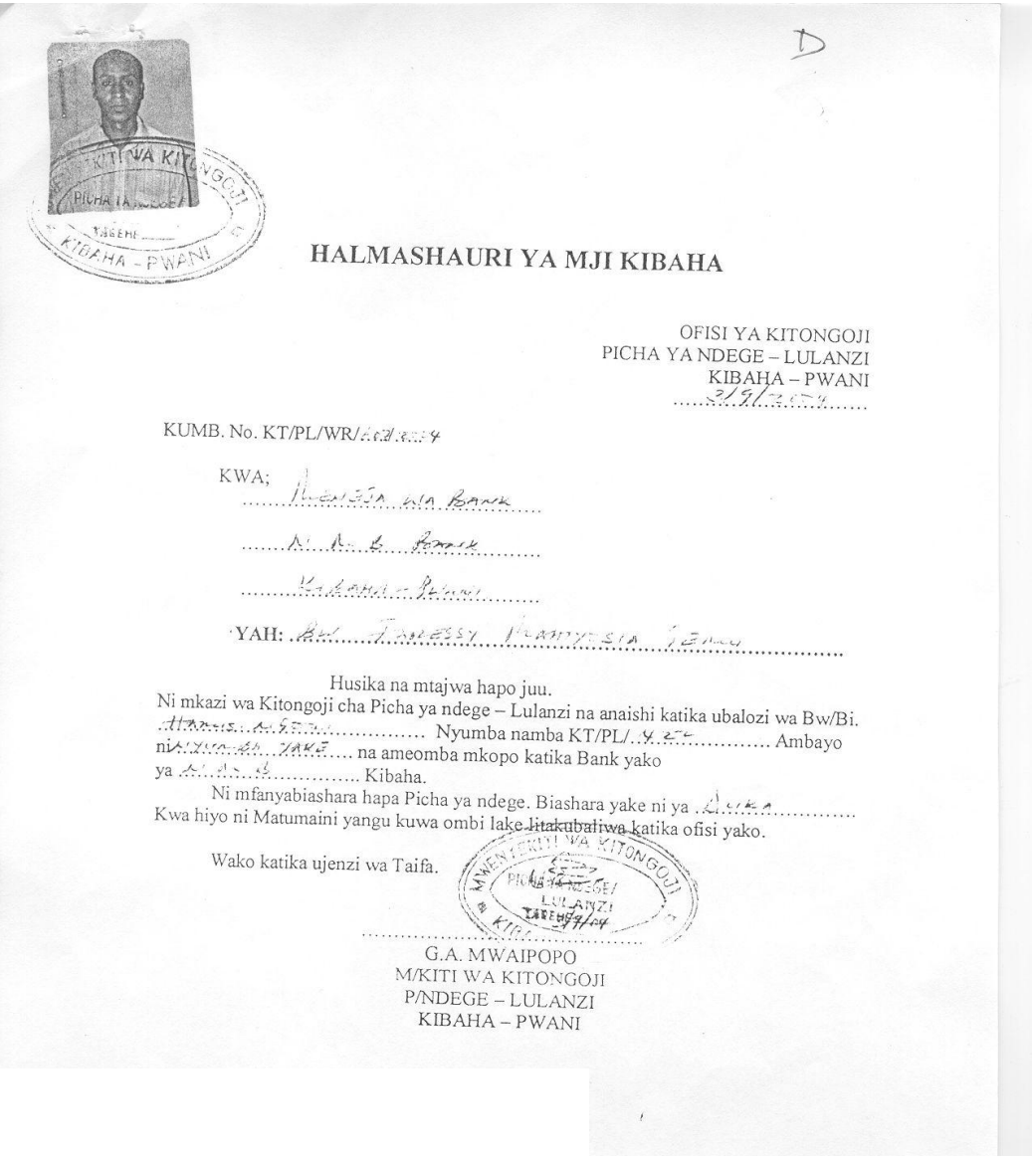


Massai cell phone User

Mwenyekiti

The Mwenyekiti (or democratically elected village chairman in Tanzania)

identification



HALMASHAURI YA MJI KIBAHA

OFISI YA KITONGOJI
PICHA YA NDEGE – LULANZI
KIBAHA – PWANI

KUMB. No. KT/PL/WR/

KWA;

YAH:

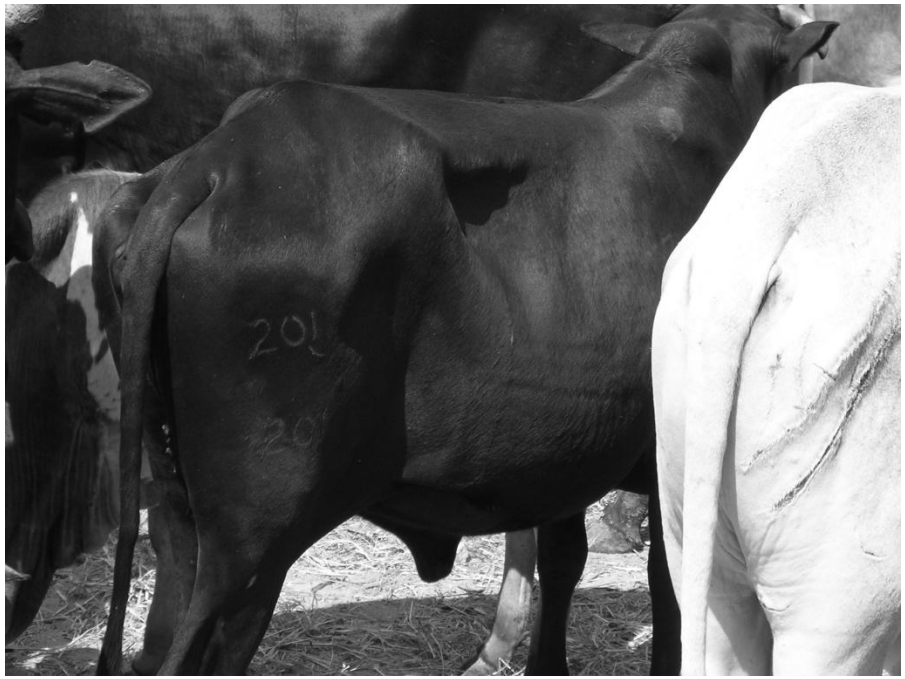
Husika na mtajwa hapo juu.
Ni mkazi wa Kitongoji cha Picha ya ndege – Lulanzi na anaishi katika ubalozi wa Bw/Bi. Nyumba namba KT/PL/ Ambayo ni na ameomba mkopo katika Bank yako ya Kibaha.
Ni mfanyabiashara hapa Picha ya ndege. Biashara yake ni ya
Kwa hiyo ni Matumaini yangu kuwa ombi lake litakubaliwa katika ofisi yako.

Wako katika ujenzi wa Taifa.

G.A. MWAIPOPO
M/KITI WA KITONGOJI
P/NDEGE – LULANZI
KIBAHA – PWANI

Document in which a *Mwenyekiti* from the Kibaha area certifies the identity of an individual from his village. Both photograph and signature are authenticated with an official stamp.

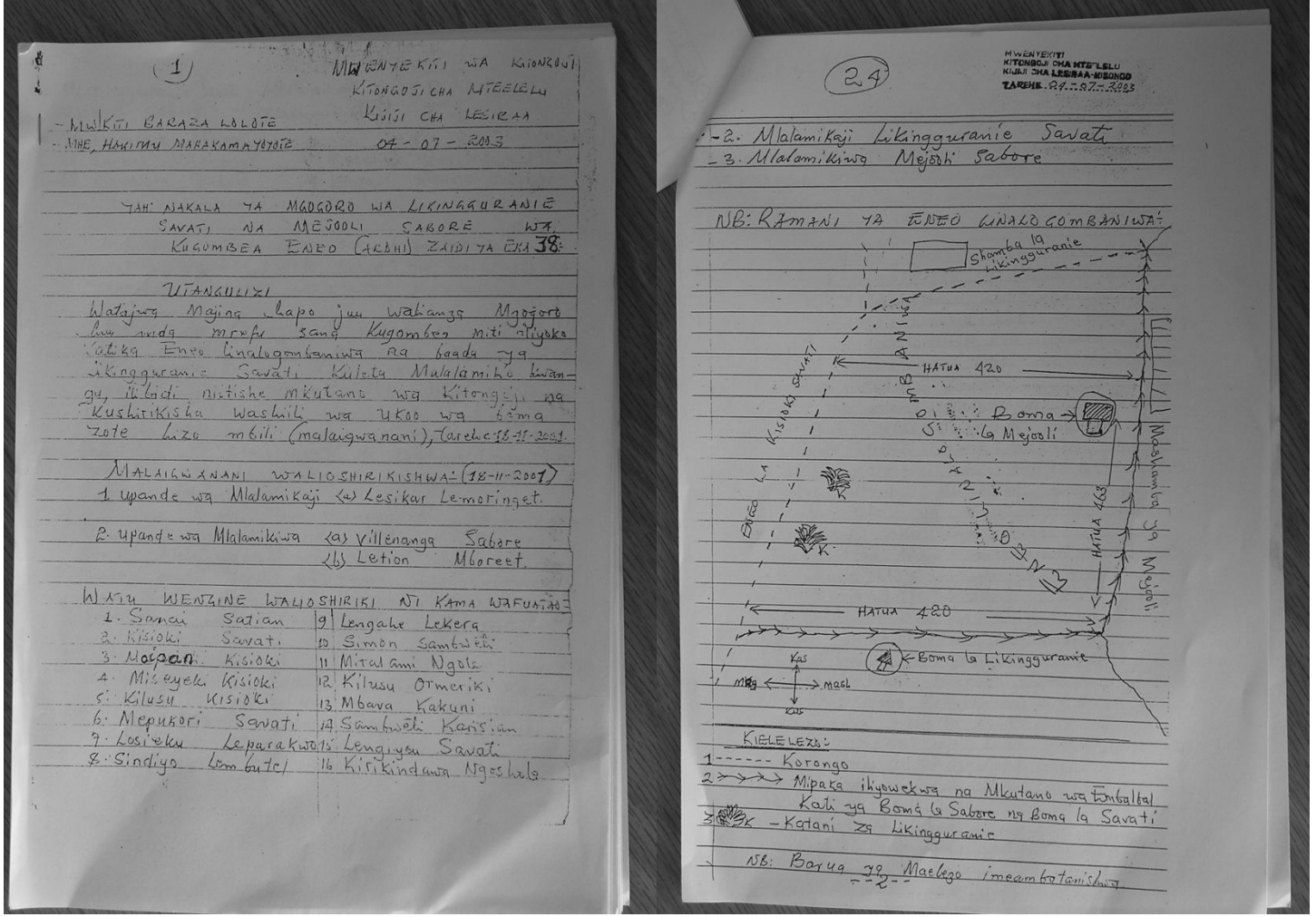
identification



Marks used to identify ownership of the cattle at an auction market in Dodoma.
The cattle identification by branding serves as the basis for a formal pledge system.

adjudication

Elders engaged in dispute resolution in Kisongo (Tanzania) dealing with conflicts about family matters, parcel boundaries and other property issues. Evidence is brought from witnesses and community members.



Documentation of the resolution of a dispute over land in the Arusha area and of the property rights thereby established.
A council of notable elders is selected as judges and they follow established rules for the hearing, for presenting and processing evidence before the community.

property right

- The difference between a piece of land and property is that property can be set out in a written document with determinate meaning. This **document creates and establishes the right, which ties owner to physical asset in an enduring way.**
- The system of such documents creates a new abstract order

registration

The Mwenyekiti keeps records of births deaths, contracts ..., provides written and unwritten proof of customary rights of occupancy, participates in real estate transactions as witness

registration

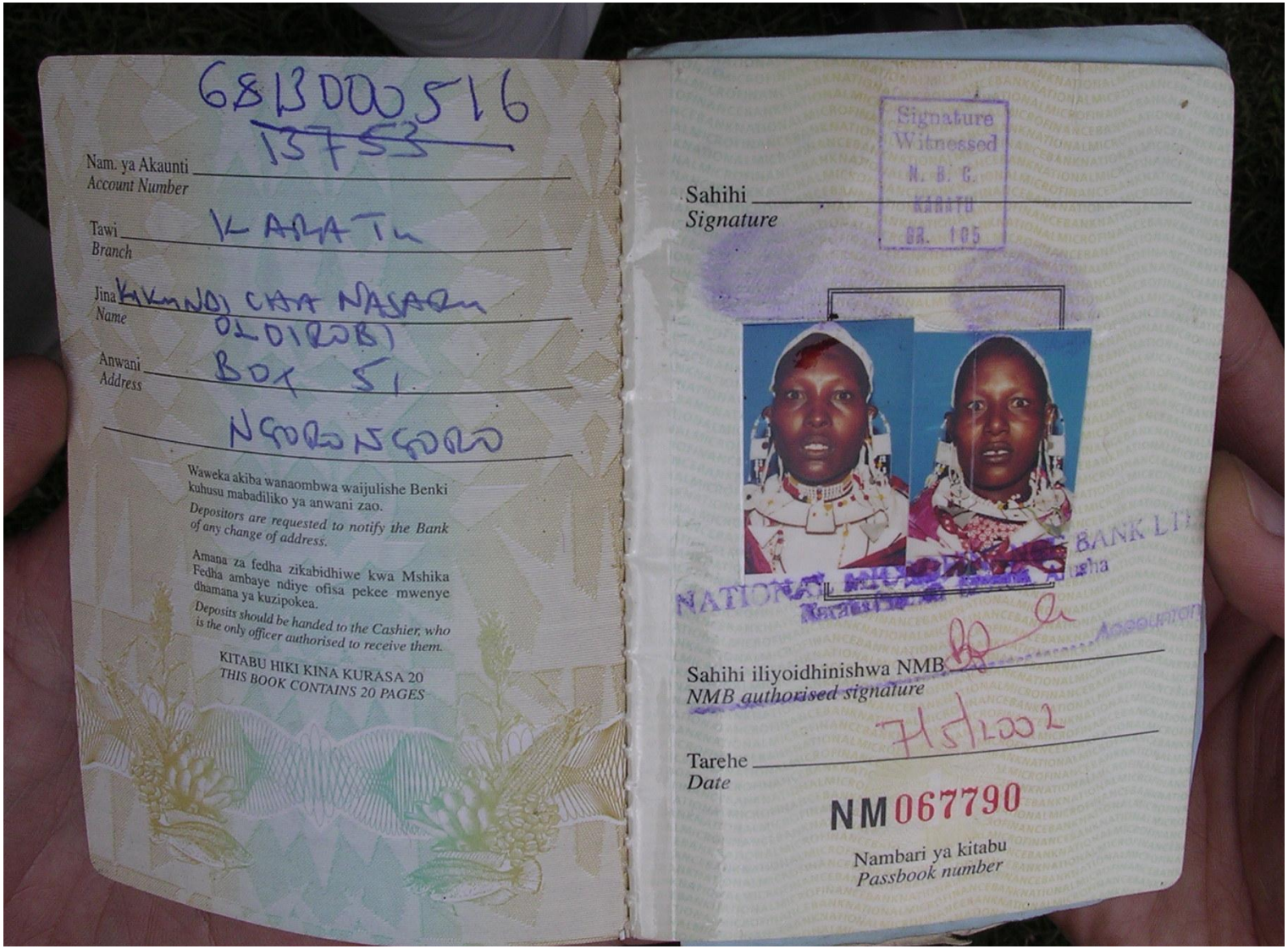
- registration makes documents permanently accessible, providing in one single source records of the information required to know **who owns what**
- without this information, the combination and mobilization of assets is risky, and it is impossible to apply legal provisions against fraud and theft.

registration

registration

- Paper documents serve as **filaments that bind** different elements of social and institutional reality in a way which leads to the creation of new types of value.
- A **network of social relations** is created by the network of cross-referenced and **cross-attached documents**. In this way, the registry of documents forms a mirror of the network of legal and property relationships.

Anchoring to reality



Anchoring

- a photograph alone is not sufficient to establish your identity: it must appear in the right place in the right sort of document that has been marked in the right sort of way by signatures, counter-signatures, stamps, ID numbers

Blockchain

- a distributed database based on the bitcoin protocol that maintains a continuously growing list of data records hardened against tampering and revision, even by its operators.
- blocks record and confirm when and in what sequence transactions enter and are logged in the block chain; blocks are created by users known as ‘miners’ who use specialized software to create blocks.

Blockchain decentralization

- Every node in a decentralized cryptocurrency system has at least a partial copy of the entire block chain. This avoids the need to have a centralized database.
- Cryptocurrencies use various timestamping schemes to avoid the need for a trusted third party to timestamp transactions.

Anchoring before Bitcoin

fingerprint

official stamp

photograph

bar code

cow brand-mark

car license plate

allow *cross-referencing* to documents

The Mystery of Capital

when you have legal title to your house you can

- use your house as an address for receiving public utility services such as mail and electricity
- buy insurance on your house
- use your house as collateral on a loan – your house allows you to live in it and at the same time use its value to build a factory

But what happens when it all breaks down?

The story of what happens

- In 2007, a bank in Florida lends you $1 million
- You buy a beach condo for $1 million
- The title to the condo is deposited with the bank as security on your loan

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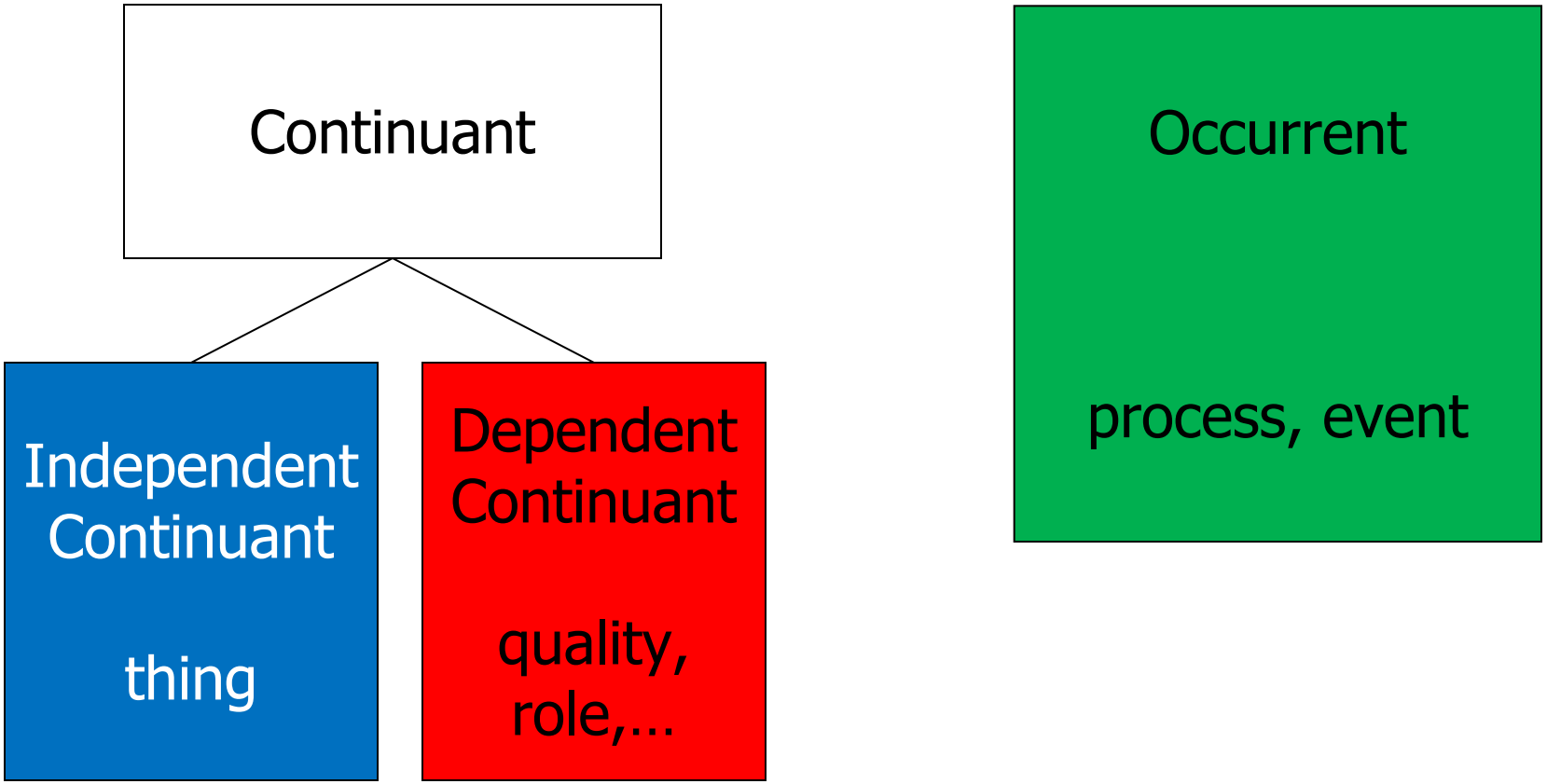
- In 2008, the value of your condo collapses
- You owe the bank $1 million but your house is worth only $500,000
- You walk away from the loan and give the keys back to the bank

What sorts of entities are involved in this story?

- The bank (?)
- The condo, the keys
- The price you paid in 2007
- The price you could get in 2008
- Your mortgage contract (?)
- Your signature on the mortgage contract (?)
- Your mortgage (pre-default)
- Your commitment to repay the mortgage
- The same mortgage (post-default)

Basic Formal Ontology



The occurrent story

- In 2007, a bank in Florida lends you $1 million
- You buy a beach condo for $1 million
- In 2008, the value of your condo collapses: you owe the bank $1 million but your condo is worth only $500,000
- You walk away from the loan and give the keys back to the bank

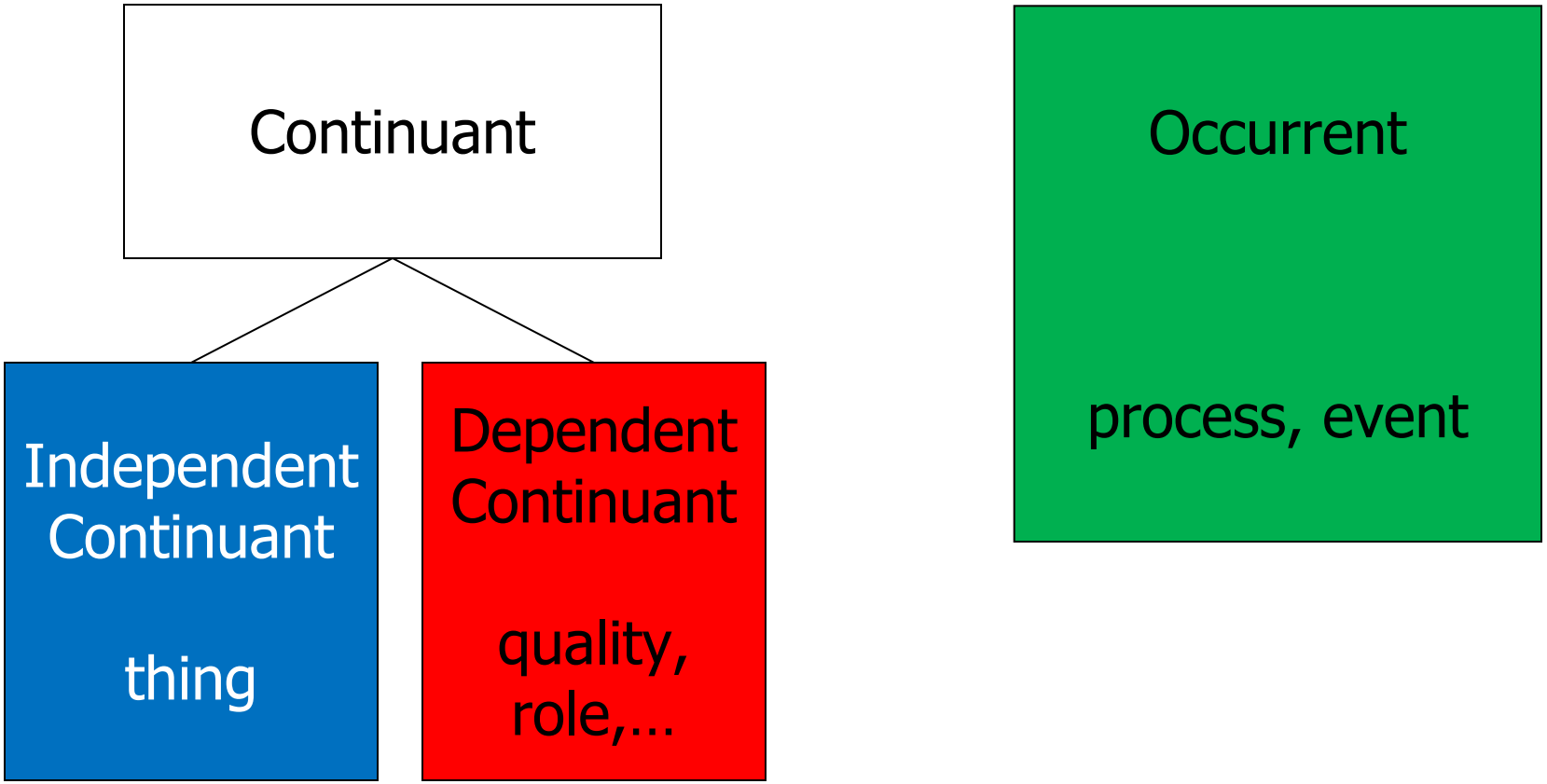
the dependent and *independent continuants involved in this story*

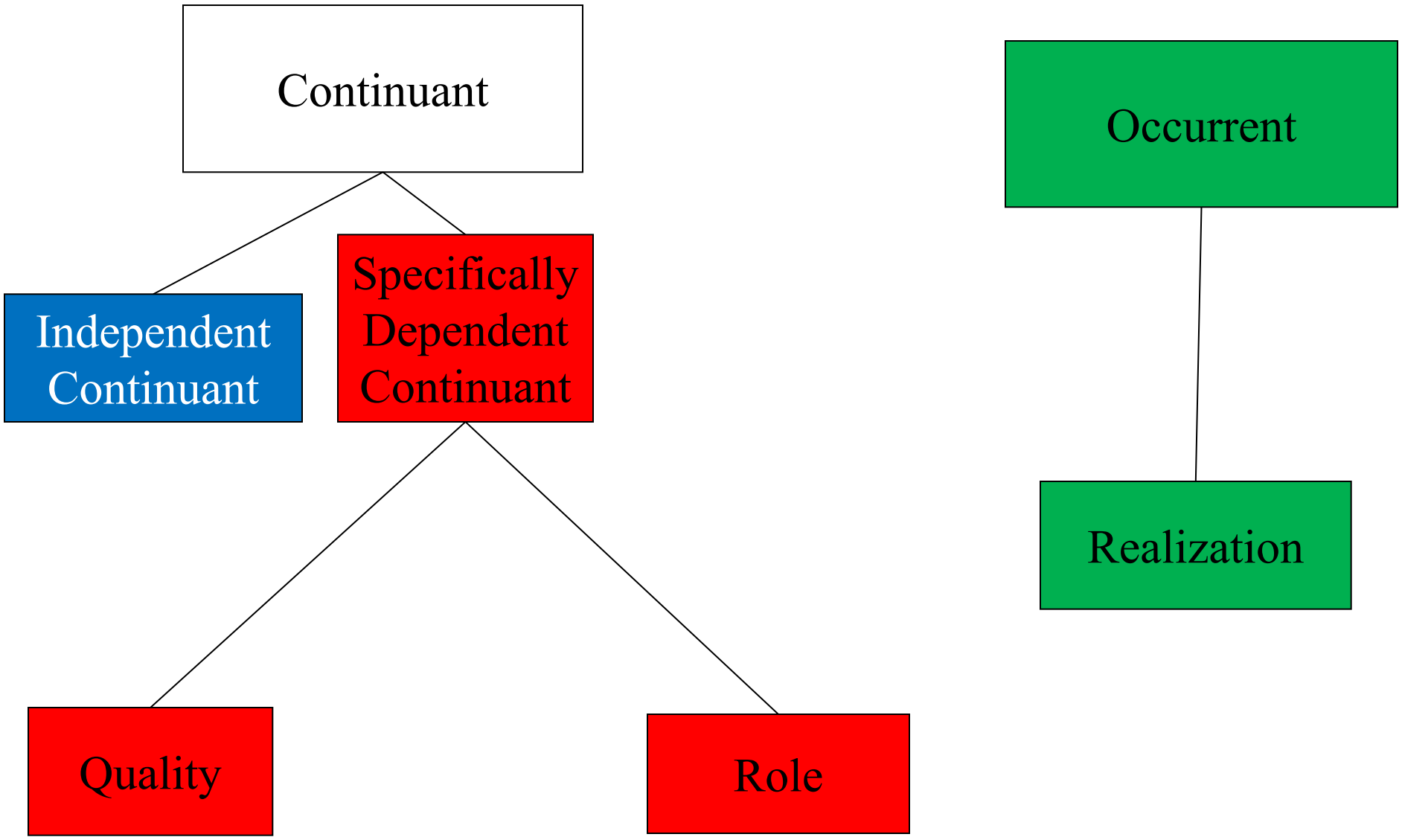
- The bank
- The condo, the keys
- The price you paid in 2007
- The price you could get in 2008
- Your mortgage contract
- Your signature on the mortgage contract
- Your mortgage (pre-default)
- Your commitment to repay the mortgage
- The same mortgage (post-default)

The aftermath

- Your mortgage was bundled with 100s of other mortgages to form a collateralized debt obligation (CDO)
- which was sold to investors
- Some CDOs were bundled to form CDO^2s, CDO^3s, ... CDO^ns.
- In 2008 this whole family of investment vehicles collapsed in value

Basic Formal Ontology




Continuant
Occurrent
Independent Continuant
Specifically Dependent Continuant
Realization
Quality
Role

An ontological problem: what is a bank loan?

On the one hand it is something like a *mathematical structure*.

Yet its existence is *tied to time and change.*

Plato would have regarded such a combination of properties as something impossible.

(Cf. Mackie's argument from metaphysical queerness)

The ontology of the bank loan

- CDOs seem to fall outside the standard philosophical dichotomies of
  - physical vs. mental
  - concrete vs. abstract
  - *ens rationis vs. ens realis*
- They are in some sense *normative entities* ('obligations'), that can be bought and sold, aggregated and stored, spliced and diced, engineered and re-engineered

The ontology of toxic assets

- In 2007, I bundle your mortgage with 100s of other mortgages and sell the result – a 'collateralized debt obligation' (CDO) – to investors.
- This first CDO is supported directly by mortgages
- It is bundled with 100s of other CDOs to create a CDO^2, backed not by mortgages, but by other CDOs
- ... and so on, with CDO^3, ... CDO^n, *ad indefinitum*

More ontological questions

- What is a CDO?
- A pattern of blips on computers?
  - Can you buy and sell a *pattern of blips*?
- Is it made of molecules? Can it stand in physical relations of cause and effect?

No; It is more like a *mathematical structure*.

Yet its existence is *tied to time and change*.

Already Plato would have regarded such a combination of properties as something impossible.

The ontology of the CDO

- CDOs seem to fall outside the standard philosophical dichotomies of
  - physical vs. mental
  - concrete vs. abstract
  - *entia rationis vs. entia realis.*
- They are in some sense *normative entities* (‘obligations’), that can be bought and sold, aggregated and stored, spliced and diced, engineered and re-engineered

Wednesday, March 25, 2009 New York 42°|31°

THE WALL STREET JOURNAL. | OPINION

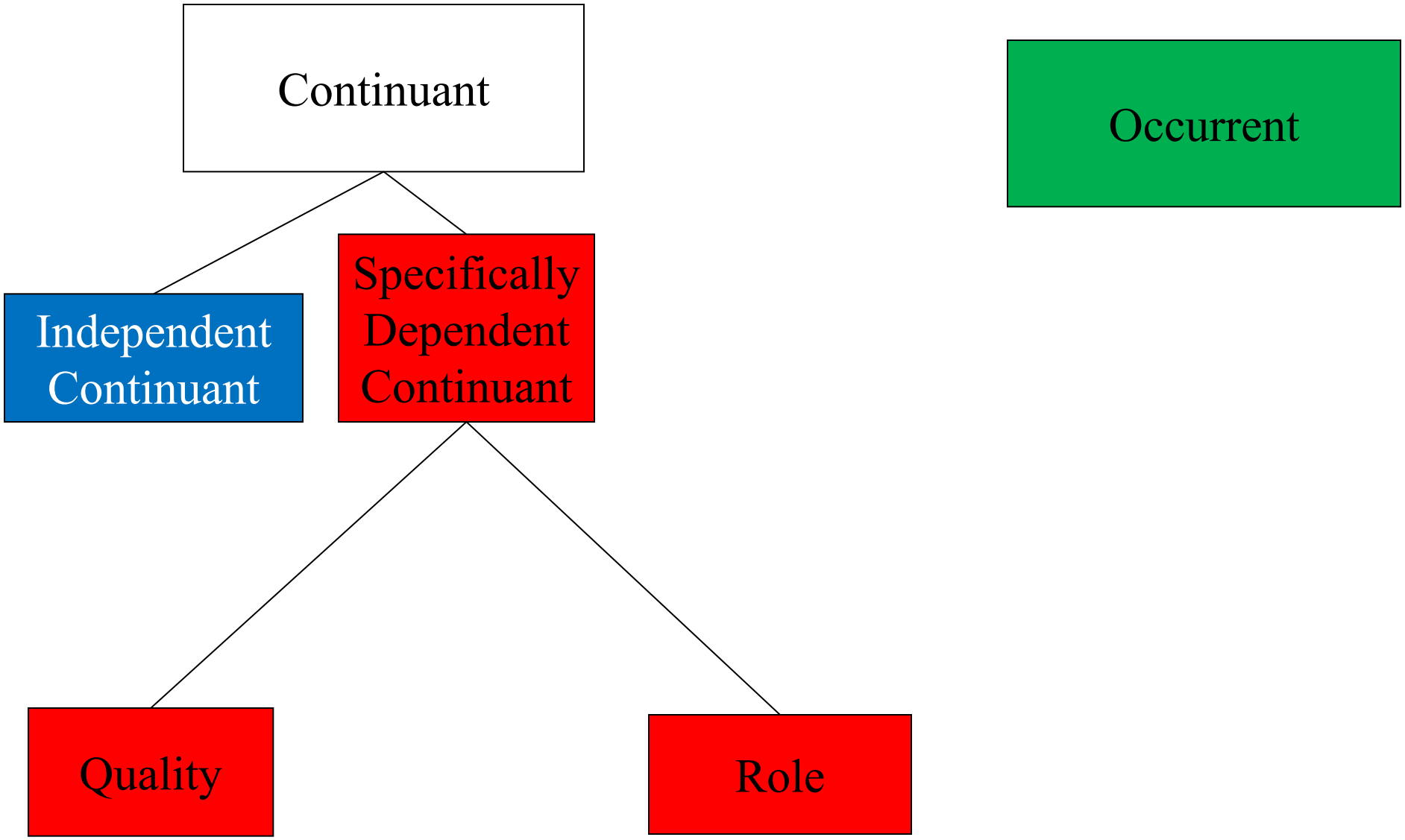
OPINION | MARCH 25, 2009

Toxic Assets Were Hidden Assets

We can't afford to allow shadow economies to grow this big.

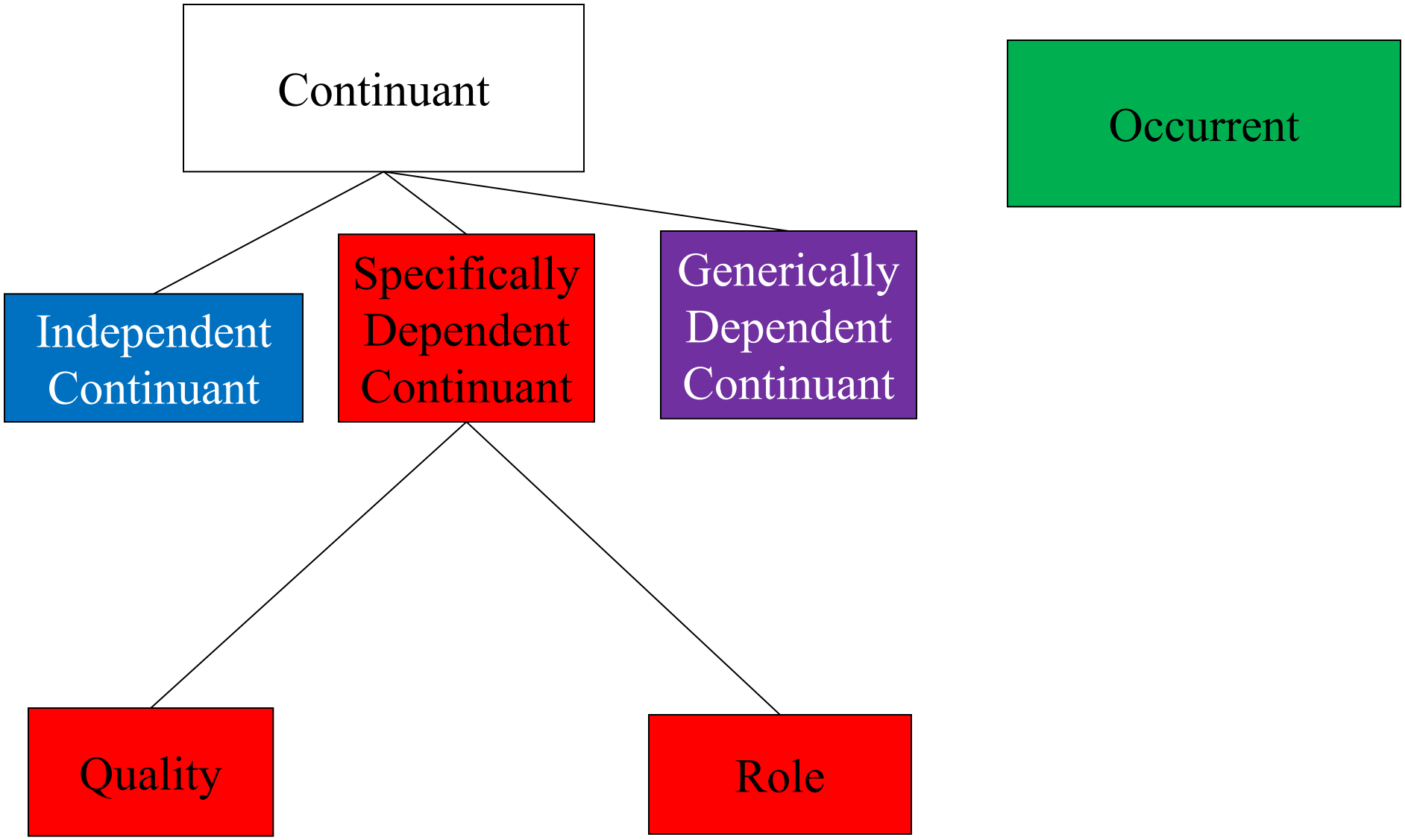
By HERNANDO DE SOTO

The Obama administration has finally come up with a plan to deal with the real cause of the credit crunch: the infamous "toxic assets" on bank balance sheets that have scared off investors and


Continuant
Occurrent
Independent Continuant
Specifically Dependent Continuant
Quality
Role

Another ontological question: what is a credit card number?

- Not a mathematical entity
- A credit card number is a special sort of cultural artefact


Continuant
Occurrent
Independent Continuant
Specifically Dependent Continuant
Generically Dependent Continuant
Quality
Role

What is a credit card number?

– not a physical object taking part in causal relations

– but a historical object, with a very special provenance, standing in relations analogous to those of ownership, existing only within a nexus of working financial institutions of specific kinds

– something like an abstract key fitting into a global system of (institutional) locks

Is document act theory really something new?

Austin, Searle *et al.* all mention that speech acts can be performed with documents (in French speech acts are called '*actes du langage*')

But nowhere do we find discussions of how documents – statutes, charters, bills, titles, testaments, treaties – are issued, signed, counterstamped, stamped, sealed, ratified, registered, annulled, executed, challenged, revised, reviewed, …

and of how all of these kinds of acts are indispensable to hold complex societies in being

Information vs. Information Artifact

‘information’ – mass noun (Shannon and Weaver)

‘information artifact’ – count noun (Information Artifact Ontology)

Information Artifacts in Science

protocol
database
theory
ontology
gene list
publication
result
...

Information Entity (labeling)

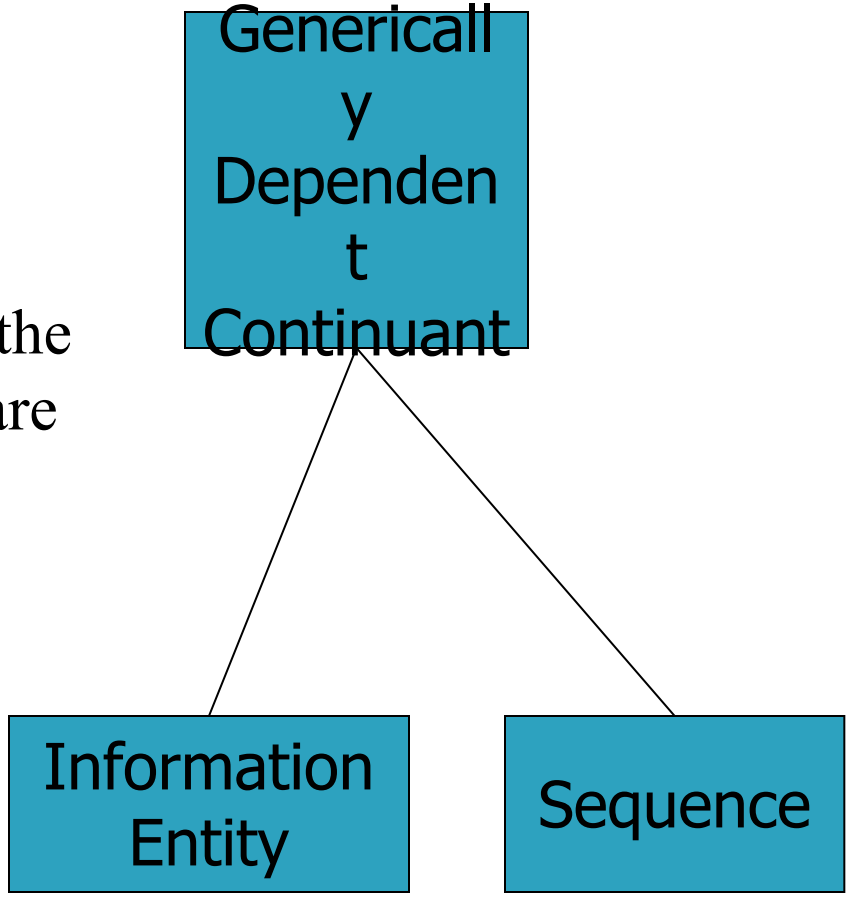
serial number
batch number
grant number
person number
name
address
email address
URL
...

Generically Dependent Continuants

if one bearer ceases to exist, then the entity can survive, because there are other bearers (copyability)

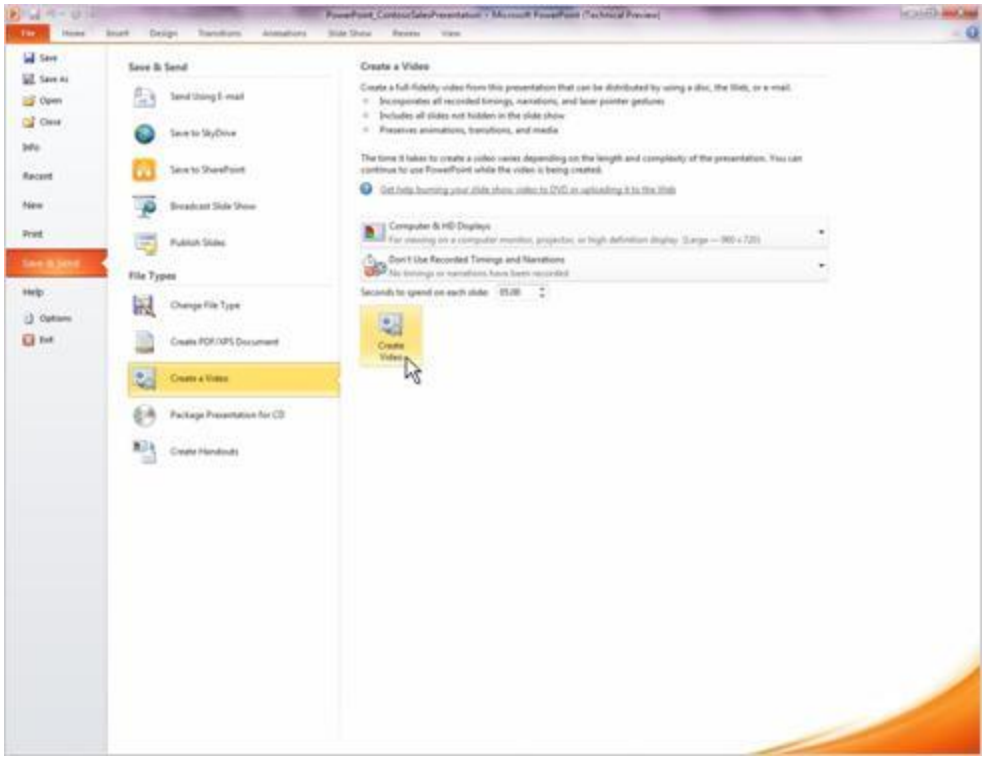
the pdf file on my laptop

the DNA (sequence) in this chromosome



Information Artifact Ontology

http://code.google.com/p/
information-artifact-ontology/


Save & Send
Send Using E-mail
Save to SkyDrive
Save to SharePoint
Broadcast Slide Show
Publish Slides
File Types
Change File Type
Create PDF/XPS Document
Create a Video
Package Presentation for CD
Create Handouts
Create a Video
Create a full-fidelity video from this presentation that can be distributed by using a disc, the Web, or e-mail.
Incorporates all recorded timings, narrations, and laser pointer gestures
Includes all slides not hidden in the slide show
Preserves animations, transitions, and media
The time it takes to create a video varies depending on the length and complexity of the presentation. You can continue to use PowerPoint while the video is being created.
Computer & HD Displays
Don't Use Recorded Timings and Narrations
Seconds to spend on each slide:
Create Video

Software and Other Cultural Artifacts

Barry Smith

Why the ontology of software is important

An example:

Digital Rights Management

Is Word 3.1 the same piece of software as Word 3 ?

Digital Object Identifiers (DOI)

creator =def. A party contributing to the making of an original creation, in whole or in part

creation =def The output of creative activity

input =def A pre-existing entity which participates in a relation in a passive, qualifying or supportive role

original creation =def A creation without a source input

Indecs

The Mona Lisa is not an original creation – it used a certain lady as input

No painting is an original creation, since every painting involves the use of a paintbrush as input

Can we do better?

Searle's ontology of the social world

X counts as Y in context C

this man *counts as* a president

this building *counts as* a cathedral

this lump of stone *counts as* a statue

this piece of paper *counts as* a set of instructions to be executed after my death

Searle, *The Construction of Social Reality*, 1987

The *counts as* formula applies to occurrents also

this audio-acoustic blast *counts as* a promise

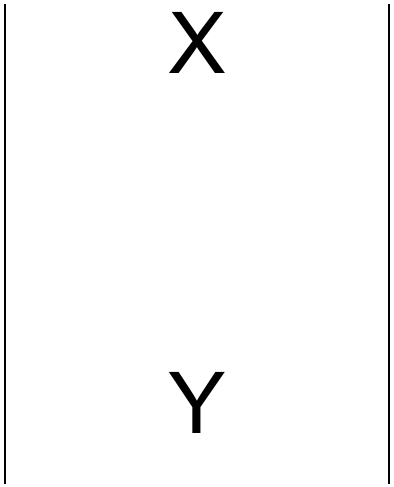
this smashing of a bottle of champagne *counts as* a naming of a ship

this lifting of the hand *counts as* making a bid

X counts as Y in context C

X and Y are one and the same part of physical reality

which fall under different descriptions



X counts as Y in context C

What about the money in your (electronic) bank account?

your money
blips in the computer

Turtles

It could not be that the world consists of institutional facts all the way down, with no brute reality to serve as their foundation.

Turtles

Searle: wherever a status-function is imposed there has to be something it is imposed upon

Eventually the hierarchy must bottom out in brute facts = phenomena whose existence is not a matter of human agreement.

The Construction of Social Reality:

all sorts of things can be money, but there has to be some physical realization, some brute fact

– even if it is only a bit of paper or a blip on a computer disk –

on which we can impose our institutional form of status function.

But

Does a blip on a computer disk really *count as* money?

Do we truly *impose status functions* on blips in computers?

Can we use blips in computers *to buy things with*?

representation

the money in your bank account is *represented by* blips in the bank's computer

Searle:

"On at least one point … the account I gave in [*The Construction of Social Reality*] is mistaken.

"I say that one form that money takes is magnetic traces on computer disks, and another form is credit cards."

Computer blips + credit cards

"Strictly speaking neither of these is money, rather, both are different *representations* of money."

The ontology of chess

A game of chess

physical movements of physical pieces of wood

A game of chess

physical movements of physical pieces of wood

A game of chess

thoughts

thoughts

physical movements of physical pieces of wood

A game of blind chess

thoughts

?

thoughts

A Game of Blind Chess

something non-physical

– the thoughts and utterances are not parts of the game (they are representations)

– what then is the game?

- some ideal Platonic pattern?
- nothing at all? (fictionalism)

A Game of Blind Chess

is something *non-physical*

something like: an abstract pattern, that is at the same time tied to specific players and to a specific occasion

and to the specific history of the planet

A Debt

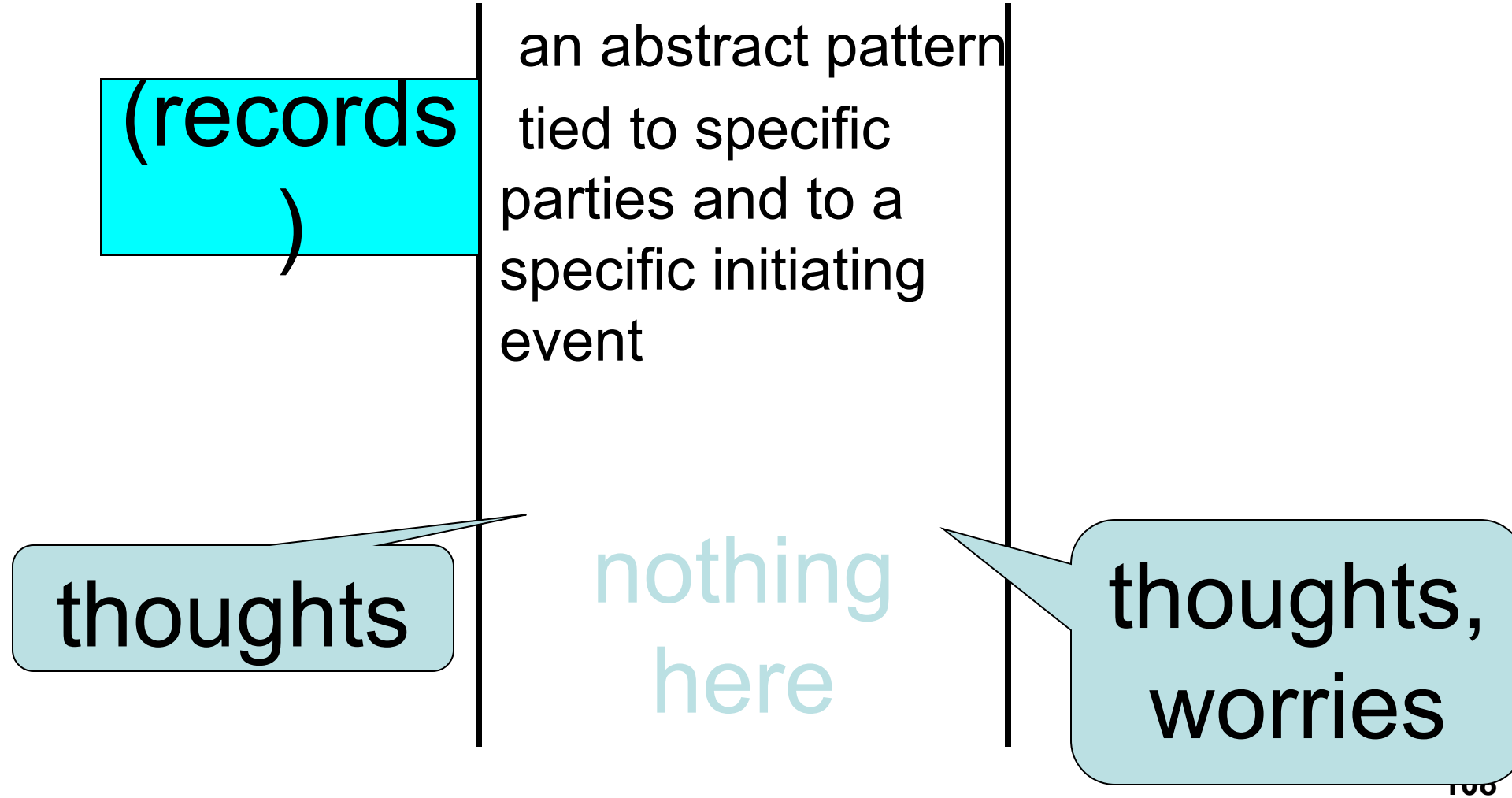
(records)

an abstract pattern tied to specific parties and to a specific initiating event

thoughts

thoughts, worries

A Debt


(records)
an abstract pattern tied to specific parties and to a specific initiating event
thoughts
nothing here
thoughts, worries

Two sorts of social reality

presidents, driving licenses, cathedrals, spoken promises, bids at auctions, …

debts, blind chess games, money in your bank account, …

= free-standing Y terms – no underlying physical X with which Y is identical

Free-Standing Y Terms

are entities of a third kind:

there are neither real, physical entities

nor abstract, Platonic entities existing outside time and space

but abstract entities tied to history and to specific contexts of human behavior

Free Standing Y Money

does not tarnish

does not burn

is not subject to physical processes

its existence in time rather has the form:

Three aspects of Platonism

1. abstract
2. uncreated
3. repeatable

debts, wills not repeatable

software, chess game repeatable

historico-cultural entities, often with quasi-mathematical properties

- we pool and collateralize assets
- we securitize loans
- we consolidate debt
- Social Security Numbers cannot tarnish and cannot burn

Homework: the ontology of [culturally created] numbers

Mathematical expressions are free-standing Y-terms

- mathematical theorems cannot tarnish and cannot burn

Roman Ingarden

The Literary Work of Art: Investigations on the Borderlines of Ontology, Logic and the Theory of Literature (1931)

marks of the literary work

it is created (thus not an abstract Platonic entity)

it can have copies

but it is not identical with any copy (a copy counts as a copy)

it is an ordered written sequence (a created pattern)

it can be read

the readings unfold in real time

the events represented unfold in represented time

some readings may be better (more faithful) than others

there may be a history of readings → the work itself has a life in real time (it is born, ignored, rediscovered ...)

marks of the work of drama

it may be physically performed

it may be mentally performed (I imagine a performance)

some performances may be better (more faithful) than others

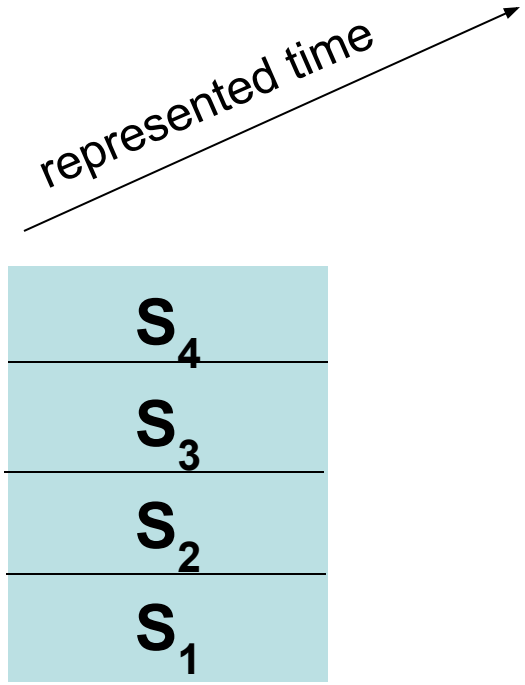
the dramatic work is not identical with any peformance

the dramatic work is not identical with any copy of the script

the literary work is a stratified pattern

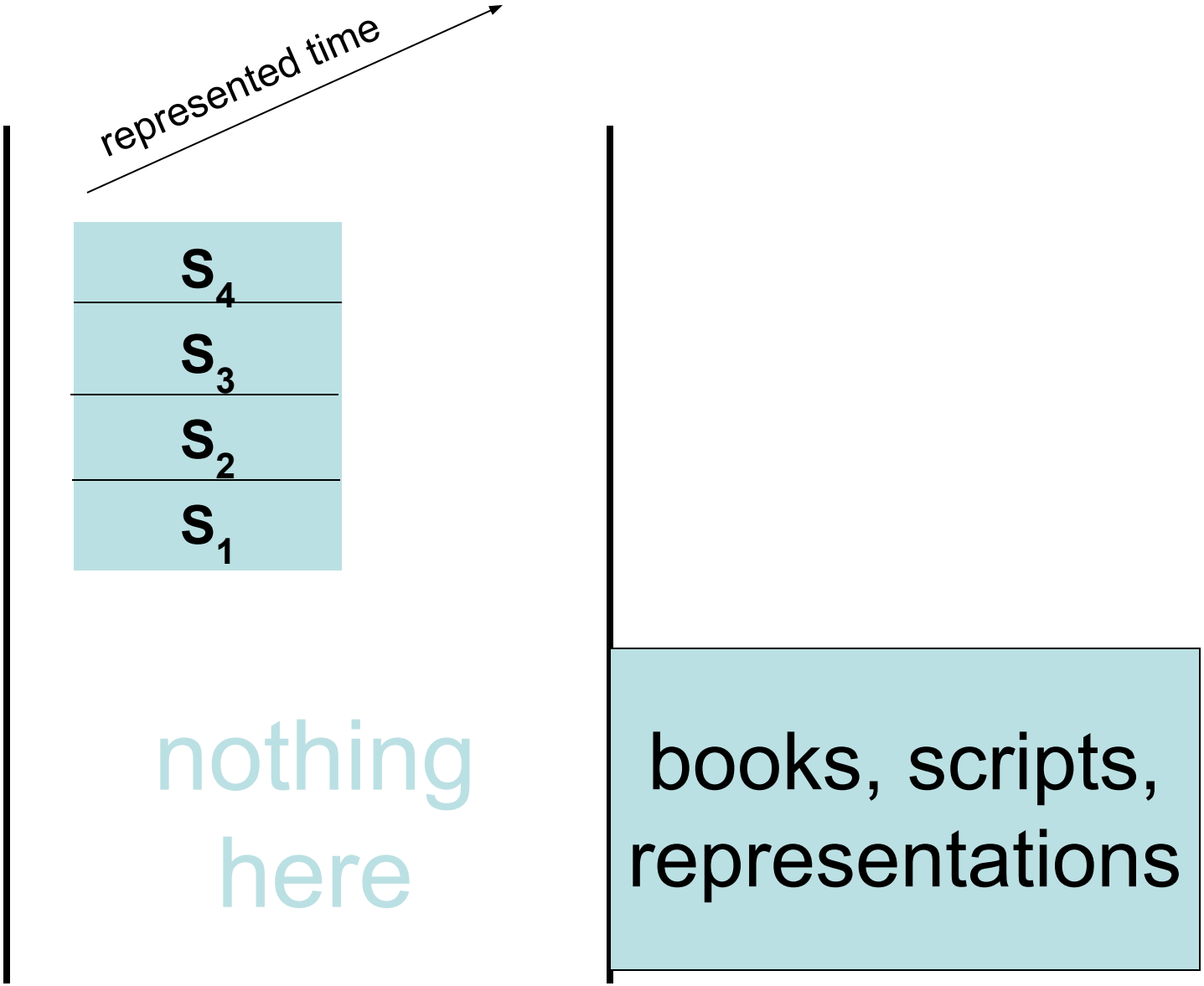
1. word sounds and phonetic formations of higher order
2. meaning units and higher-order meaning formations
3. schematized aspects (visual, auditory, or other aspects through which the entities represented in the work may be quasi-sensorially apprehended)
4 field of represented entities (the objects, events, states of affairs, etc., contributing to the plot)

with a quasi-temporal dimension



the dimension of represented time is related to but need not be isomorphic to the order of the words and sentences

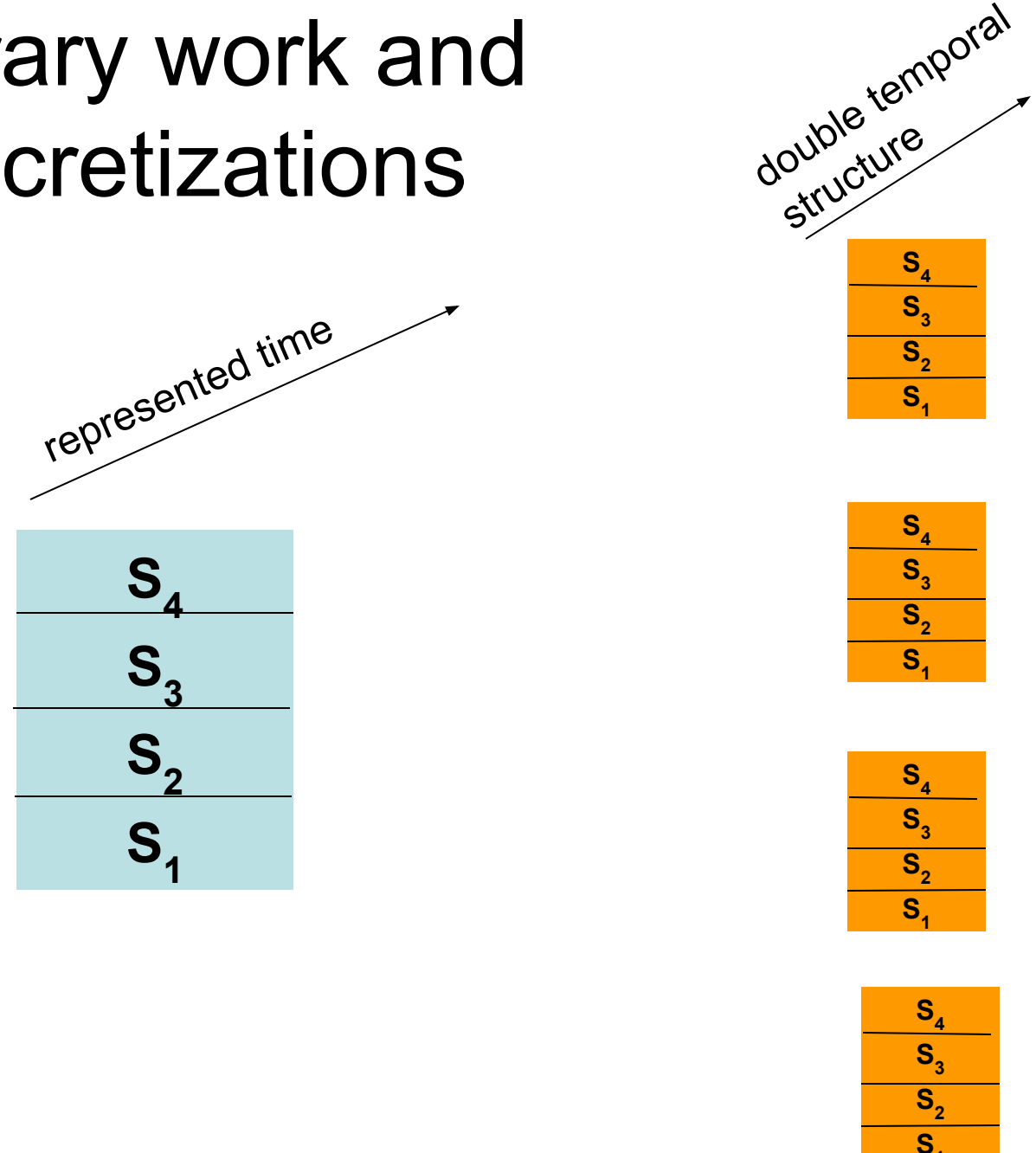
free standing Y-pattern



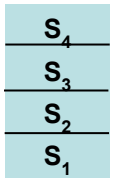
each *reading* yields a stratified pattern

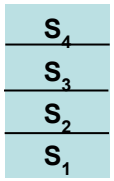
1. word sounds and phonetic formations of higher order (in your inner larynx)
2. meaning units and higher-order meaning formations
3. schematized aspects (in the flow of your imagination)
4. represented entities

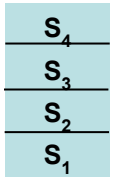
literary work and concretizations

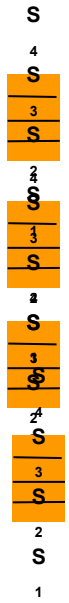


the life of the literary work









Can we fit software into this account of cultural objects?

Software = that which humans write

definitions of ‘software’

Programs, procedures, rules, and any associated documentation pertaining to the operation of a system. Contrast with hardware.

More narrowly: A program or set of instructions that controls the operation of a computer.

An *ordered sequence* of *written out instructions* that *controls* the *operation* of a computer for a specific *purpose.*

marks of the work of software

it is created (thus not an abstract Platonic entity)

it can have copies

but it is not identical with any copy (a copy counts as a copy)

it is an ordered written sequence (a created pattern)

it can be read

the readings (software inspection) unfold in real time

the events represented (instructed) unfold in represented (idealized execution) time

further marks of the work of software

it may be physically performed (on a machine)

it may be mentally performed (I imagine its execution)

the program work is not identical with any execution

the program is not identical with any copy of the code

concretization

- *Programs must be written for people to read and only incidentally for machines to execute.* (Abelson & Sussman 1989)
- Software execution vs. musical performance (role of score)
- Software execution vs. theatrical performance (role of instructions)

executable entity	execution
work of literature	reading
work of music	performance
work of drama	performance
recipe	act of cooking
choreographic script	dance
film script	film screening
service book	religious rite
route plan	funeral procession
piece of software	execution

Conclusion

a piece of software is an entity of the same ontological category as a work of dramatic art

it is an abstract pattern of instructions that is at the same time a historical created entity

with concretizations (readings), and executions, and an underlying script or score

Does this neglect the mathematical features of software?

a piece of software ought to run on a computer

has mathematical properties

which need to be dealt with

perhaps God could apprehend the language-free essence of the piece of software from this strictly mathematical point of view

Science of Emerging Media

Barry Smith

Preamble on ontology

Wherever large bodies of data are gathered together, an ontology will arise

to enable people and computers to make sense of them

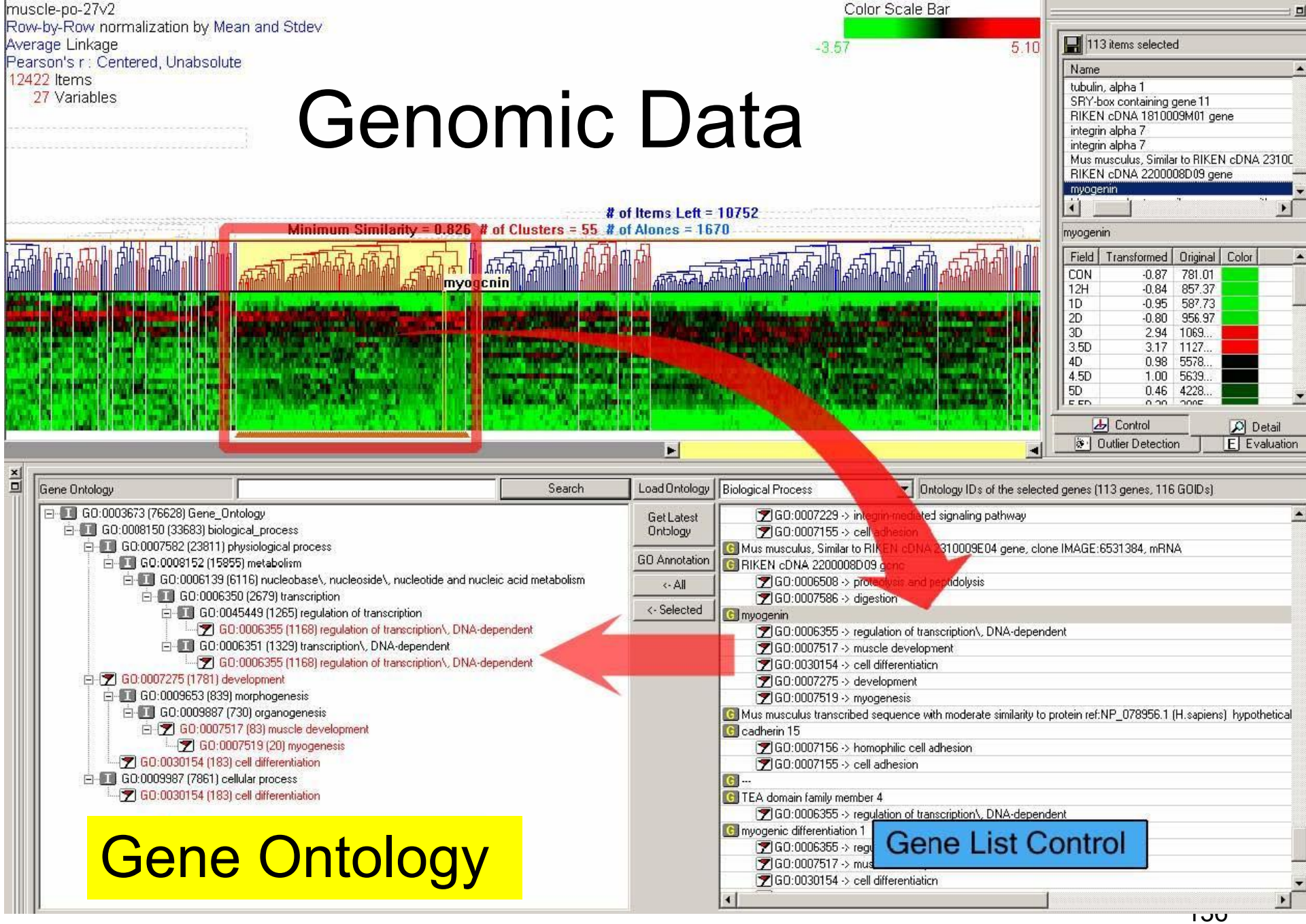
– for analysis, comparison, search

Google hits Jan. 2004

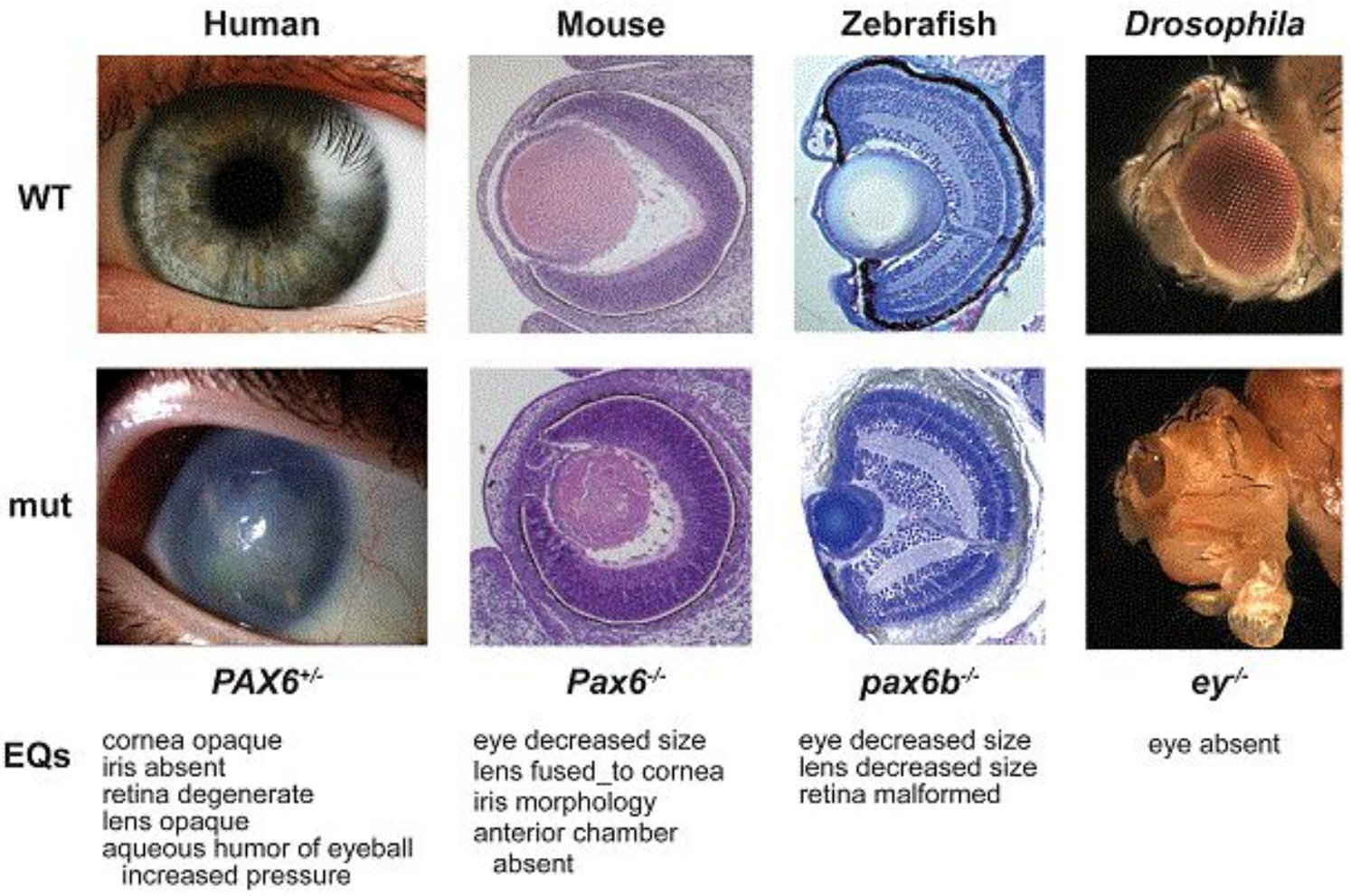
ontology + Heidegger	58K
ontology + Aristotle	77K
ontology + philosophy	327K
ontology + software	468K
ontology + database	594K
ontology + information systems	702K

Comparison 2004/2012

ontology + Heidegger	58K	1.91M
ontology + Aristotle	77K	1.66M
ontology + philosophy	327K	4.91M
ontology + software	468K	7.80M
ontology + database	594K	10.20M
ontology +information systems	702K	5.14M


muscle-po-27v2
Row-by-Row normalization by Mean and Stdev
Average Linkage
Pearson's r : Centered, Unabsolute
12422 Items
27 Variables
Color Scale Bar
-3.57
5.10
Genomic Data
# of Items Left = 10752
Minimum Similarity = 0.826 # of Clusters = 55 # of Alones = 1670
myogenin
113 items selected
Name
tubulin, alpha 1
SRY-box containing gene 11
RIKEN cDNA 1810009M01 gene
integrin alpha 7
integrin alpha 7
Mus musculus, Similar to RIKEN cDNA 2310C
RIKEN cDNA 2200008D09 gene
myogenin
myogenin
Field Transformed Original Color
CON -0.87 781.01
12H -0.84 857.37
1D -0.95 587.73
2D -0.80 956.97
3D 2.94 1069...
3.5D 3.17 1127...
4D 0.98 5578...
4.5D 1.00 5639...
5D 0.46 4228...
Control
Detail
Outlier Detection
Evaluation
Gene Ontology
Search
Load Ontology
Get Latest Ontology
GO Annotation
<- All
<- Selected
GO:0003673 (76628) Gene_Ontology
GO:0008150 (33683) biological_process
GO:0007582 (23811) physiological process
GO:0008152 (15855) metabolism
GO:0006139 (6116) nucleobase\, nucleoside\, nucleotide and nucleic acid metabolism
GO:0006350 (2679) transcription
GO:0045449 (1265) regulation of transcription
GO:0006355 (1168) regulation of transcription\, DNA-dependent
GO:0006351 (1329) transcription\, DNA-dependent
GO:0006355 (1168) regulation of transcription\, DNA-dependent
GO:0007275 (1781) development
GO:0009653 (839) morphogenesis
GO:0009887 (730) organogenesis
GO:0007517 (83) muscle development
GO:0007519 (20) myogenesis
GO:0030154 (183) cell differentiation
GO:0009987 (7861) cellular process
GO:0030154 (183) cell differentiation
Gene Ontology
Biological Process
Ontology IDs of the selected genes (113 genes, 116 GOIDs)
GO:0007229 -> integrin-mediated signaling pathway
GO:0007155 -> cell adhesion
Mus musculus, Similar to RIKEN cDNA 2310009E04 gene, clone IMAGE:6531384, mRNA
RIKEN cDNA 2200008D09 gene
GO:0006508 -> proteolysis and peptidolysis
GO:0007586 -> digestion
myogenin
GO:0006355 -> regulation of transcription\, DNA-dependent
GO:0007517 -> muscle development
GO:0030154 -> cell differentiation
GO:0007275 -> development
GO:0007519 -> myogenesis
Mus musculus transcribed sequence with moderate similarity to protein ref:NP_078956.1 (H.sapiens) hypothetical
cadherin 15
GO:0007156 -> homophilic cell adhesion
GO:0007155 -> cell adhesion

TEA domain family member 4
GO:0006355 -> regulation of transcription\, DNA-dependent
myogenic differentiation 1
GO:0006355 -> regu
GO:0007517 -> mus
GO:0030154 -> cell differentiation
Gene List Control



The Gene Ontology provides standard terms and definitions, and standard categories, for describing phenotypes associated with specific gene products in different organisms

thousands of papers and hundreds of databases are annotated with GO terms

MouseEcotope

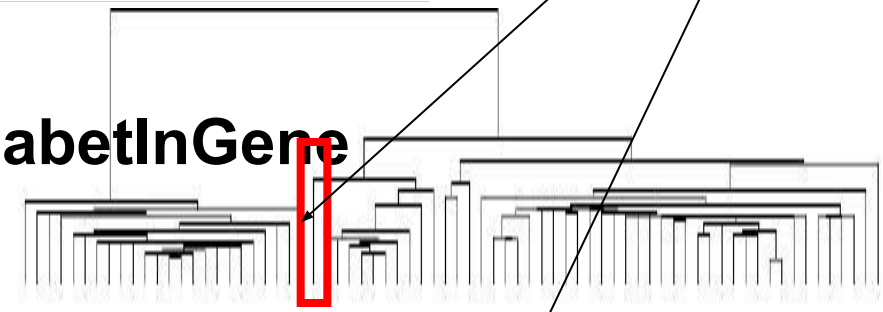
Tool	Statistical model	Correction for multiple experiments	GO Visualization	Microarrays supported	Time to process 200 genes (s)
Onto-Express	χ^2, binomial, hypergeometric, Fisher's exact test	Šidák, Holm, Bonferroni, FDR	Flat, Tree	172 commercial arrays (Affymetrix, SuperArray, Sigma-Genomsys, ClonTech, PerkinElmer, Operon, Takara, NIA); can also upload a user-defined list	7, 8, 16, 28
GoMiner	Fisher's exact test	Relative enrichment	Tree, DAG	uploads from user	77, 123, 223, 340
DAVID	None	None	Not available	Not applicable	15, 17, 27, 54
EASEonline	Fisher's exact test	Bonferroni	Not available	27 arrays (Affymetrix only); can also upload a user-defined list	15, 19, 34, 74
GeneMerge	Hypergeometric	Bonferroni	Flat, no hierarchical structure	Uploads from user	6, 6, 6, 8
FuncAssociate	Fisher's exact test		Not available	Uploads from user	22, 27, 29, 50
GOTM	Hypergeometric	None	Tree	37 arrays (Affymetrix only); uploads from user	59, 60, 157,
FatiGO	Percentage	Step-down minP, FDR (Benjamini and Hochberg, 1995), FDR (Benjamini and Yekutieli, 2001)	Flat, Tree	Uploads from user	15, 49, 69, 105
CLENCH	Hypergeometric, χ^2, binomial	None	DAG	Uploads from user	NA
GOstat	χ^2, Fisher's exact test	FDR, Holm	Not available	Uploads from user	12, 20, 46, 80
GOToolBox	Hypergeometric, binomial, Fisher's exact test	Bonferroni, Holm, Hochberg, Hommel, FDR	Not available	Uploads from user	22, 81, 145, 270
GoSurfer	χ^2	q-value	DAG	22 arrays (Affymetrix only); uploads from user	2, 2, 2, 3
Ontology Traverser	Hypergeometric	FDR	Not available	5 arrays (Affymetrix); uploads from user	NA
eGOn	Binomial	None	Tree	Uploads from user	20, 45, 80, 95

sphingolipid transporter activity

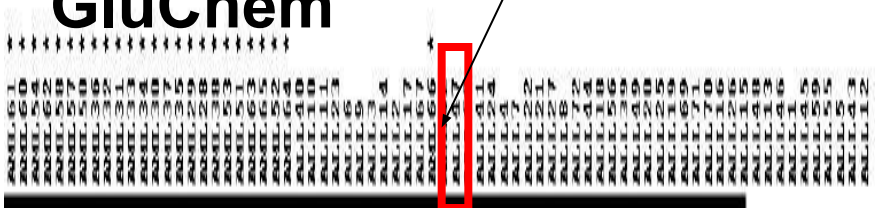
GlyProt

GLUL Glutamate-ammonia ligase
HMOX2 Heme oxygenase (decycling) 2
Ahnak-A Nucleoprotein Ahnak-A
Erythrocyte membrane 50kd glycoprotein
CA2 Carbonic anhydrase II
NFIX Nuclear factor I/X
HOMEOBOX PROTEIN HOX-A5
Homeotic Protein C6, Class I
KIAA0246 gene, partial cds
ELA2 Elastatse 2, neutrophil
MPO Myeloperoxidase
CST3 Cystatin C
ARH9 Ras homolog, member G (rho G)
ANX1 Annexin I (lipocortin I)
CSF3R
SFI1 integration oncogene
D component of complement
NF-IL6-beta
MANA2 Alpha mannosidase II isozyme
Homolog suppressor-of-white-apricot
CD2 antigen (p50)
Myosin VIIA (USH1B)
SPRR1B Small proline-rich protein 1B
ACTN2 Actinin alpha 2
KIAA0080 gene, partial cds
DTYMK Deoxythymidylate kinase
Carcinoembryonic antigen precursor
LTB Lymphotoxin-beta
GATA3 GATA-binding protein 3
GB DEF = Escherichia coli unknown
GUANYLATE CYCLASE, BETA-1
Spinal Muscular Atrophy 4
KIAA0239 gene, partial cds
Butyrophilin (BTF4)
MHC-encoded proteasome LAMP7-E1
RPA1 Replication protein A1
Clone 22 mRNA
CTPS CTP synthetase
UBIQUITIN-LIKE PROTEIN GDX
(AF1q) mRNA
S100 calcium-binding protein A13
BLK Protein-tyrosine kinase blk
IGB (B29)
OBF-1
TCL1
CD19 antigen
Skeletal muscle abundant protein

DiabetInGene



GluChem



the data involved, and the scientists collecting and using these data, are thereby linked together in a gigantic network

Tool	Statistical model	Correction for multiple experiments	GO Visualization	Microarrays supported	Time to process 200 genes (s)
Onto-Express	χ^2, binomial, hypergeometric, Fisher's exact test	Šidák, Holm, Bonferroni, FDR	Flat, Tree	172 commercial arrays (Affymetrix, SuperArray, Sigma-Genomsys, ClonTech, PerkinElmer, Operon, Takara, NIA); can also upload a user-defined list	7, 8, 16, 28
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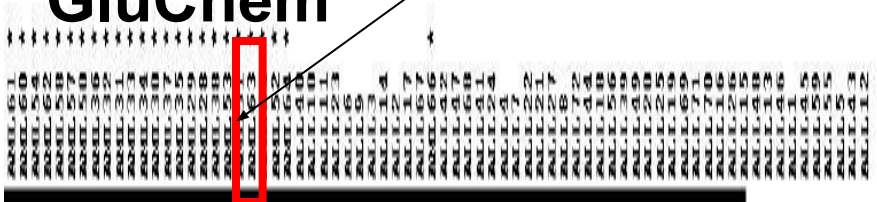
Ontology Traverser	Hypergeometric	FDR	Not available	5 arrays (Affymetrix); uploads from user	NA
eGOn	Binomial	None	Tree	Uploads from user	20, 45, 80, 95

Holliday junction

helicase complex

DiabetInGene

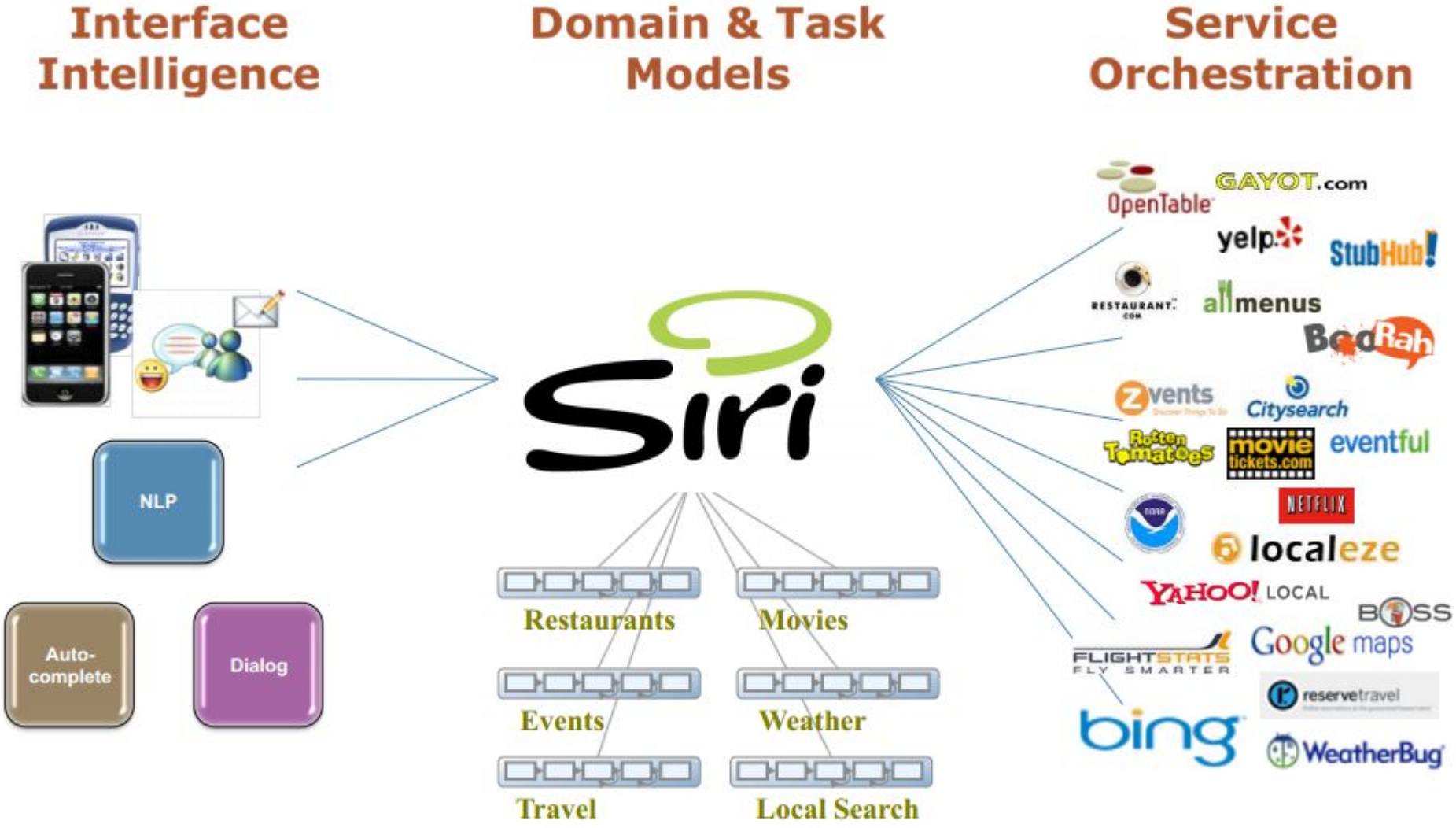
GluChem



GLUL Glutamate-ammonia ligase
HMOX2 Heme oxygenase (decycling) 2
AhnaK-A Nucleoprotein AhnaK-A
Erythrocyte membrane 50kd glycoprotein
CA2 Carbonic anhydrase II
NFIX Nuclear factor I/X
HOMEOBOX PROTEIN HOX-A5
Homeotic Protein C5, Class I
KIAA0246 gene, partial cds
ELA2 Elastatse 2, neutrophil
MPO Myeloperoxidase
CST3 Cystatin C
ARH9 Ras homolog, member G (rho G)
ANX1 Annexin I (lipocortin I)
CSF3R
SFI1 integration oncogene
D component of complement
MF-IL6-beta
Ahnak-Related Sequence
MAMA2 Alpha mannosidase II isozyme
GRO2 oncogene
Homolog suppressor-of-white-apricot
CD2 antigen (p50)
SPRR1B Small proline-rich protein 1B
KIAA0080 gene, partial cds
DTYMK Deoxythymidylate kinase
Carcinoembryonic antigen precursor
LTB Lymphotoxin-beta
GATA3 GATA-binding protein 3
GB DEF = Escherichia coli unknown
GUANYLATE CYCLASE, BETA-1
Spinal Muscular Atrophy 4
KIAA0239 gene, partial cds
Butyrophilin (BTF4)
MHC-encoded proteasome LAMP7-E1
RPA1 Replication protein A1
Clone 22 mRNA
CTPS CTP synthetase
UBIQUITIN-LIKE PROTEIN GDX
(AF1q) mRNA
S100 calcium-binding protein A13
BLK Protein-tyrosine kinase blk
IGB (B29)
OBF-1
TCL1
CD19 antigen
Skeletal muscle abundant protein

If Iones linked together by Siri Ontology

“Siri: An Ontology-driven Application for the Masses”, Adam Cheyer and Tom Gruber



BBC Internet Blog

« Previous | Main | Next »

BBC World Cup 2010 dynamic semantic publishing

Post categories: **BBC Sport** **Comments**

The foundation of these dynamic aggregations is a rich ontological domain model. The ontology describes entity existence, groups and relationships between the things/concepts that describe the World Cup. For example, "Frank Lampard" is part of the "England Squad" and the "England Squad" competes in "Group C" of the "FIFA World Cup 2010".

The ontology also describes journalist-authored assets (stories, blogs, profiles, images, video and statistics) and enables them to be

The New York Times
Saturday, October 26, 2013

Politics

Report an Error
E-MAIL

Mitt Romney

Dave Weaver for The New York Times

News about Mitt Romney, including commentary and archival articles published in The New York Times.

Mitt Romney Chronology

The Caucus

TimesCast Politics Romney Visits the White House
November 29, 2012 2:42pm

Romney Visits the White House
November 29, 2012 1:34pm

For Obama and Romney, Lunch at the White House
November 28, 2012

More posts about Mitt Romney »

Mitt Romney

Mitt Romney at a Glance

Full Name: Willard Mitt Romney

Political Office: Governor of Massachusetts, 2003-2007

Business/Professional Experience: Consultant, Boston Consulting Group, 1975-77, Bain & Co., Boston, 1977-78, vice president, 1978-84, chairman, CEO, 1991—2001; managing partner, CEO Bain Capital, Inc., 1984—2001; president, CEO Salt Lake Organizing Committee (Winter Olympics), Utah, 1999—2002

Date of Birth: March 12, 1947

Place of Birth: Detroit, Mich.

Education: B.A., Brigham Young University, Provo, Utah, 1971; J.D., Harvard Law School, 1975; M.B.A., Harvard Business School, 1975

http://bioportal.bioontology.org/ontologies/IAO

Ontology for the Intelligence Community

Semantic Technology for Intelligence, Defence and Security (STIDS)

IAO-Intel

An Ontology of Information Artifacts in the Intelligence Domain

Barry Smith
University at Buffalo
NY, USA

Tatiana Malyuta
CUNY
NY, USA

Ron Rudnicki
CUBRC, Buffalo
NY, USA

William Mandrick
Data Tactics
Herndon, VA, USA

David Salmen
Data Tactics
Herndon, VA, USA

Peter Morosoff
E-Maps, Inc.
Washington, DC, USA

Danielle K. Duff
I2WD
Aberdeen, MD, USA

James Schoening
I2WD
Aberdeen, MD, USA

Kesny Parent
I2WD
Aberdeen, MD, USA

End of Preamble

Social reality is being changed by massive digital networking

Speech Act Theory

Thomas Reid (1785)

Speech Act Theory

Thomas Reid:

> **the principles of the art of language are to be found in a just analysis of the various species of sentences. Aristotle and the logicians have analysed one species – to wit, the proposition.**
>
> **To enumerate and analyse the other species must, I think, be the foundation of a just theory of language.**

Reid's theory of 'social operations'

'social acts' vs. 'solitary acts'

A social act … must be directed to some other person –

it constitutes a miniature 'civil society'

Adolf Reinach

Adolf Reinach's theory of social acts (1913)

part of a wider ontology of legal phenomena such as contract and legislation

a 'contribution to the general ontology of social interaction'

Austin

Austin (1955)

‘promising is not something superior, in the same scale as hoping and intending’

Rather, when I say ‘I promise’

I have not merely announced my intention, but, by using this formula (performing this ritual), I have bound myself to others, and staked my reputation, in a new way.

Austin: the speech act of guaranteeing

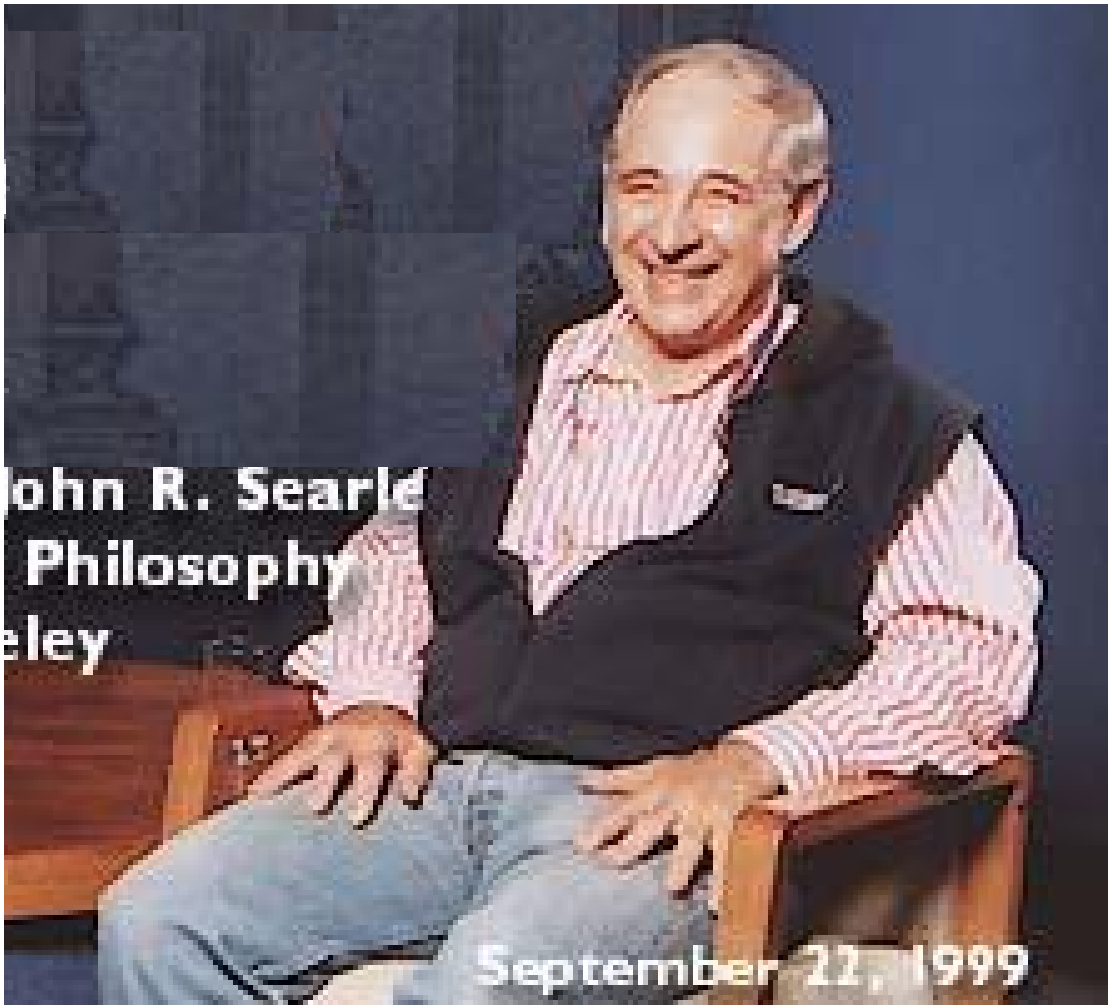
someone who guarantees and turns out to be wrong is “liable to be rounded on by others”liable to be rounded on by others”

“A Plea for Excuses”

Austin recommends three ‘source-books’ for the study of (speech) actions: the *dictionary*, the *law*, and *psychology*.

Three ingredients: language use, law, psychology

Searle



Searle's *Speech Acts* (1969)

Regulative Rules

merely regulate antecedently existing forms of behaviour, as rules of polite table behaviour regulate eating

Constitutive Rules

create new forms of behaviour, as the rules of chess *create the very possibility of* our engaging in the type of activity we call playing chess

speech acts

an institutional fact = a fact whose existence presupposes the existence of certain systems of constitutive rules called ‘institutions’

Searle:

Speech acts are acts performed by uttering expressions in accordance with certain constitutive rules

When you perform a speech act then you create certain institutional facts

(what Reid referred to as a miniature ‘civil society’).

Institutional facts

exist because we are able to treat the world and each other in certain, very special (cognitive) ways

Examples of institutions:

- **money**
- **property**
- **marriage**
- **government**

Institutional facts exist because of language use, law and psychology

Searle: there is a level of brute facts

– constituted by the facts of natural science

and independent of all human institutions,

From out of this there arises a hierarchy of institutional facts at successively higher levels.

Built up through the operations of language use, law and psychology

But there is something missing here

What happens when you use Turbotax to fill in your tax forms?

- You start with a webpage with empty cells
- You enter linguistic signs into these empty cells
- A new webpage appears
- You repeat
- What happens in each successive stage is determined by the program (by a combination of physics and mathematics)

People are changed in virtue of the fact that the world they live in is digitally intermeshed

Can **we draw a line, here, between brute facts and institutional facts?**

Consider: Reputation

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New!
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A taxi-summoning app

Uber allows customers to rate *drivers*

for punctuality, cleanliness, and so forth. You can then ues these ratings in making bookings in the future.

But then, when they leave the taxi, *the drivers rate the customers*, and these ratings too are stored in the system and used by *drivers* in the future

Behind the scenes, good behavior is being rewarded and bad behavior punished

customers who vomit in the cab, or who refuse to pay, or who behave aggressively will find themselves restricted in their use of Uber in the future

First hypothesis

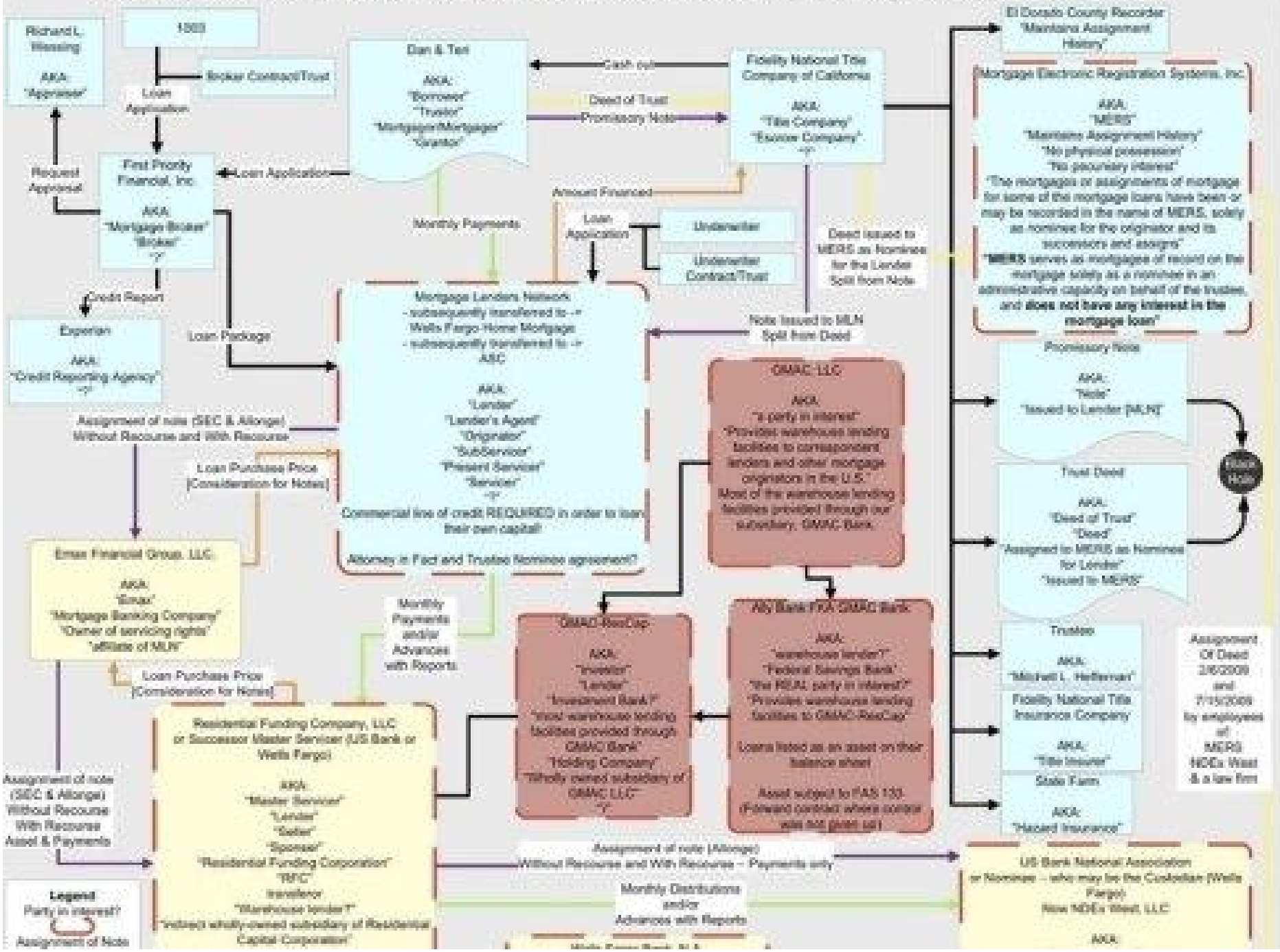
In the era of emerging media all of the following are being radically transformed:

- **Reputation**
- **Guarantees**
- **Institutions and institutional fact**
- **Social interactions**
- **Commercial interactions**

What happens when 100s of mortgages are bundled together to form a 'collateralized debt obligation' (CDO)?

A CD is created through a series of steps, involving both computers and human beings (and lawyers)

Dan & Teri Securities Transaction Process Reverse Engineered version 4.1



What is a CDO

A CDO is an entity that is in some way associated with the psychology of people, with lawyers, and with the operations of physical devices.

If they are associated with a miniature civil society in Thomas Reid's sense, then it is a miniature civil society that involves multiple computer networks.

What are you buying when you buy a CDO?

Not, it would seem, anything physical.

A CDO does not have physical properties.

It is more like a mathematical structure, which can be aggregated and partitioned, packaged and re-packaged, ramped-up and amortized.

It is thereby tied to time and change.

Second hypothesis

In the era of emerging media the idea that there are just two levels:

brute facts of physics

institutional facts resting on language use + law + psychology

breaks down

in both their structures and in their dynamical unfolding institutional facts are digitally shaped

How family life changes

How commerce changes

How philosophy changes – first, practically all literature is available on demand

John R. SEARLE

University of California, Berkeley
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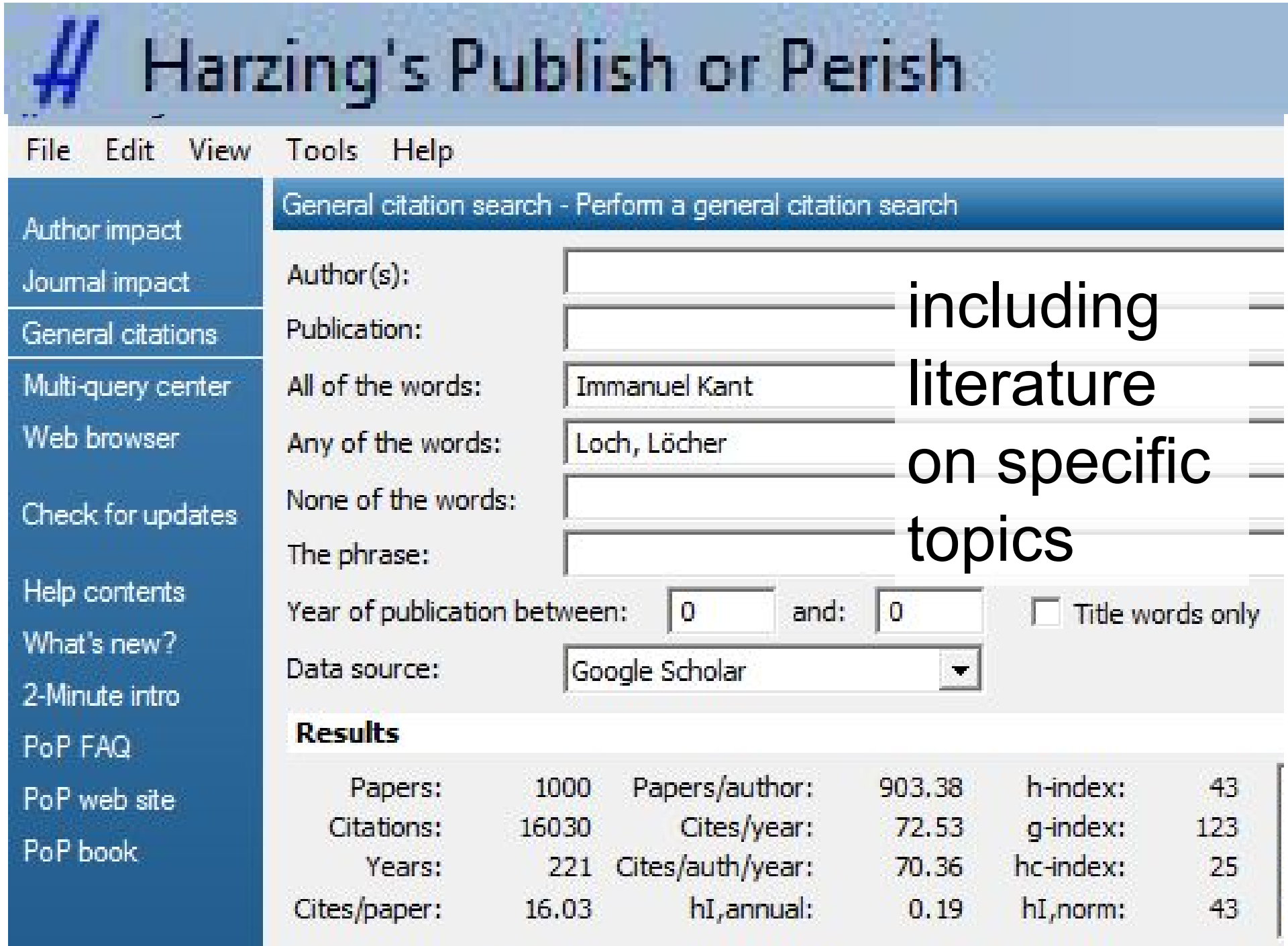
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Publication:
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Any of the words: Loch, Löcher
None of the words:
The phrase:
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Data source: Google Scholar
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Citations: 16030 Cites/year: 72.53 g-index: 123
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Cites/paper: 16.03 hI,annual: 0.19 hI,norm: 43
including literature on specific topics

How science changes

23andme.com

Wojcicki's goal is to sign up a million customers to send in their DNA. "Big data is going to make us all healthier. What kind of diet should certain people be on? Are there things people are doing that make them really high-risk for cancer? There's a whole group of people who are 100-plus and have no disease. Why?" As of September 2013, 23andMe had 400,000 genotyped customers.

- **Aging research**

morphs with

- **Dating service**
- **Designer baby service**
- **Missing-relative-search service**
- **Creates new miniature civil societies around diseases**

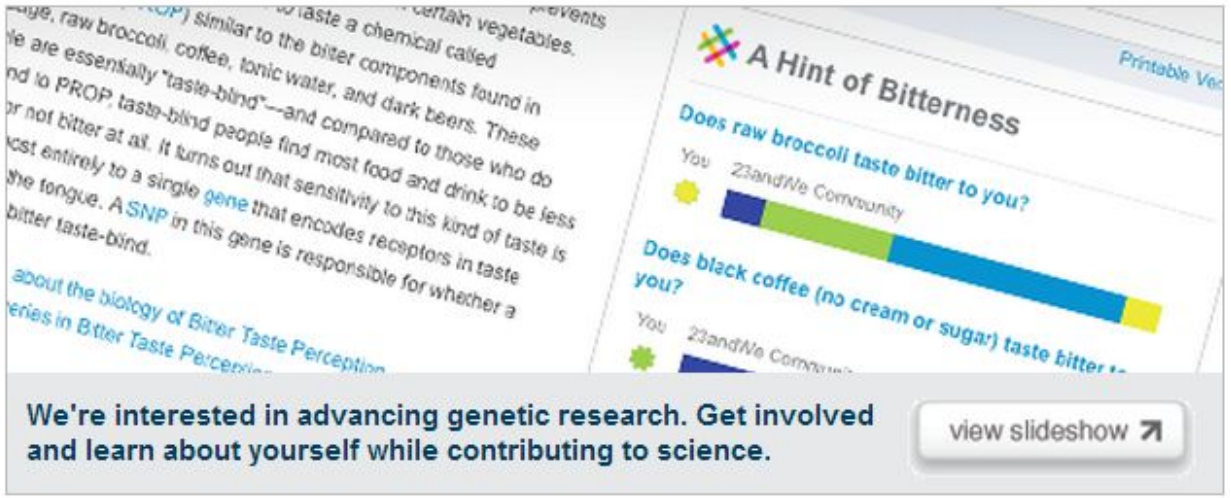
23andWe

23andMe

welcome health ancestry how it works store

- 23andMe Research
- 23andMe Research Findings
- Physician Community
- Scientific Community

23andWe Research



23andMe isn't just about you. Our research arm, 23andWe, gives customers the opportunity to leverage their data by contributing it to studies of genetics. With enough data, we believe 23andWe can produce revolutionary findings that will benefit us all.

How warfare changes

The reality is that soldiers are now a form of information technology, responsible for a far broader range of roles, decisions, and systems-based interactions than in any previous conflict. … Today soldiers' skills are measured largely in relation to the technological systems the soldiers will be using. (Corey Mead, *War Play: Video Games and the Future of Armed Conflict*, 2013)

People change

- *Old theory of personal identity:*

You are a biological organism, with plans, skills, and a reputational trail

- *New theory of personal identity:*

your plans, skills, and reputational trail becoming intermeshed digitally with the plans, skills and reputational trails of other human beings

– making possible new kinds of plans, new kinds of achievements, new kinds of societies

The science of emerging media

The science of how people and societies are changing as a result of digital intermeshing

The science of how people are using digital intermeshing as a way of changing people and societies

People are changed in virtue of the fact that the world they live in is digitally intermeshed

- People are changed by the fact that the computer can train them to improve their performance through tiny adjustments of the same act repeated 100s of times
- Societies (for example an Army platoon) are created by the fact that the computer can train them to improve their performance through tiny adjustments of the same interaction repeated 100s of times

What are the fetures of emerging media

W. Russell Neuman (1991)

a) alter the influence of distance,

b) increase the volume and speed of communications,

c) enable interactive communications

d) permit the merging of media forms.

Now we need to add:

e) create new kinds of digital entities – as for instance in the realm of financial derivatives

f) create new forms of human interaction

g) forces technology of overviews

h) brings everything into the open (and thereby enables plagiarism, rediscovery-of-the-wheel*, and fraud detection in ways that are already changing science)

*Cf. Academic Questions 2013 http://www.nas

e-Human Beings!

The contribution of internet ranking systems to the development of human capital

Barry Smith http://ontology.buffalo.edu/smith

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Professors Strike Back
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User Comments and Ratings
Professor Feedback
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RATING
COMMENT
12/5/10
Phi337
Good Quality
Easiness
Helpfulness
Clarity
Rater Interest
Grade Received N/A
If you attend every class, and listen to what
Enjoyed his class. He's a very nice prof!
10/14/10
PHI337
Good Quality
Easiness
Helpfulness
Clarity
Rater Interest
Grade Received N/A
Loved this class so much. And prof is funny,

WWW"MMHHHH

Restaurants, die Reisende empfehlen

212 von 212 angezeigt

Sortieren nach Gesamtwertung

Online-Reservierungen zuerst (6)

P' Alie (212)

r Afrikanisch (0) r Amerikanisch (3) r Asiatisch (1)
r BBQ/vom Grill (0)
r Britisch (0)

Mehr Kuchen

Preis

P' Alie (212)

r € c1>
r €€ (14)
r €€€ (3) r €€€€ co>

Restaurants zur Wahl

P' Alie (212)

r Abendessen (7) r Afterhours (9) r Bar-Szene (4)
r besondere Anlasse (1)
r BOffet (0)

Mehr Essensmoglichkeiten

Rosmarin'o Steakhouse Restaurant

Auf Rang Nr. 1 von 212 in Rostock
@(!)@(!)(!) 41 Bewertungen

"Susa P." 16-09-20 13
"..super Restaurant..unbedingt hingehen..." 27-08-20 13

KOche:Steakhouse

Karte Fotos von Gasten (6)

Borwin - Hafenrestaurant

Auf Rang Nr. 2 von 212 in Rostock
@(!)@(!)(!) 62 Bewertungen

"Von auBen wenig versprechend - Innen K..."
31-08-20 13
"Kreative FischkOche" 07-08-20 13

Preis: 17 € - 34 €
KOche:deutsch

Karte Fotos von Gasten (1O)

Hotelgaste schwarmen von ...

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22 Bewertungen
Bewertungen
Warnemunde,Restock

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pentahotel Rostock (!;(!X! X!X)
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Be Bewertungen
Restock,Mecklenburg-Vorpommern

Radisson Blu Hotel,Rostock
266
Be Bewertungen
Restock,Mecklenburg-Vorpommern

Alie Hotels in Rostock (61)

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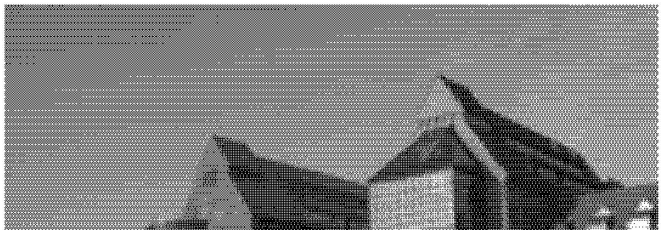

Platz Nr. von 212 Restaurants Rostocl

41 Bewertungen

Zertifikat r Exzellenz 1

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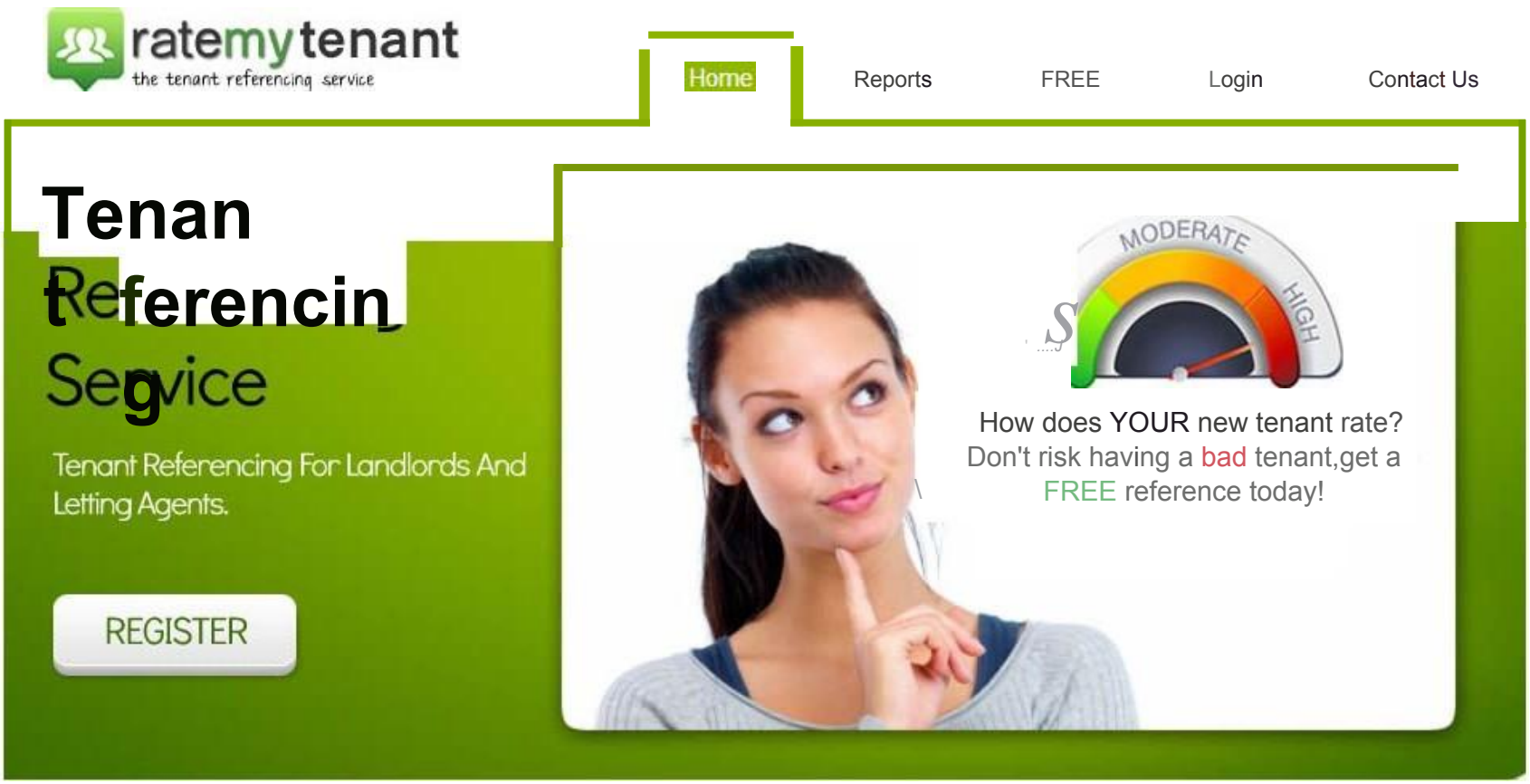

Tenant

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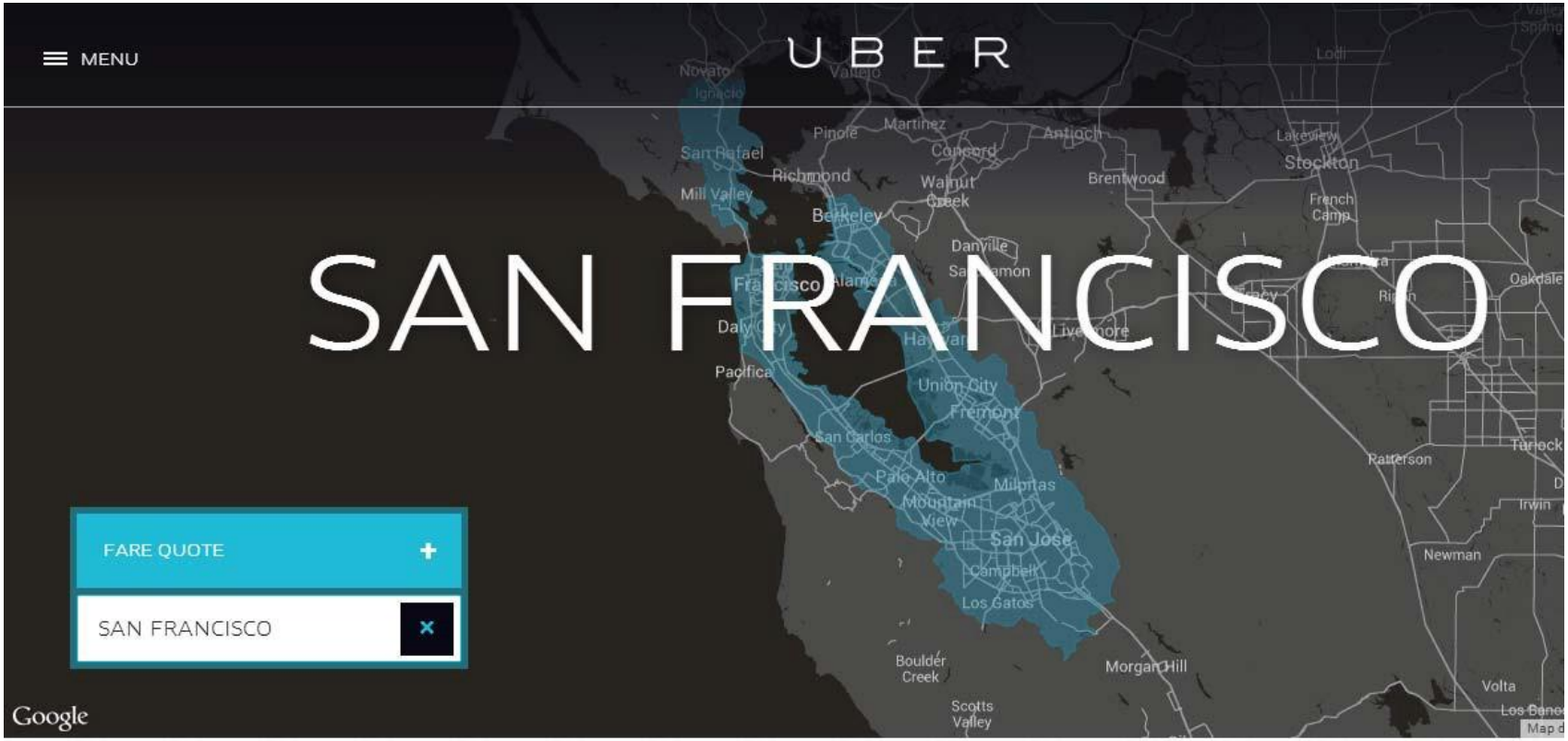
Tenant Referencing For Landlords



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But then, when the leave the taxi, the drivers rate the customers, and these ratings too are stored in the system

Behind the scenes, good behavior is being rewarded and bad behavior punished

customers who vomit in the cab, or who refuse to pay, or who behave aggressively will find themselves restricted in their use of Uber in the future

e-people

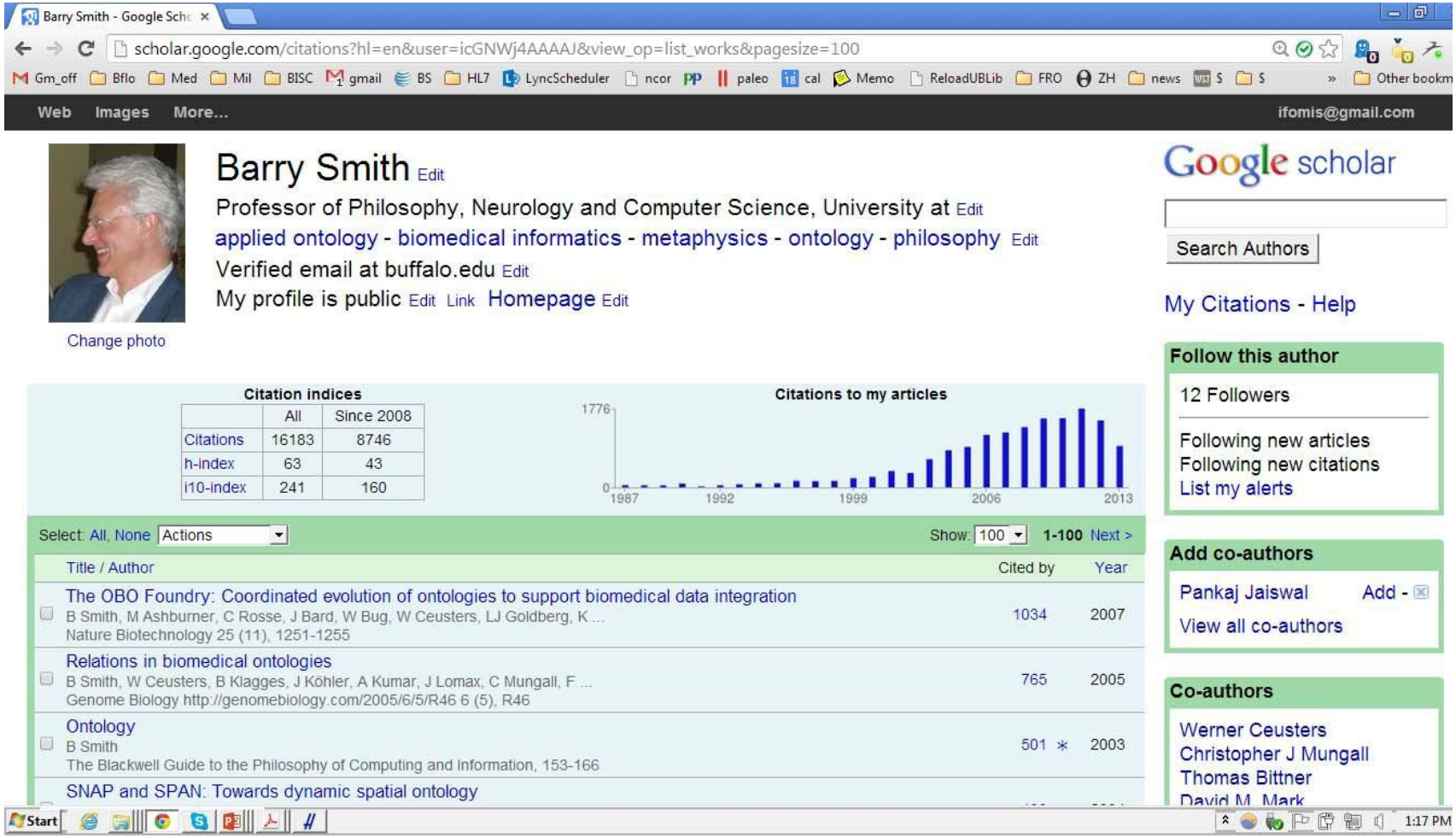
A new theory of personal identity:

You are a biological organism (with plans, skills, qualifications, titles, etc.) *together with a reputational trail*

–increasingly, your reputational trail is a matter of your rankings on internet ranking sites

–including more or less secret rankings on cites such as Uber, match.com, and SCHUFA

For academics, today, the most important ranking site is google



Barry Smith

Professor of Philosophy, Neurology and Computer Science, Universit

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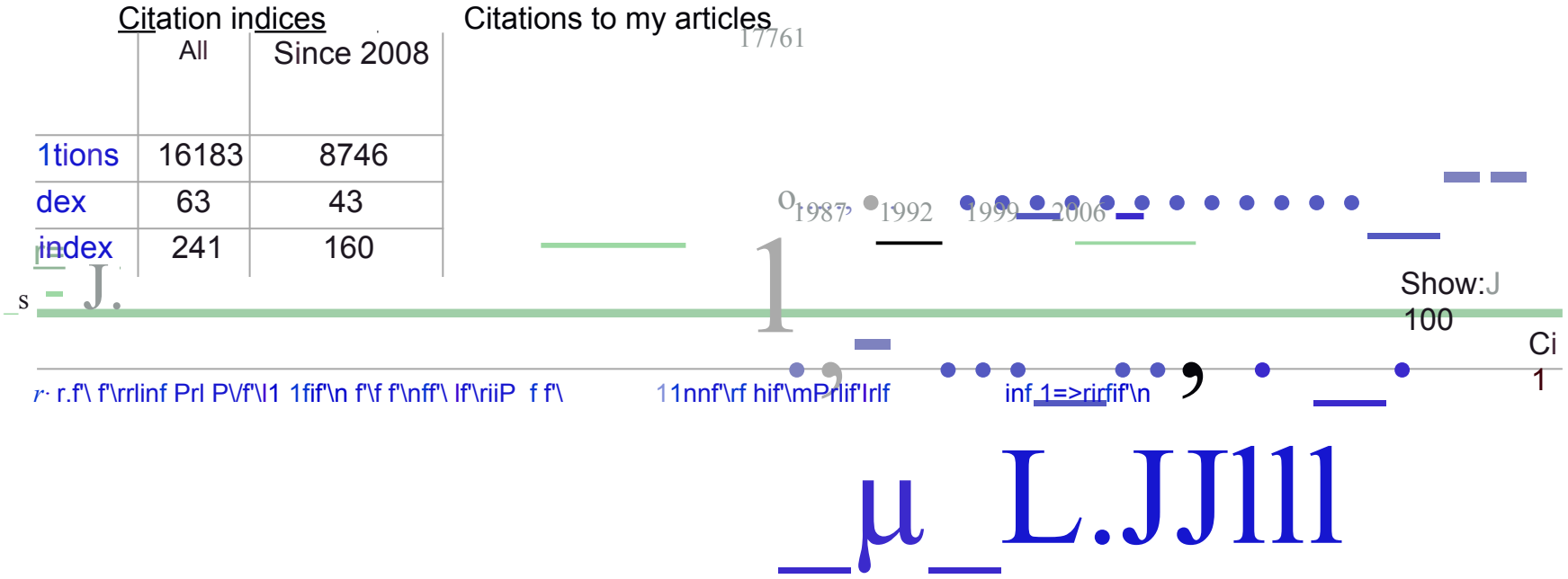

Barry Sm th

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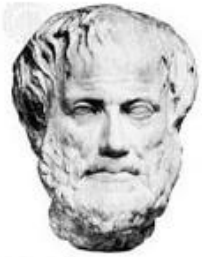

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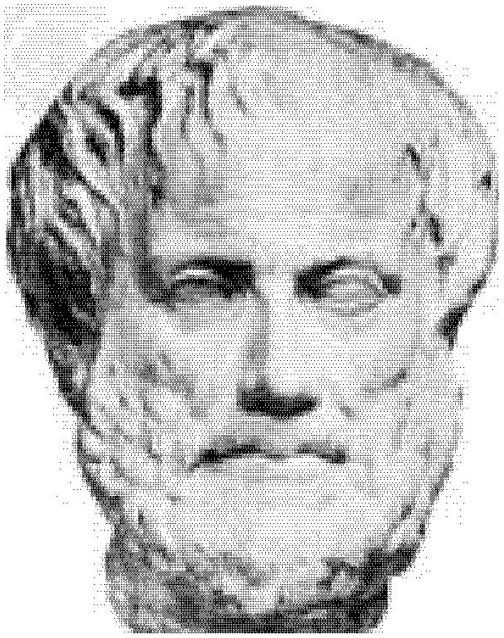

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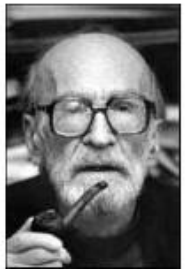

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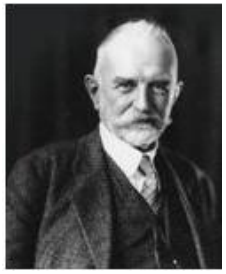

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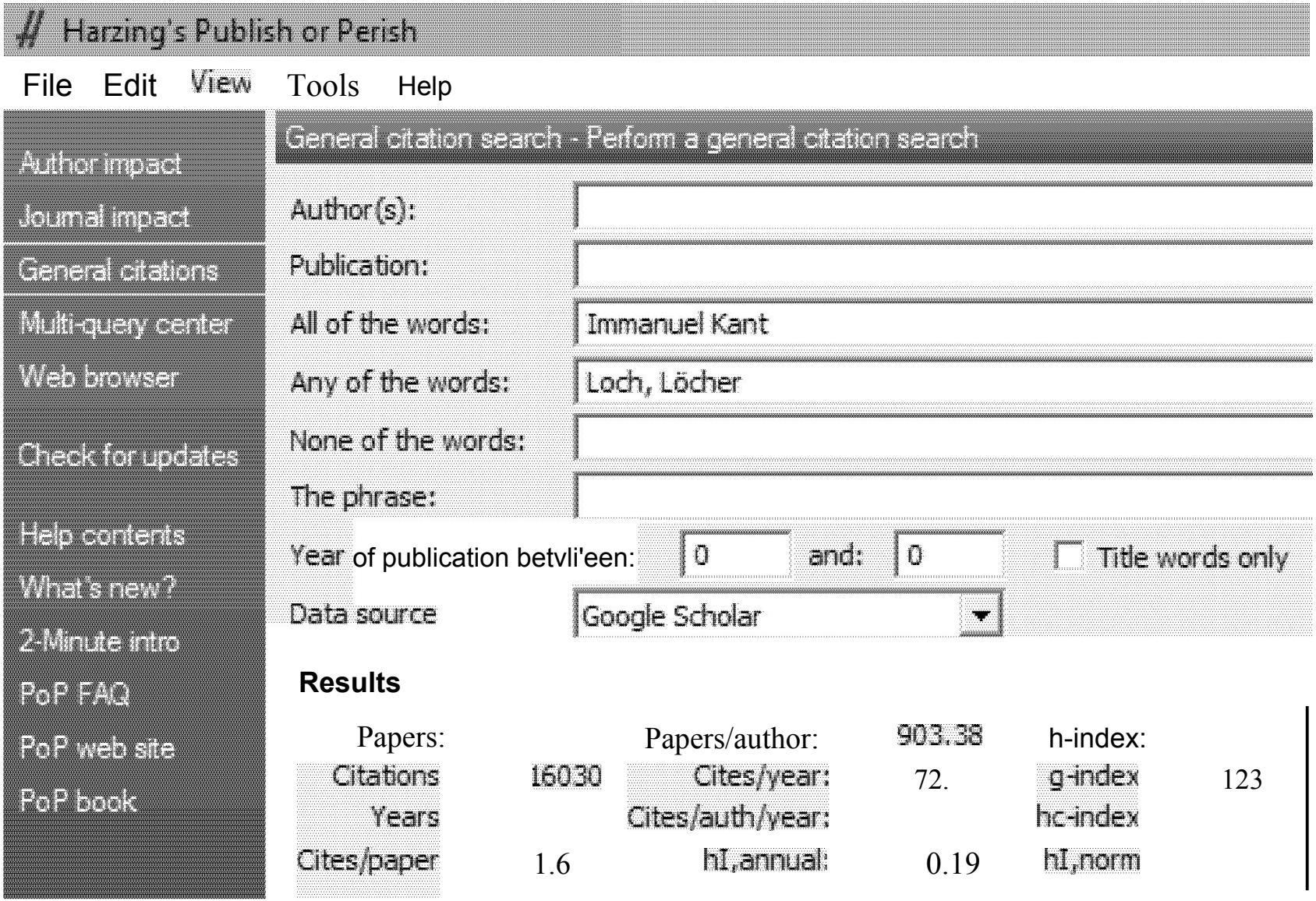
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The phrase:
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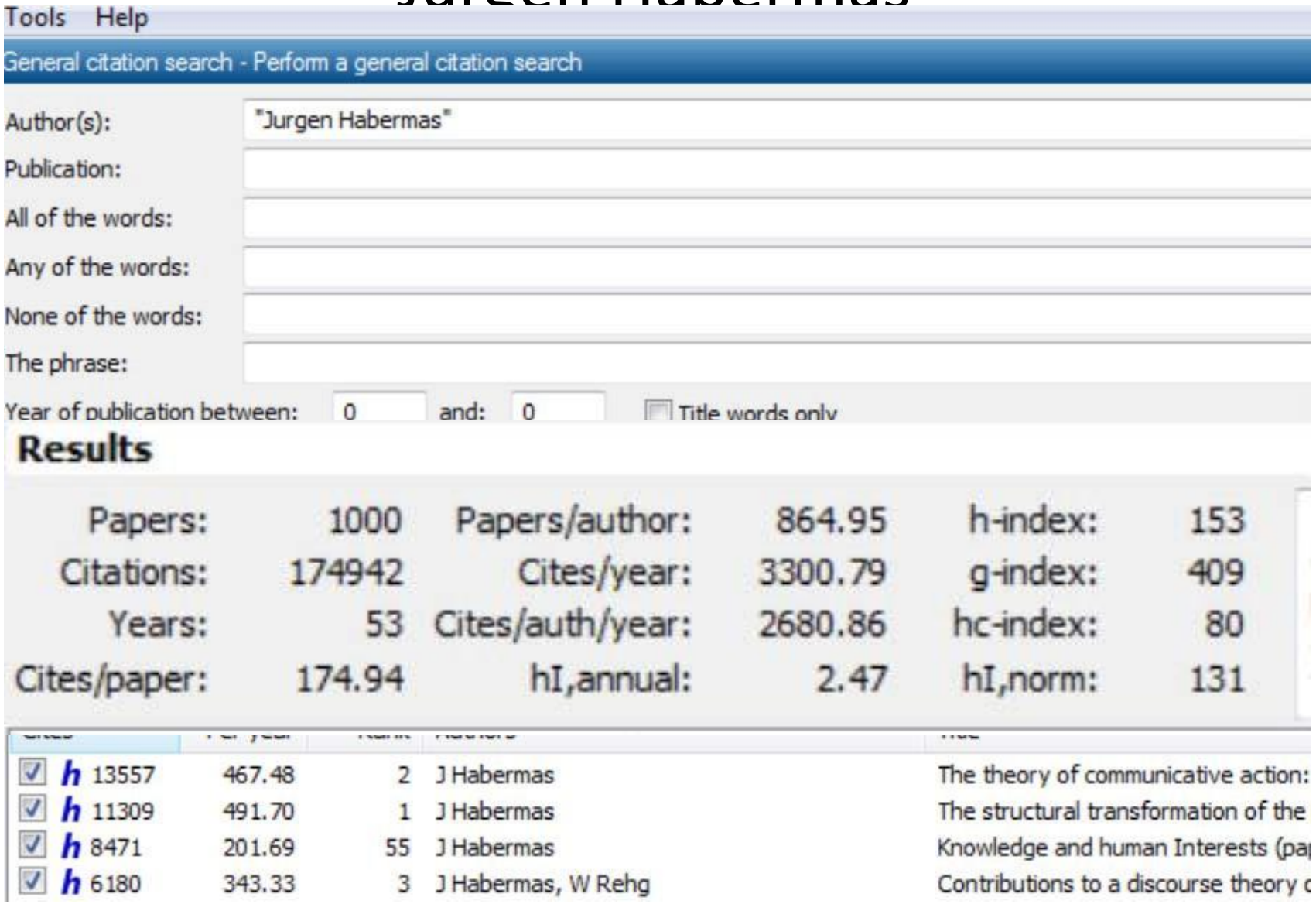

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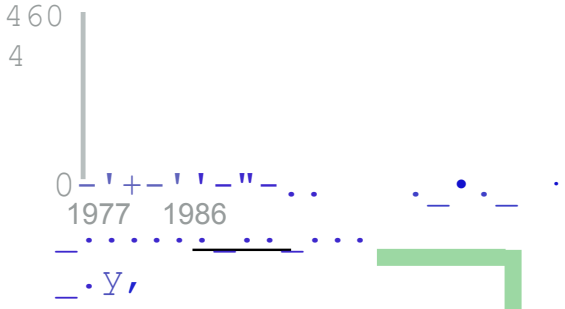

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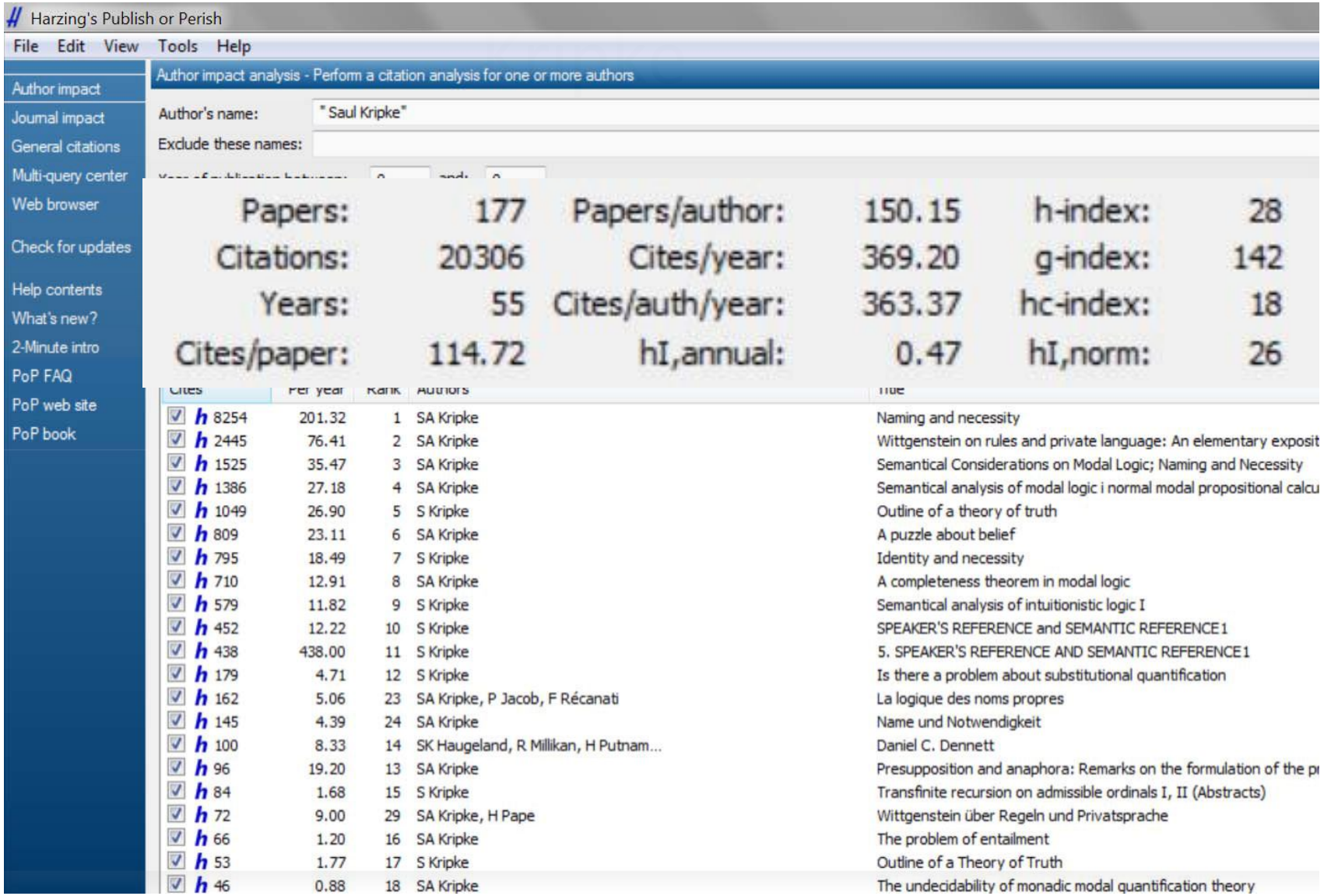
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h 2445 76.41 2 SA Kripke Wittgenstein on rules and private language: An elementary exposit
h 1525 35.47 3 SA Kripke Semantical Considerations on Modal Logic; Naming and Necessity
h 1386 27.18 4 SA Kripke Semantical analysis of modal logic i normal modal propositional calcu
h 1049 26.90 5 S Kripke Outline of a theory of truth
h 809 23.11 6 SA Kripke A puzzle about belief
h 795 18.49 7 S Kripke Identity and necessity
h 710 12.91 8 SA Kripke A completeness theorem in modal logic
h 579 11.82 9 S Kripke Semantical analysis of intuitionistic logic I
h 452 12.22 10 S Kripke SPEAKER'S REFERENCE and SEMANTIC REFERENCE1
h 438 438.00 11 S Kripke 5. SPEAKER'S REFERENCE AND SEMANTIC REFERENCE1
h 179 4.71 12 S Kripke Is there a problem about substitutional quantification
h 162 5.06 23 SA Kripke, P Jacob, F Récanati La logique des noms propres
h 145 4.39 24 SA Kripke Name und Notwendigkeit
h 100 8.33 14 SK Haugeland, R Millikan, H Putnam... Daniel C. Dennett
h 96 19.20 13 SA Kripke Presupposition and anaphora: Remarks on the formulation of the pr
h 84 1.68 15 S Kripke Transfinite recursion on admissible ordinals I, II (Abstracts)
h 72 9.00 29 SA Kripke, H Pape Wittgenstein über Regeln und Privatsprache
h 66 1.20 16 SA Kripke The problem of entailment
h 53 1.77 17 S Kripke Outline of a Theory of Truth
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Author's name: "Slavoj *liiek"*

Exclude these names:

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0

Data source: [Google Scholar

Results

Papers:	915	Papers/author:	785.04	h-index:	57
Citations:	*nn5*	Cit.es/year:	245.10	g-index:	1.q6
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"Slavoj Ziiek":all
Query date: 2013-08-21
Papers: 915
Citations: *nn5*
Years: 97

Cites	Per year	Rank	Authors	ntle
h 3913	156.52	1	S Ziiek	The sublime object ofideology
l'.tl *h* 1445	103.21	2	S Ziiek	The ticklish subject: The absent centre of political ontology
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h 1060	62.35	4	S Zifok	The plague of fantasies
Ell *h* 975	81.25	5	S Zizek	Welcome to the desert of the real!:five essays on September 11ar
l'.ll *h* 931	44.33	6	S Zifok	Tarrying with the negative:Kant,Hegel, and the critique ofideolog1
h 860	143.33	7	S Zizek,S Zizek	Enjoy your symptom!: Jacques Lacan inHoHywood and out
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h 693	30.76	34	S Zizek	For they know not what they do: Enjoyment as a poDticalfactor
l'.ll *h* 523	75.00	8	S Zizek	Multiculturalism,or,the culturallogic of multinational capitalism
Ell *h* 450	34.00	9	S Zizek	Violence: Six sideways reflections
h 442	34.55	11	S Zizek	The fragile absolute: or,why is the Christian legacy worth fighting The
h 380	74.60	43	S *Ziiek*	puppet and the dwarf: The perverse core of Christianity
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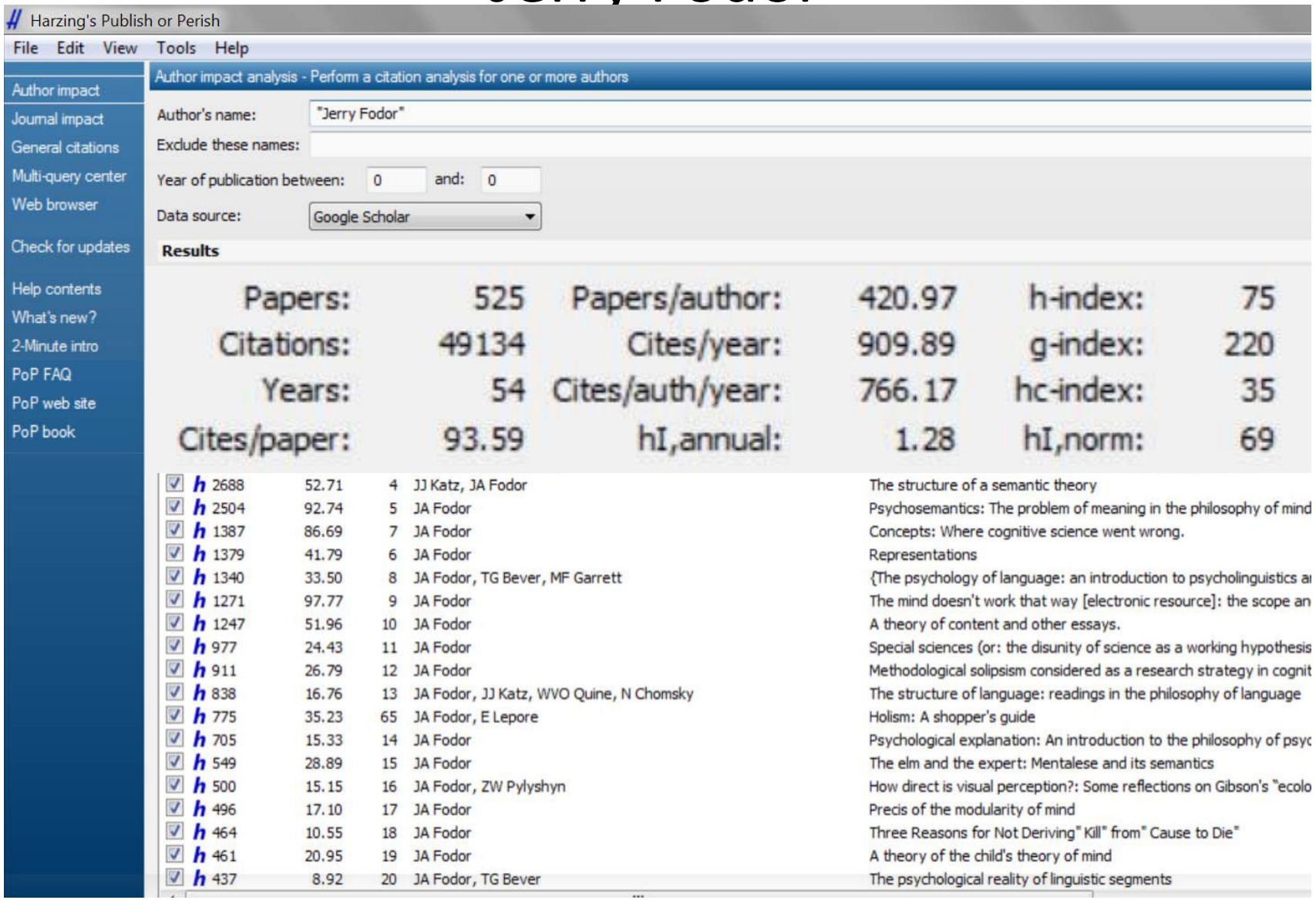
Jerry Fodor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Papers: 525 Papers/author: 420.97 h-index: 75
Citations: 49134 Cites/year: 909.89 g-index: 220
Years: 54 Cites/auth/year: 766.17 hc-index: 35
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h 2688 52.71 4 JJ Katz, JA Fodor The structure of a semantic theory
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h 461 20.95 19 JA Fodor A theory of the child's theory of mind
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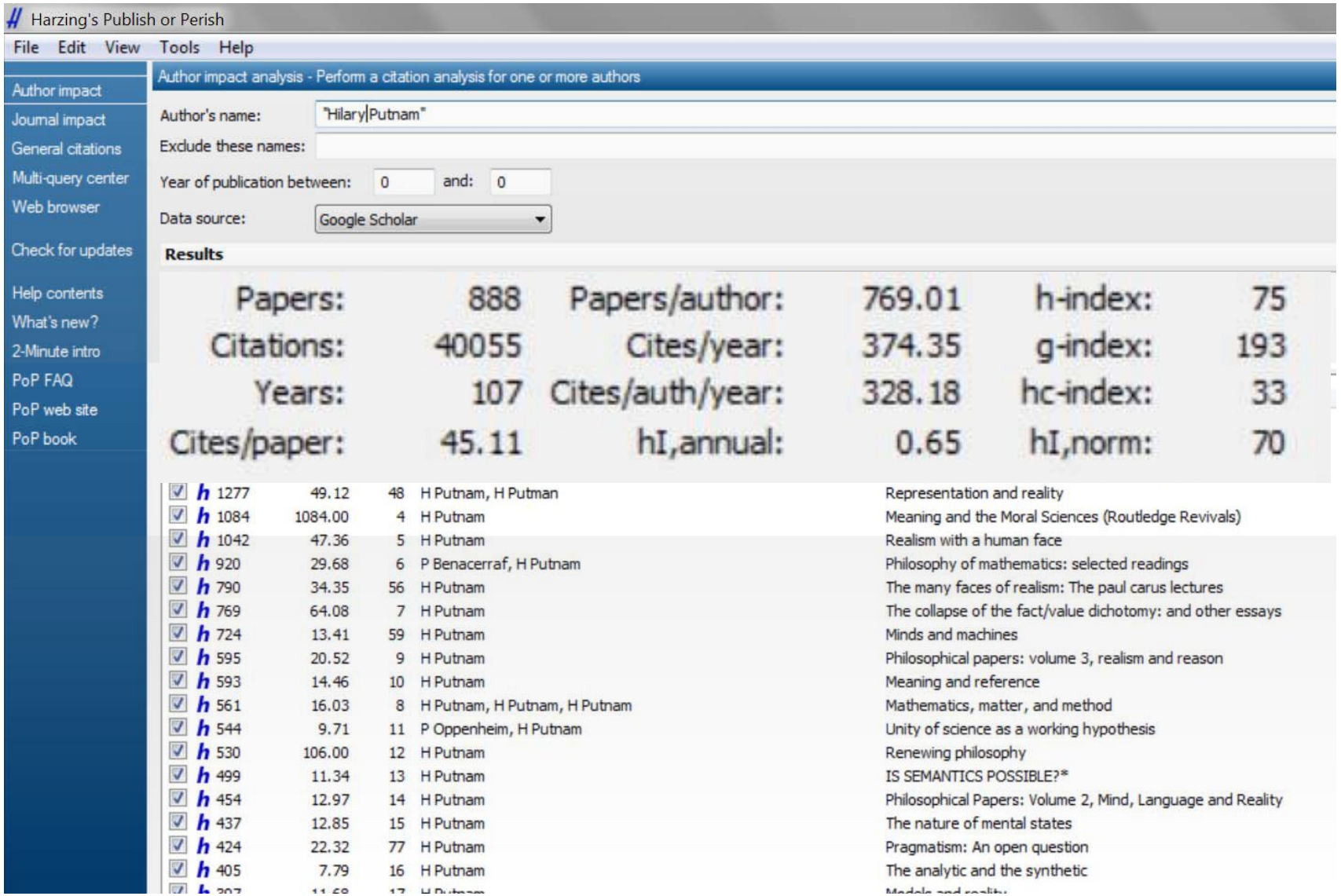
Hilary Putnam



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Author's name: "Jaakko tf1ntikka"

Year of publication between: 0 and: 0

Data source: [Google Scholar •]

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Papers:	783	Papers/author:	634.65	h-index:	58
Citations:	17377	Cit.es/year:	259.36	g-index:	115
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"Jaakko Hlntikka":all
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Cites	Per year	Rank	Authors	
h 1991	38.29	16	J tfmb1cka,J tfmtikka	ntle
h 825	15.87	1	J tfintikka	Knowledge and belief
h 448	10.93	2	J Hinb1cka	Knowledge and belief: an introduction to the logic of the two notion:
h 366	8.13	3	J Hinb1cka	Logic,language-games and information:Kantian themes in the philo Models for modalities: selected essays
h 356	22.25	4	J tfmb1cka	The principles of mathematics revisited Semantics for propositional attitudes
h 349	8.95	5	J Hintikka	Game-theoreticalsemantics: Essays on semantics
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h 311	13.52	73	MB Hintikka,J Hintikka	Impossi le possible worlds vindicated
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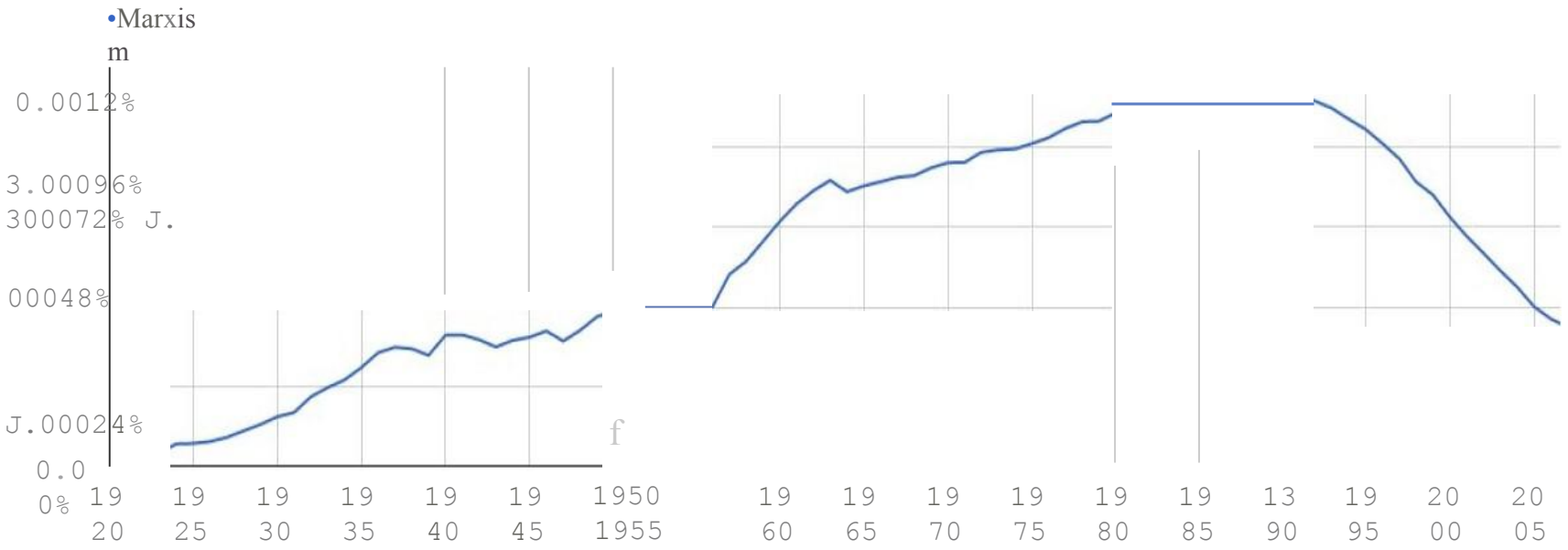

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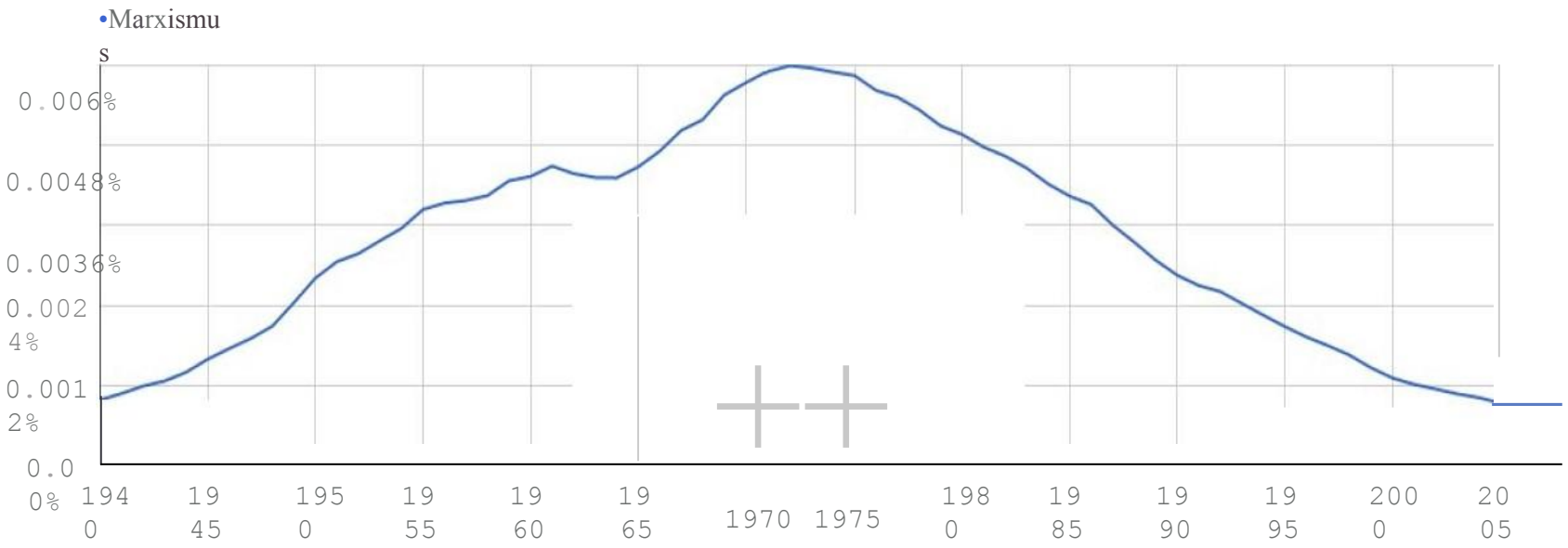

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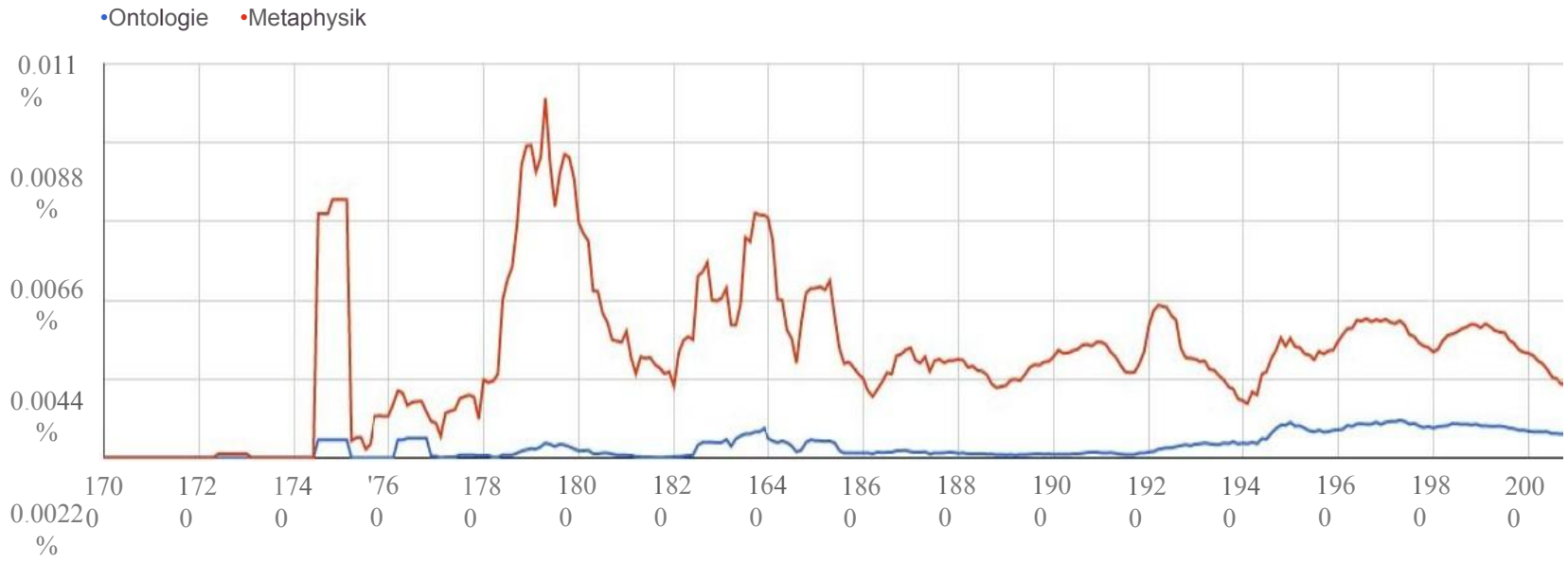

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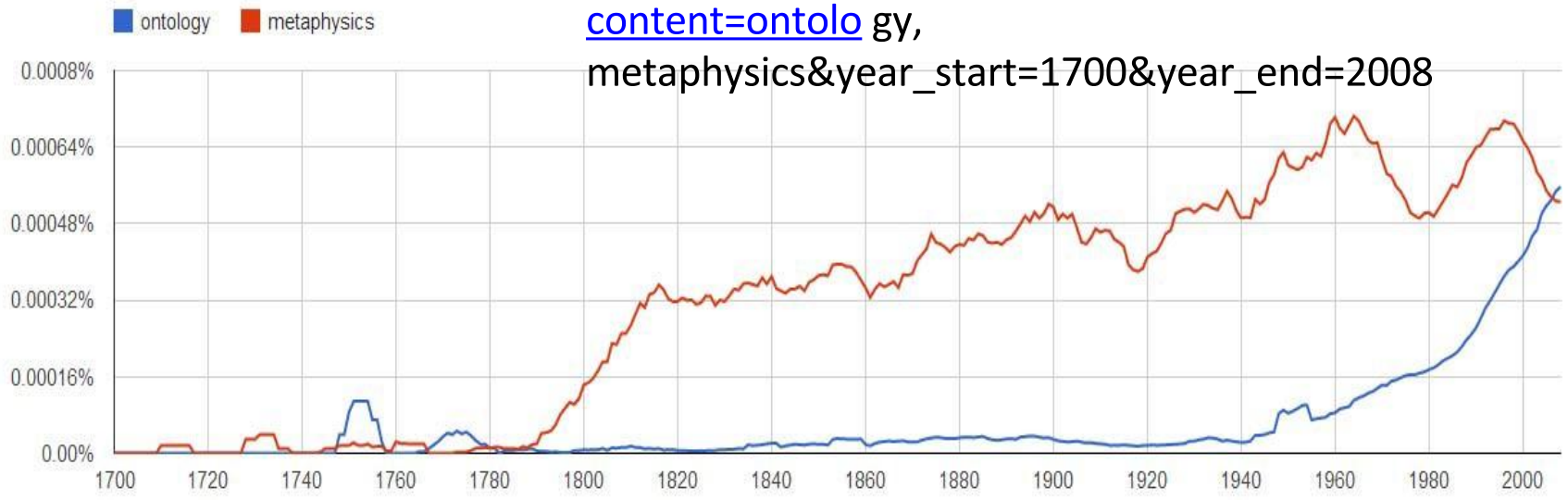

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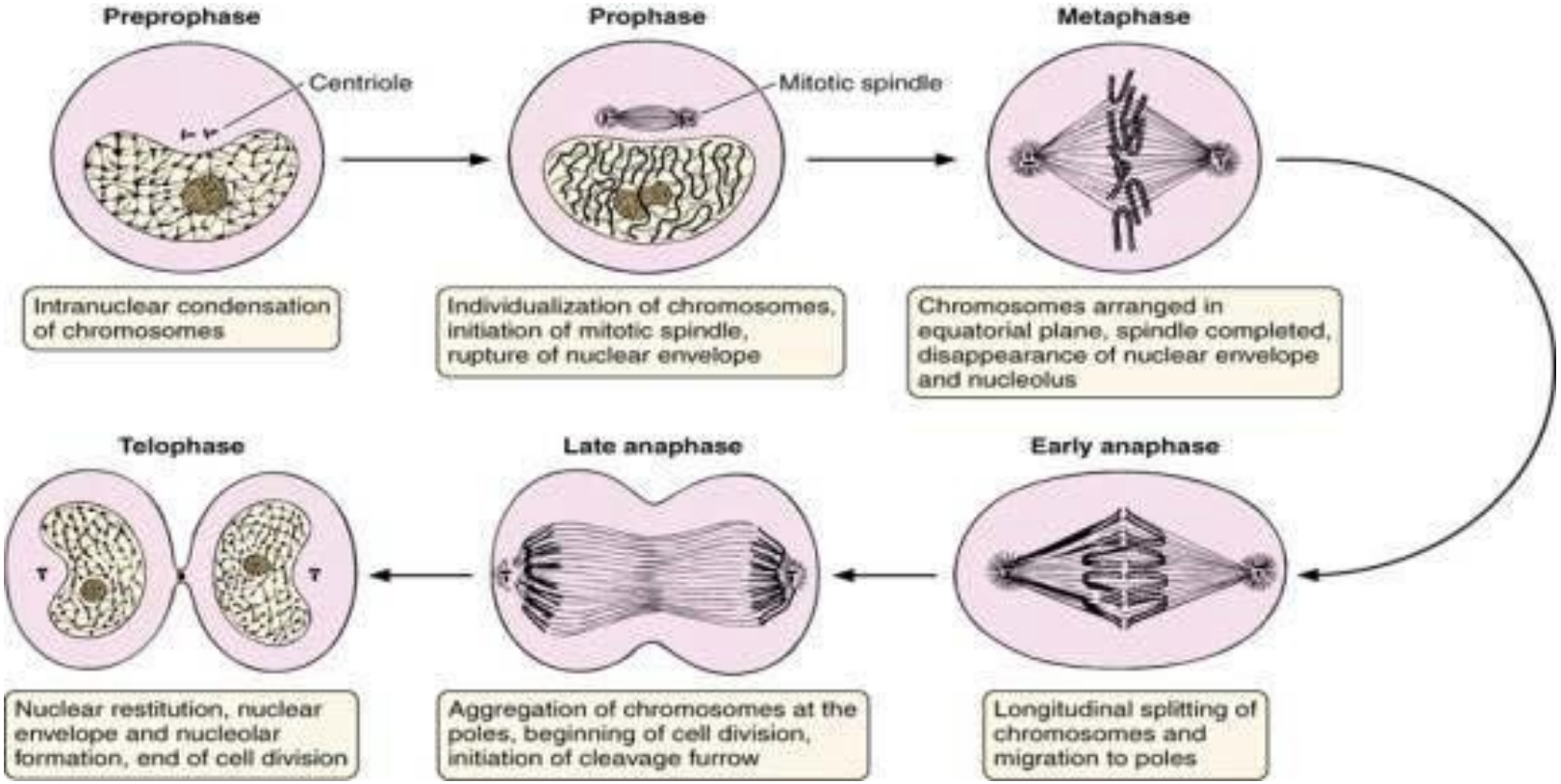
Old biology data



The Gene Ontology

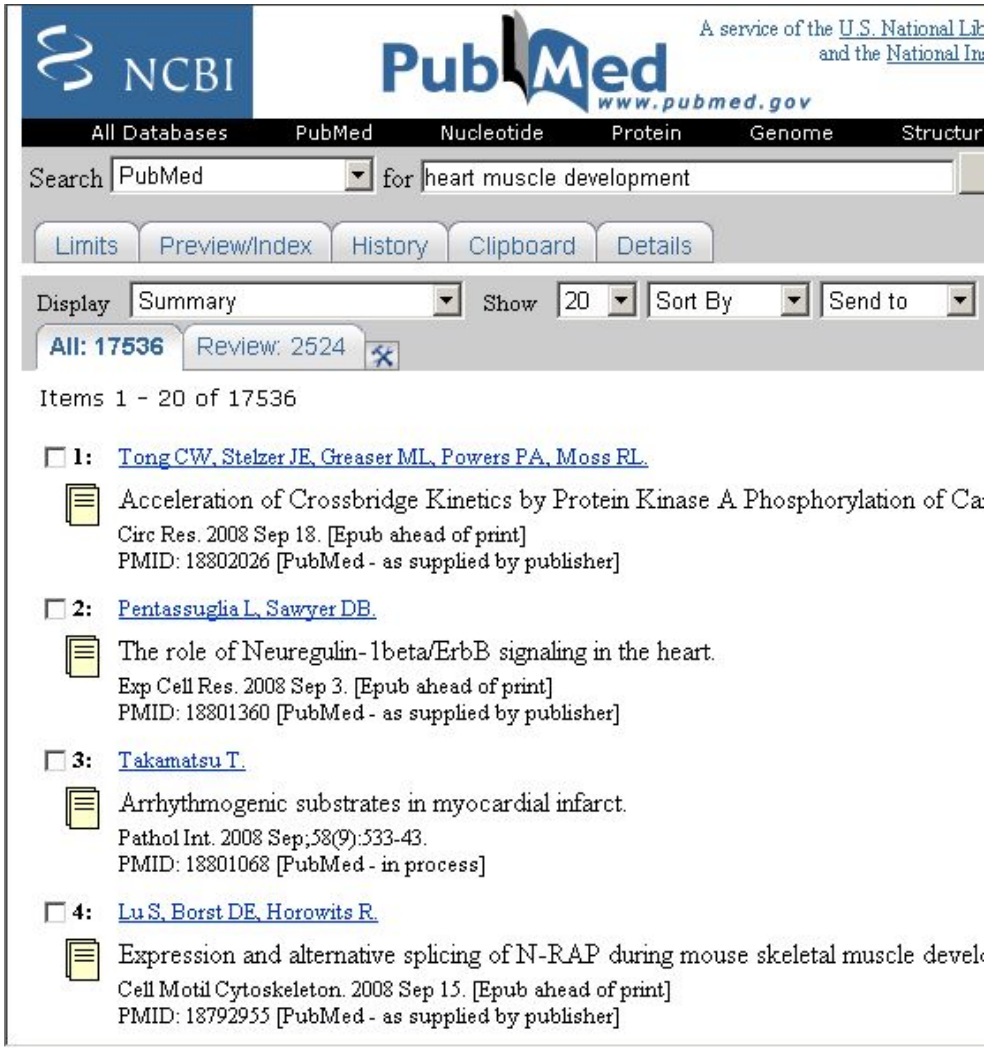
response to the massive opportunities created by the success of the Human Genome Project

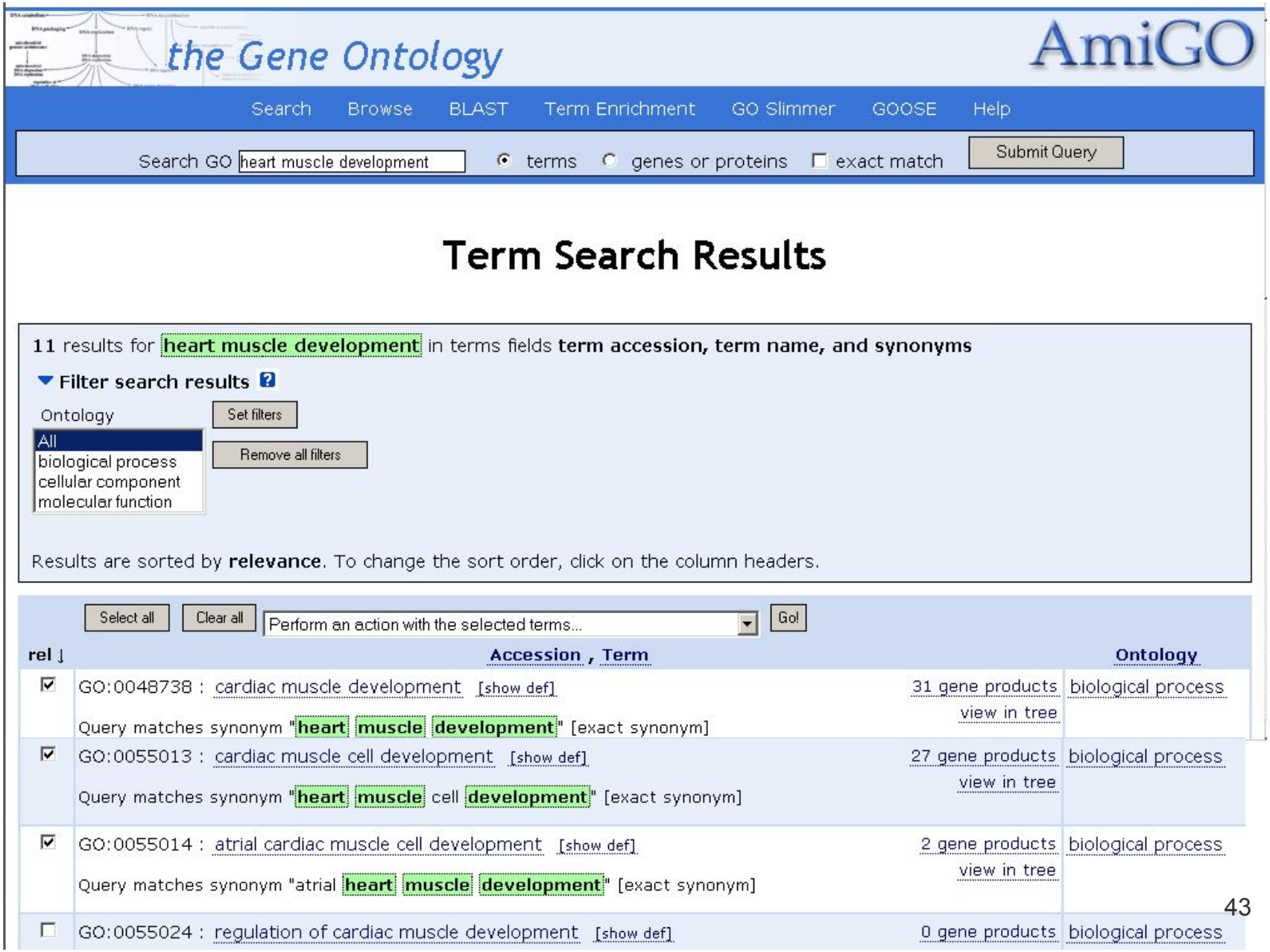
for cross-organism biology for intra-organism biology

for the biology of environments

You're interested in which genes control heart muscle development

17,536 results

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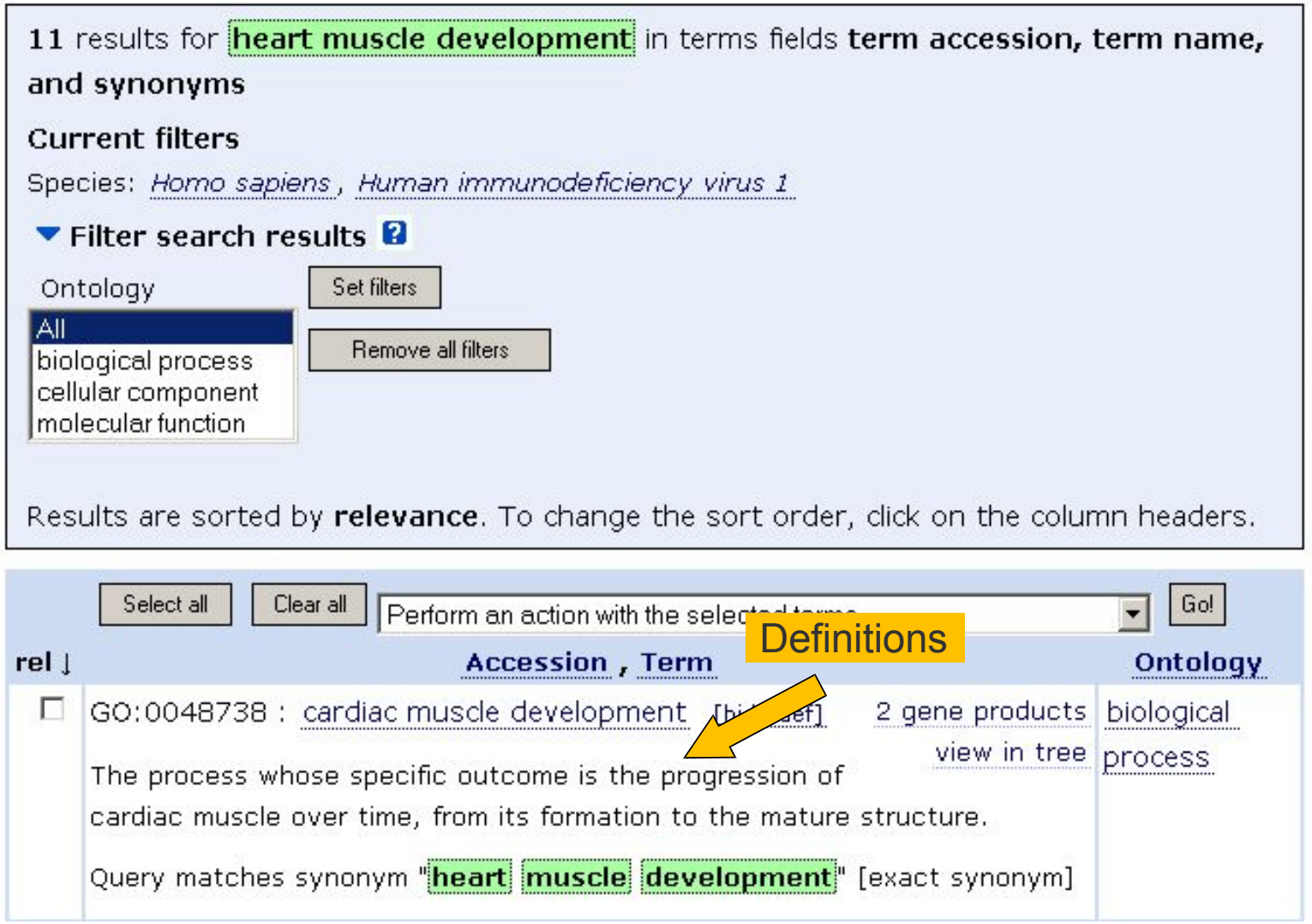

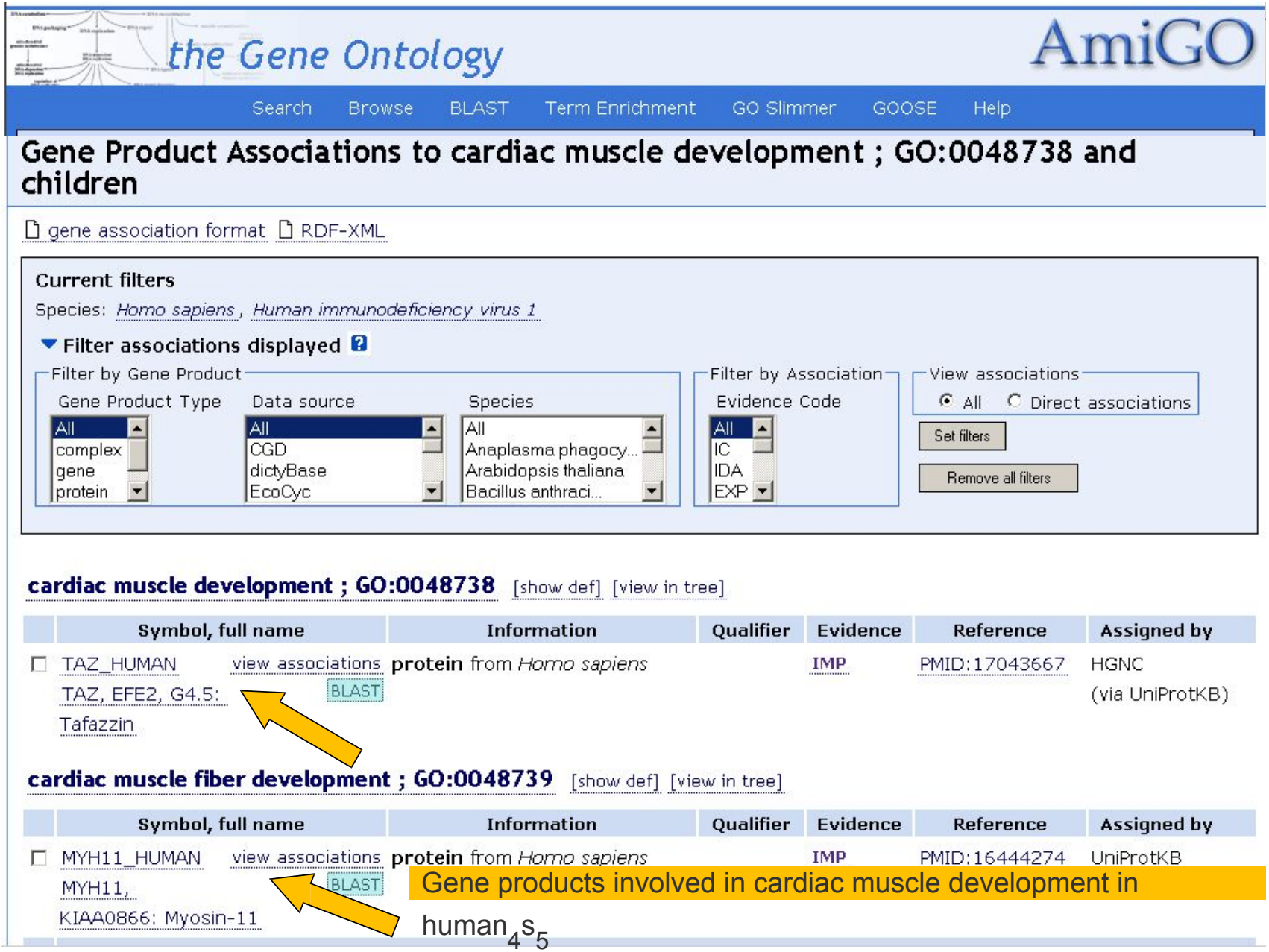
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Wissen strukturieren für den Informatik-Einsatz

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ontology + database	**594K**	**10.20M**
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can be applied to mathematics too

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– consequences still with us

New Possibilities for Massively Planned Social Action

Eric Whitacre's Virtual Choir

Lux Aurumque (2010)

185 voices, 12 countries

Lux Aurumque

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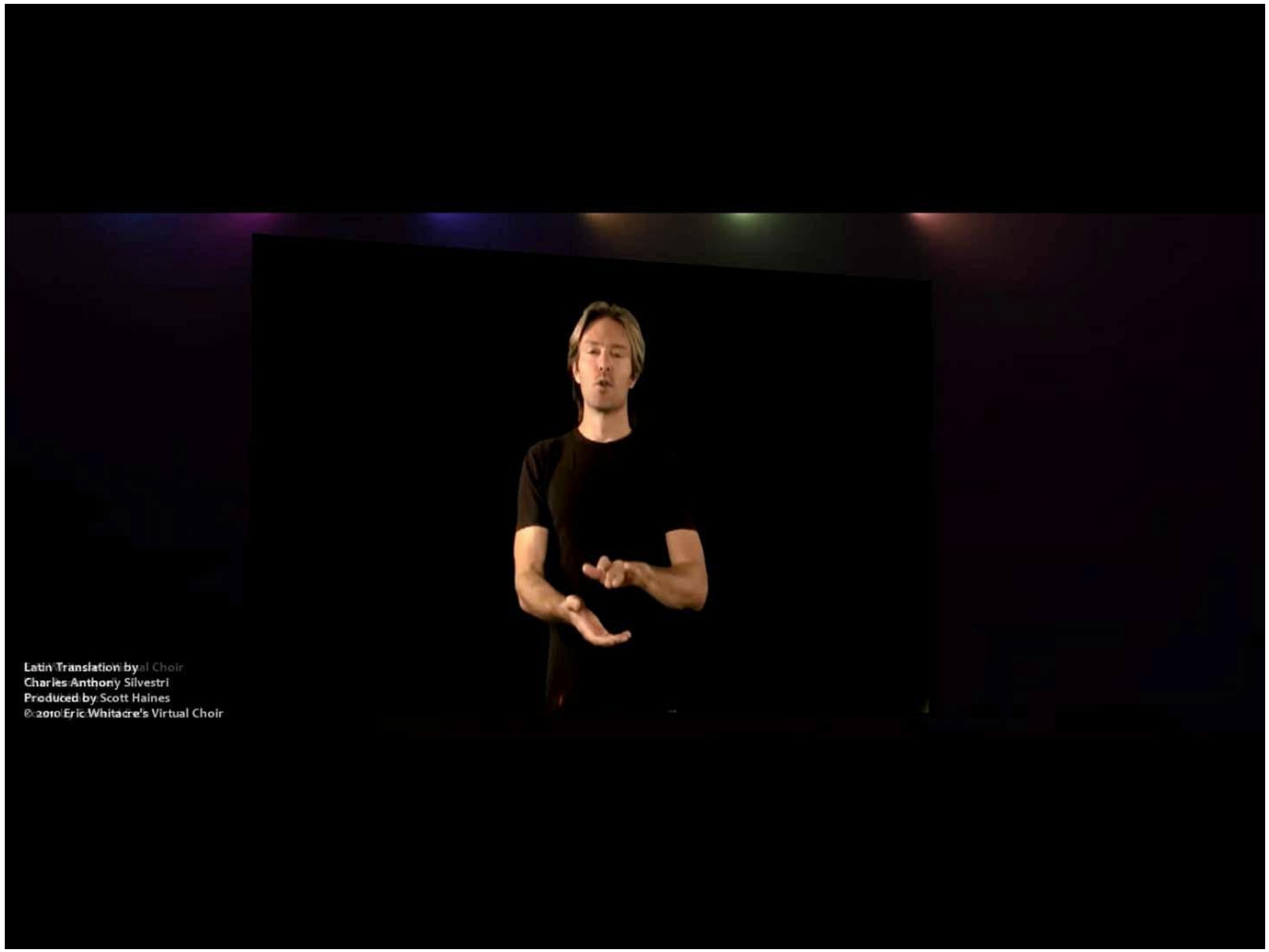

- Eric Whitacre's Virtual Choir 3.0, 3746 vidoes from 78 countries

The meshing of actions of over 3000 people in 78 different countries

- most of whom will never communicate with each other

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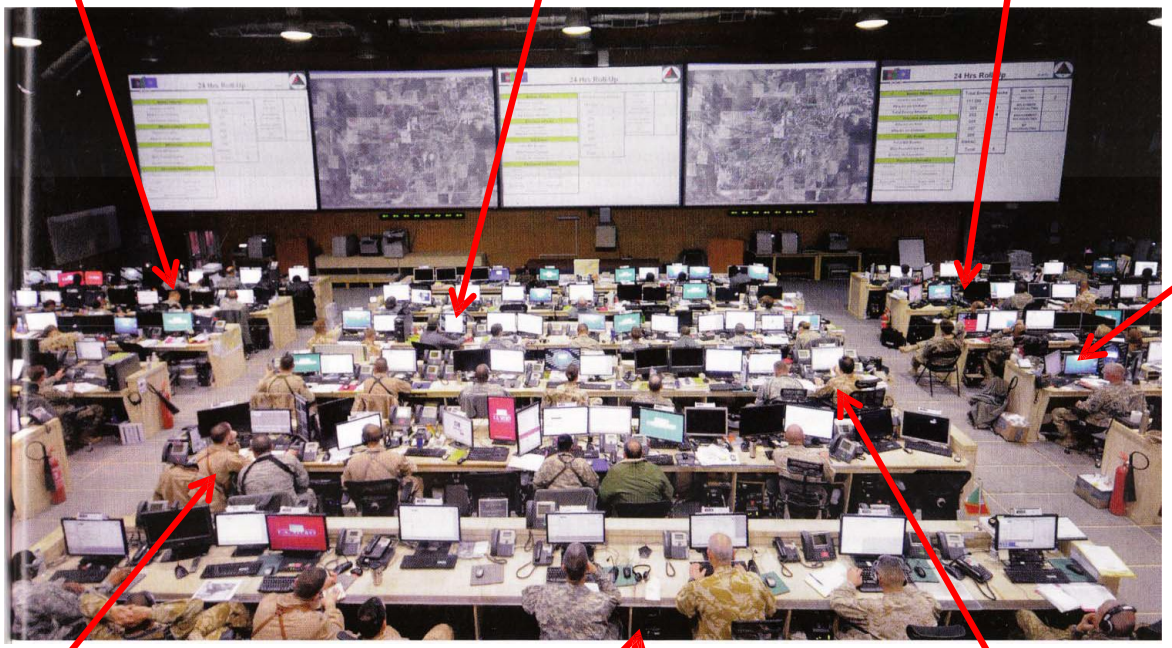
US military operations center in Afghanistan

Warfighters' Information Sharing Environment



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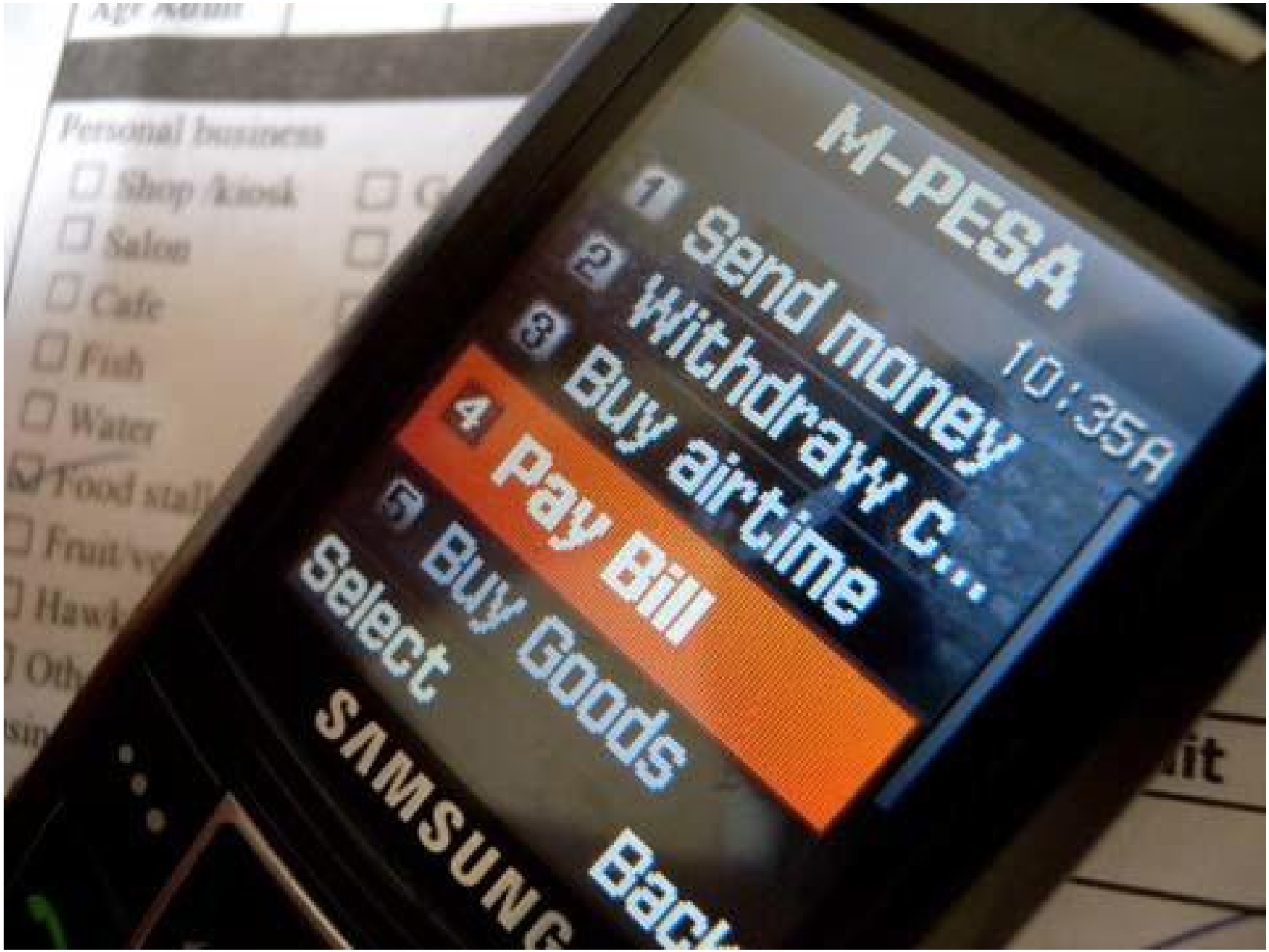
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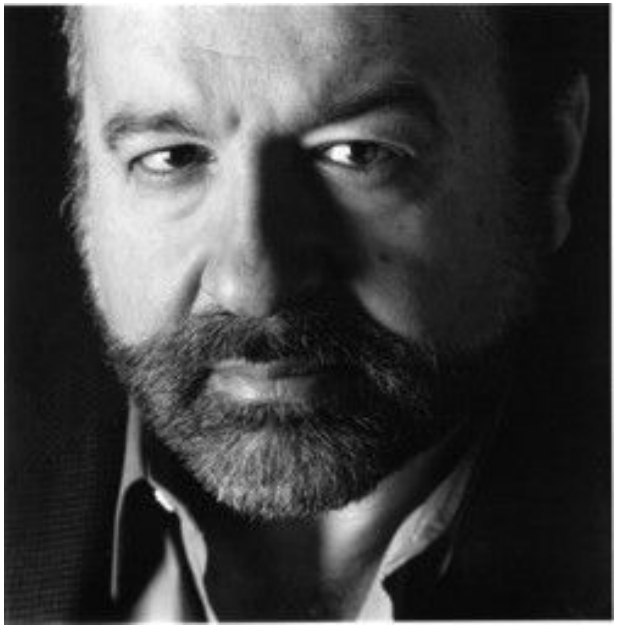
e-people (biology + *Bildungskapital* + intermeshing)

A new theory of personal identity:

You are a biological organism, with plans, skills, and a reputational trail

that is intermeshed digitally with the plans, skills and reputational trails of other human beings

in such a way as to enable new sorts of human achievements in science, culture, commerce, law, war, …



Hernando de Soto

Institute for Liberty and Democracy, Lima, Peru

Bill Clinton:

“The most promising anti-poverty initiative in the world”

de Soto's hypothesis

the development of civilization in the course of history goes hand in hand with the accumulation of documentation

(property titles, registration of persons, professional qualifications, keeping of accounts ...)

The need for a trace

Civilization rests on complex social entities –

claims, obligations, rights, powers, roles, offices

which survive for an extended period of time

What is the physical basis for this extended existence? Not the memories of those involved –but *permanent, re-usable, discoverable* records

These systems of records allowed new institutional

artefacts such as mortgages and insurance to be created

and allowed human beings to acquire the habits and skills needed to participate successfully in

Science of Emerging Media

Barry Smith

From document acts to e-document acts

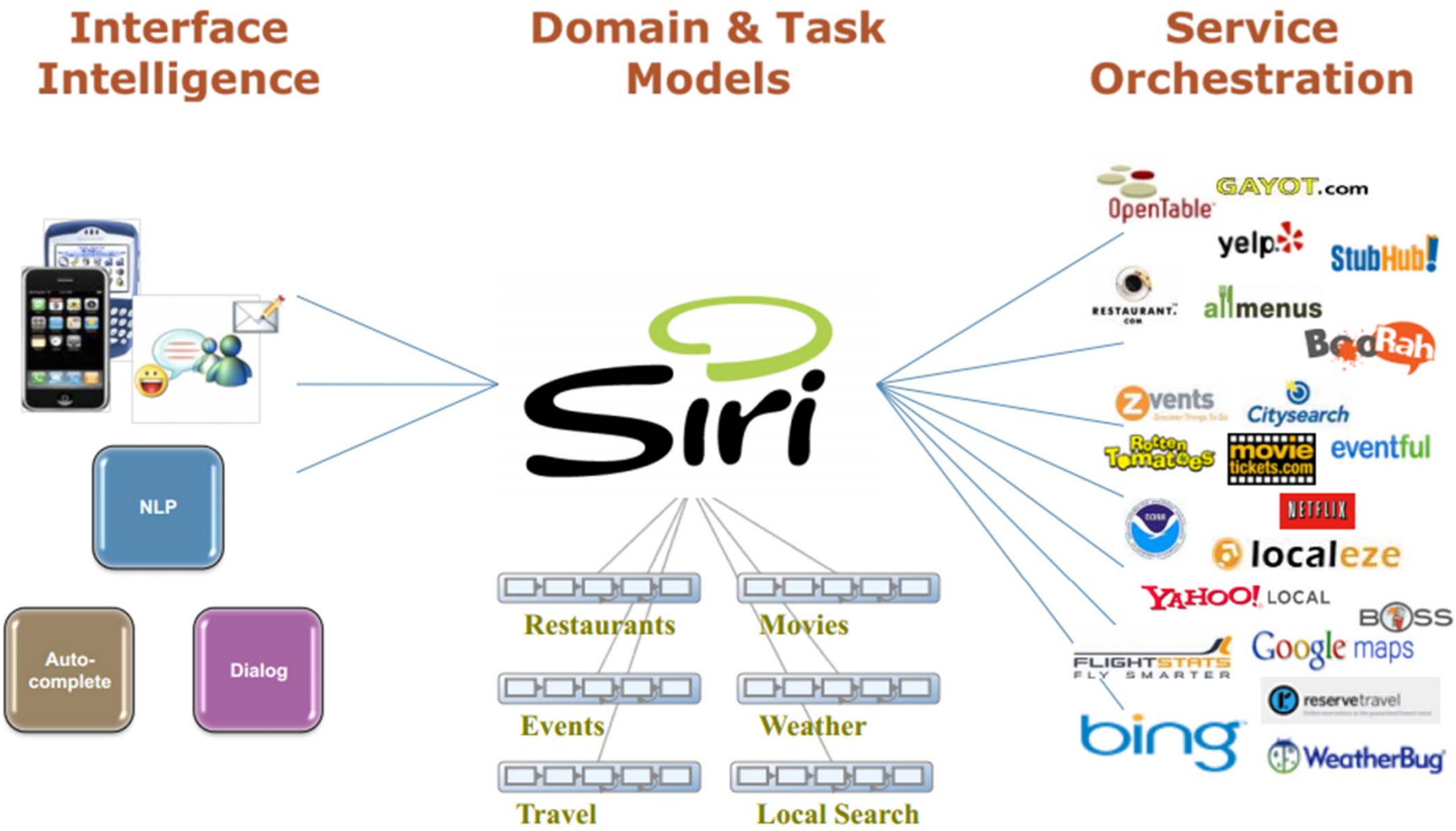
Preamble on ontology

Wherever large bodies of data are gathered together, an ontology will arise

to enable people and computers to make sense of them

– for analysis, comparison, search

“Siri: An Ontology-driven Application for the Masses”, Adam Cheyer and Tom Gruber



BBC Internet Blog

« Previous | Main | Next »

BBC World Cup 2010 dynamic semantic publishing

Post categories: **BBC Sport** **Comments**

The foundation of these dynamic aggregations is a rich ontological domain model. The ontology describes entity existence, groups and relationships between the things/concepts that describe the World Cup. For example, "Frank Lampard" is part of the "England Squad" and the "England Squad" competes in "Group C" of the "FIFA World Cup 2010".

The ontology also describes journalist-authored assets (stories, blogs, profiles, images, video and statistics) and enables them to be

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Mitt Romney

Dave Weaver for The New York Times

News about Mitt Romney, including commentary and archival articles published in The New York Times.

Mitt Romney Chronology

The Caucus

TimesCast Politics Romney Visits the White House
November 29, 2012 2:42pm

Romney Visits the White House
November 29, 2012 1:34pm

For Obama and Romney, Lunch at the White House
November 28, 2012

More posts about Mitt Romney »

Mitt Romney

Mitt Romney at a Glance

Full Name: Willard Mitt Romney

Political Office: Governor of Massachusetts, 2003-2007

Business/Professional Experience: Consultant, Boston Consulting Group, 1975-77, Bain & Co., Boston, 1977-78, vice president, 1978-84, chairman, CEO, 1991—2001; managing partner, CEO Bain Capital, Inc., 1984—2001; president, CEO Salt Lake Organizing Committee (Winter Olympics), Utah, 1999—2002

Date of Birth: March 12, 1947

Place of Birth: Detroit, Mich.

Education: B.A., Brigham Young University, Provo, Utah, 1971; J.D., Harvard Law School, 1975; M.B.A., Harvard Business School, 1975

Social reality is being changed by massive digital networking

Searle's *Speech Acts* (1969)

Regulative Rules

merely regulate antecedently existing forms of behaviour, as rules of polite table behaviour regulate eating

Constitutive Rules

create new forms of behaviour, as the rules of chess *create the very possibility of* our engaging in the type of activity we call playing chess

Searle:

Speech acts are acts performed by uttering expressions in accordance with certain constitutive rules

When you perform a speech act then you create certain institutional facts

Institutional facts

exist because we are able to treat the world and each other in certain, very special (cognitive) ways

Examples of institutions:

- **money**
- **property**
- **marriage**
- **government**

Institutional facts exist because of language use, law and psychology

Searle: there is a level of brute facts

– constituted by the facts of natural science

and independent of all human institutions,

From out of this there arises a hierarchy of institutional facts at successively higher levels.

Built up through the operations of language use, law and psychology

But there is something missing here

People are changed in virtue of the fact that the world they live in is digitally intermeshed

Can **we draw a line, here, between brute facts and institutional facts?**

Consider: Reputation

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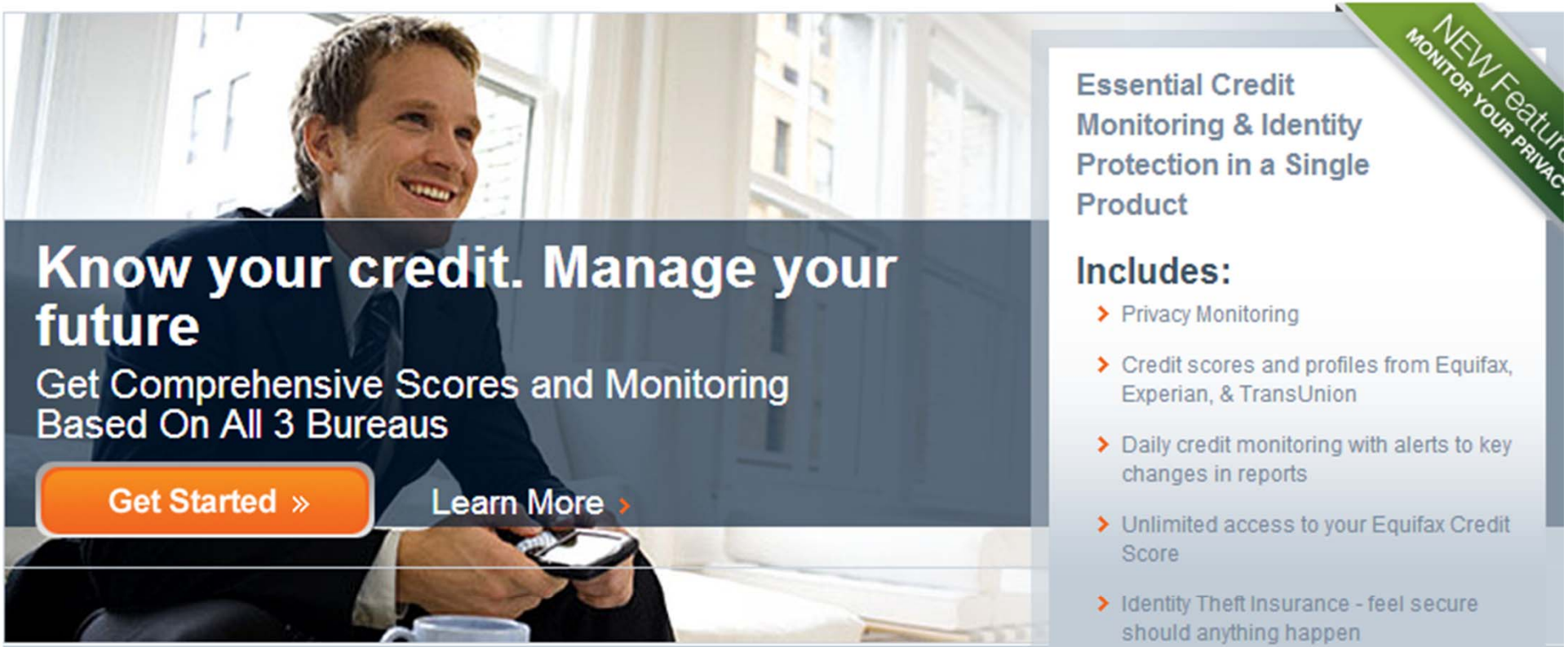

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AVAILABLE CHOICES

Uber allows customers to rate *drivers*

for punctuality, cleanliness, and so forth. You can then ues these ratings in making bookings in the future.

But then, when they leave the taxi, *the drivers rate the customers*, and these ratings too are stored in the system and used by *drivers* in the future

Behind the scenes, good behavior is being rewarded and bad behavior punished

customers who vomit in the cab, or who refuse to pay, or who behave aggressively will find themselves restricted in their use of Uber in the future

First hypothesis

In the era of emerging media all of the following are being radically transformed:

- **Reputation**
- **Guarantees**
- **Institutions and institutional fact**
- **Social interactions**
- **Commercial interactions**

Second hypothesis

In the era of emerging media the idea that there are just two levels:

brute facts of physics

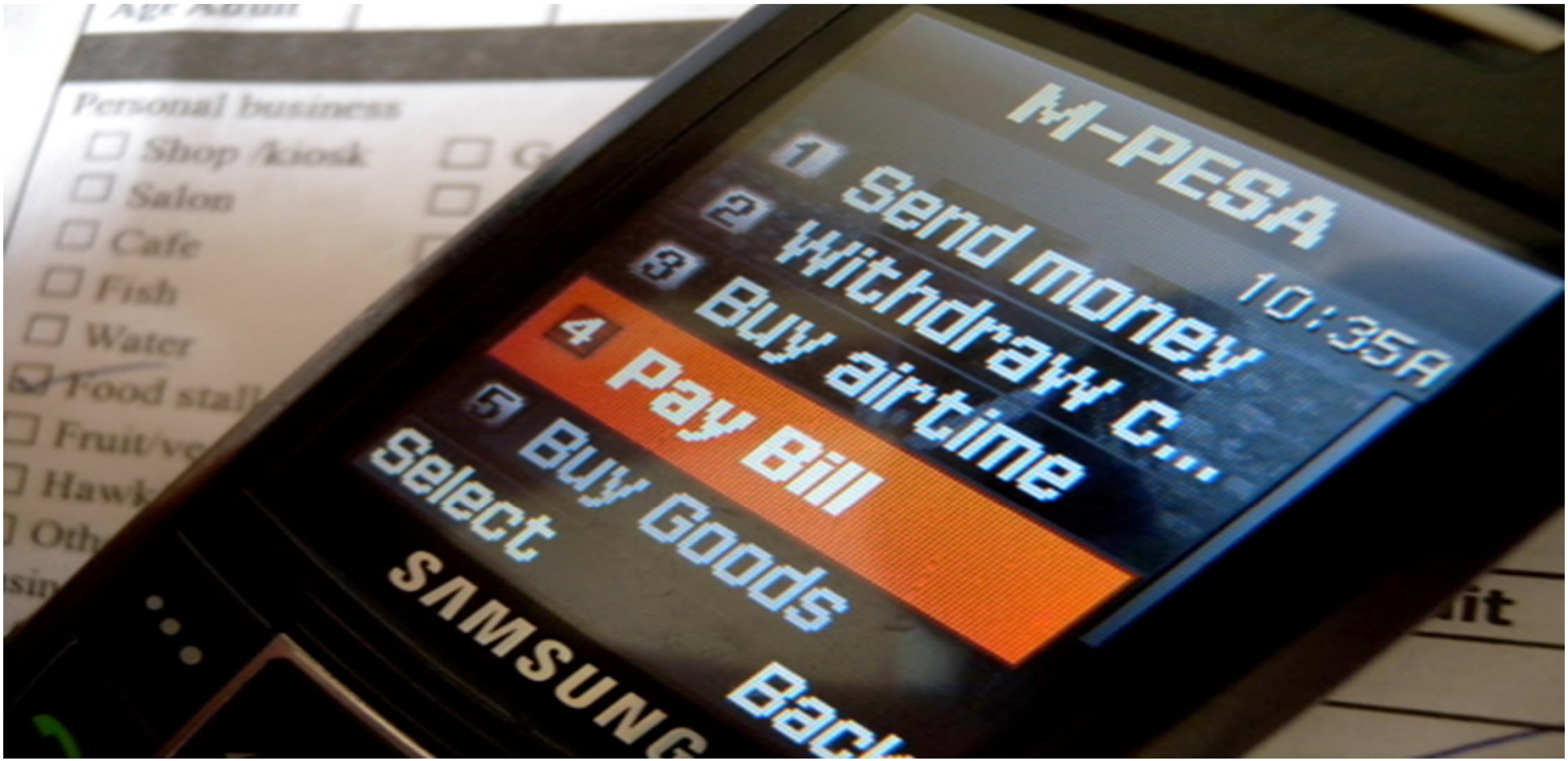
institutional facts resting on language use + law + psychology

breaks down

in both their structures and in their dynamical unfolding institutional facts are digitally shaped

How family life changes

How commerce changes



How philosophy changes – first, practically all literature is available on demand

John R. SEARLE

University of California, Berkeley
Unknown interests
Verified email at berkeley.edu
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The construction of social reality JR Searle SimonandSchuster. com	5498
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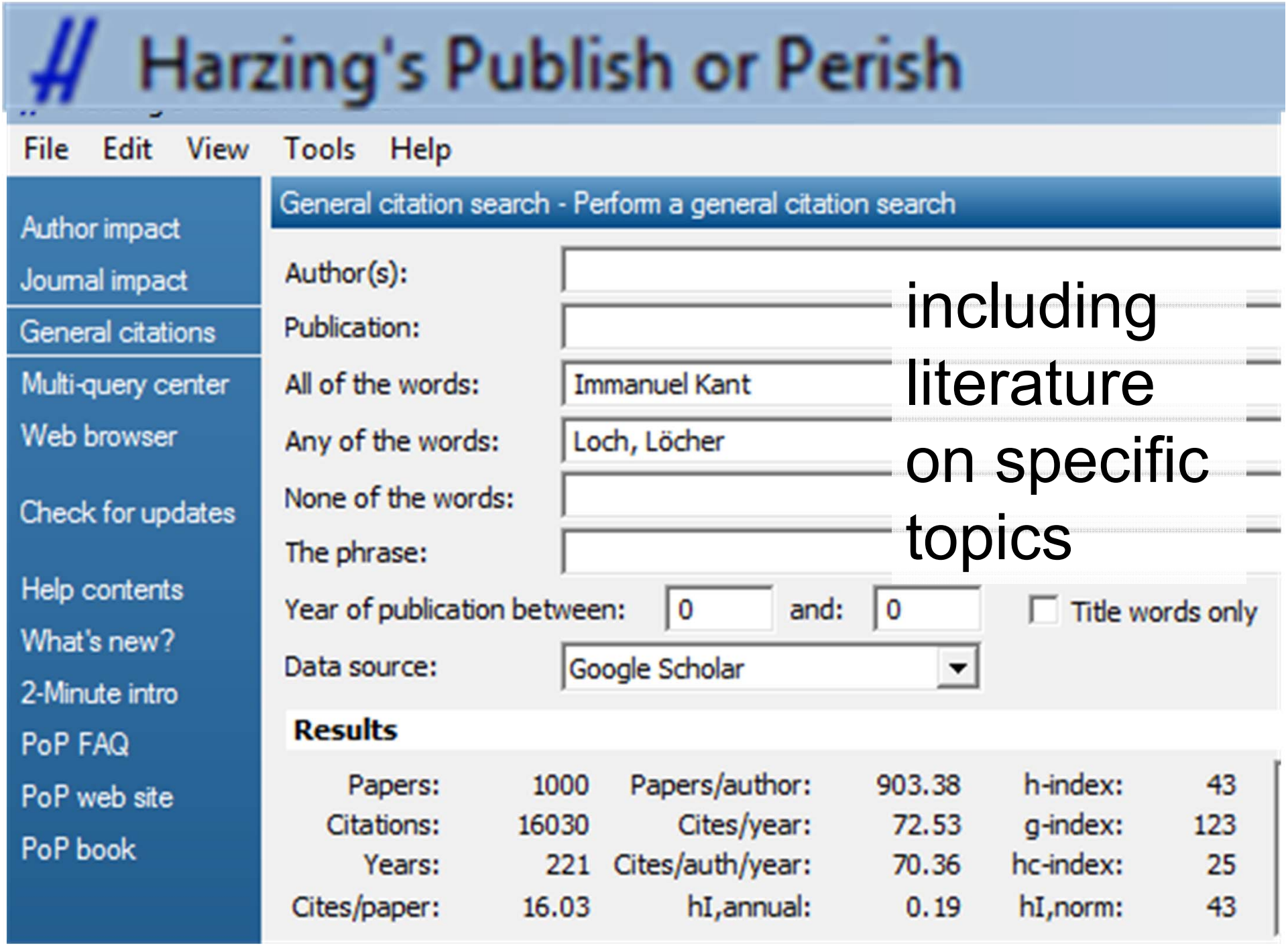


including literature on specific topics

How science changes

23andme.com

Wojcicki's goal is to sign up a million customers to send in their DNA. "Big data is going to make us all healthier. What kind of diet should certain people be on? Are there things people are doing that make them really high-risk for cancer? There's a whole group of people who are 100-plus and have no disease. Why?" As of September 2013, 23andMe had 400,000 genotyped customers.

Aging research

morphs with

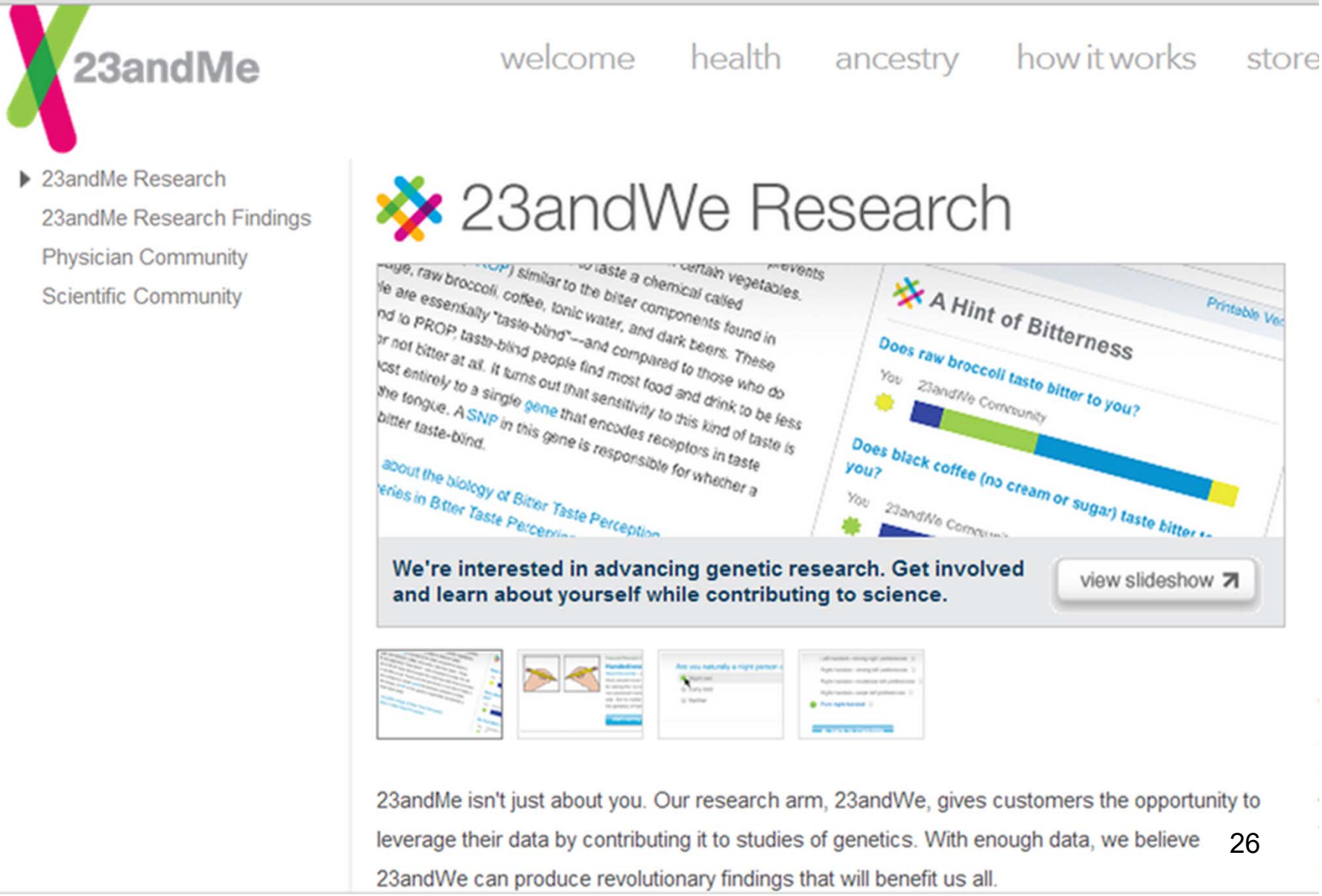
Dating service

Designer baby service

Missing-relative-search service

Creates new miniature civil societies around diseases

23andWe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welcome
health
ancestry
how it works
store
23andMe Research
23andMe Research Findings
Physician Community
Scientific Community
23andWe Research
A Hint of Bitterness
Does raw broccoli taste bitter to you?
You
23andMe Community
Does black coffee (no cream or sugar) taste bitter
you?
We're interested in advancing genetic research. Get involved and learn about yourself while contributing to science.
view slideshow
23andMe isn't just about you. Our research arm, 23andWe, gives customers the opportunity to leverage their data by contributing it to studies of genetics. With enough data, we believe 23andWe can produce revolutionary findings that will benefit us all.

How warfare changes

The reality is that soldiers are now a form of information technology, responsible for a far broader range of roles, decisions, and systems-based interactions than in any previous conflict. … Today soldiers' skills are measured largely in relation to the technological systems the soldiers will be using. (Corey Mead, *War Play: Video Games and the Future of Armed Conflict*, 2013)

People change

- ***Old theory of personal identity:***

You are a biological organism, with plans, skills, and a reputational trail

- ***New theory of personal identity:***

your plans, skills, and reputational trail becoming intermeshed digitally with the plans, skills and reputational trails of other human beings

– making possible new kinds of plans, new kinds of achievements, new kinds of societies

The science of emerging media

The science of how people and societies are changing as a result of digital intermeshing

The science of how people are using digital intermeshing as a way of changing people and societies

People are changed in virtue of the fact that the world they live in is digitally intermeshed

- People are changed by the fact that the computer can train them to improve their performance through tiny adjustments of the same act repeated 100s of times
- Societies (for example an Army platoon) are created by the fact that the computer can train them to improve their performance through tiny adjustments of the same interaction repeated 100s of times

What are the fetures of emerging media

W. Russell Neuman (1991)

a) alter the influence of distance,

b) increase the volume and speed of communications,

c) enable interactive communications

d) permit the merging of media forms.

Now we need to add:

e) create new kinds of digital entities – as for instance in the realm of financial derivatives

f) create new forms of human interaction

g) forces technology of overviews

h) brings everything into the open (and thereby enables plagiarism, rediscovery-of-the-wheel*, and fraud detection in ways that are already changing science)

*Cf. Academic Questions 2013
http://www.nas.org/articles/dismissive_reviews_academes_memory_hole

The contribution of internet ranking systems to the development of human capital

RATE MY PROFESSORS
Professo
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About
Top Lists
Professors Strike Back
Hi, Guest! [create account | login]
User Comments and Ratings
Professor Feedback
DATE
CLASS
RATING
COMMENT
12/5/10
Phi337
Good Quality
Easiness
Helpfulness
Clarity
Rater Interest
Grade Received
N/A
If you attend every class, and listen to what
Enjoyed his class. He's a very nice prof!
10/14/10
PHI337
Good Quality
Easiness
Helpfulness
Clarity
Rater Interest
Grade Received
N/A
Loved this class so much. And prof is funny,

“Delicious Italian Food!”

Review of Cipollina Rustic Italian Kitchen

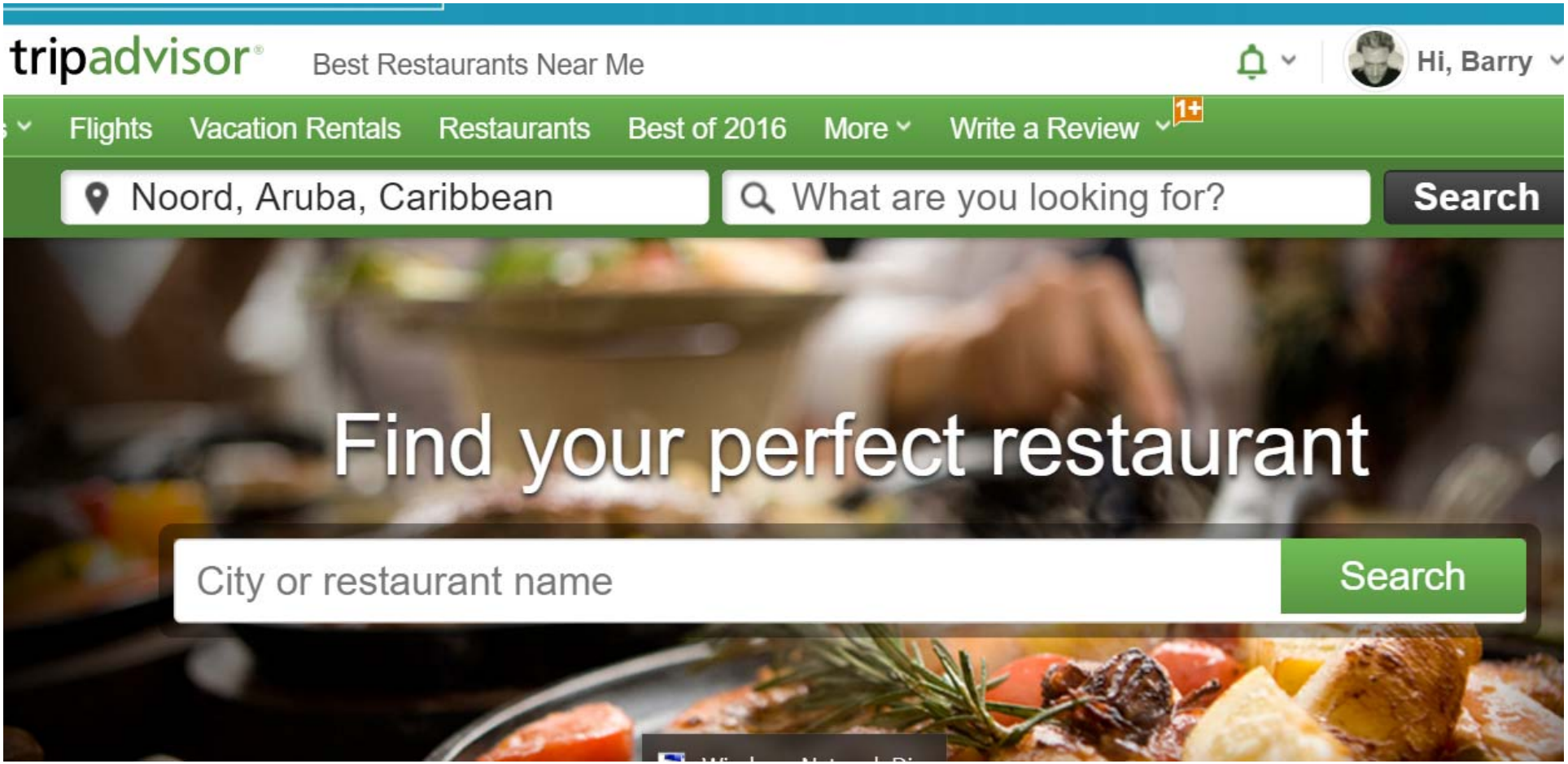
Cipollina Rustic Italian Kitchen

6 Clinton St, Akron, NY 14001 716-542-5440

Website Improve this listing

Got a photo?
Add it.

Best restaurants near me



d and Be Recommended – In the following 3 categories: Professional, Personal, Dating**Peeple Number –**Your Peeple Number is the total number of recommendations you have received in all 3 categories

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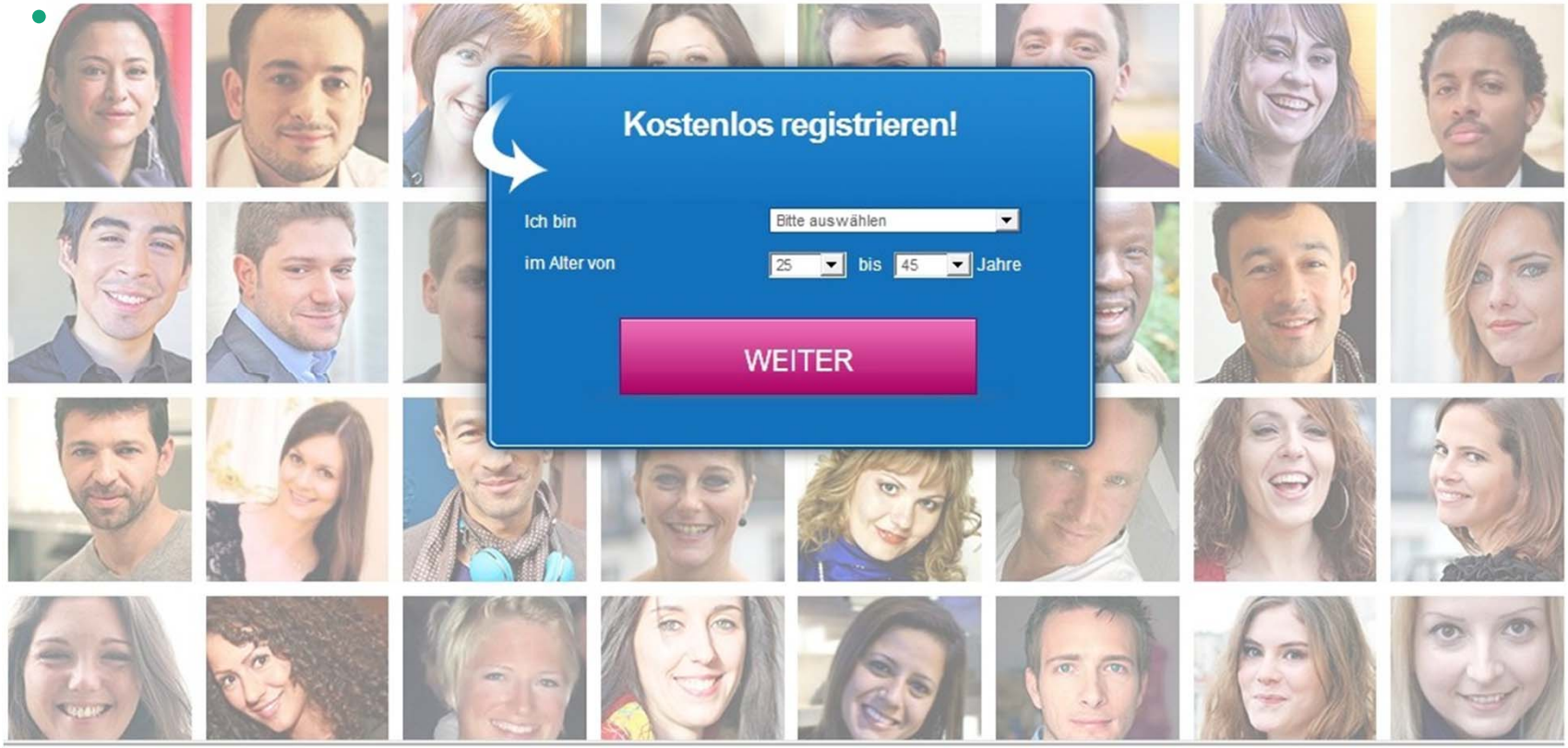

It starts here.

Friends, dates, relationships, and everything in between.

Identity documents

- create identity (and thereby create the possibility of identity theft)
- what is the ontology of identity?
- what is the epistemology of identity (of the technologies of identification)?

serial personae for one real person

- last surviving soldier in battle takes on the persona if one of his comrades
- homosexual using heterosexual persona
- police persona (when wearing uniform)
- *ex officio* persona
- fake persona (adopted to escape consequences of a crime, or to fake one's own death)
- fake policeman (put on a policeman's uniform)
- fake priest
- fake identity adopted on the web e.g. by stalker
- a catfish is someone who pretends to be someone they're not using Facebook or other social media to create false identities, particularly to pursue deceptive online romances
- witness protection
- legend (cover, of field agent, of undercover police) x

single persona for multiple real people

- family (The Smiths) use a single email address to register for places where you fear spam
- business – web advertising
- Your country needs you!

single persona copying a single real person

- represented in a play, or in a puppet show, or in a *roman à clef*
- avatar in second life

Simple on-line rating systems
improve our lives

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My Rent Search Moving Center $1C

FREE Houses For Rent Search

When you're looking for rentals, it helps to know where to start. You're in luck. Rent.com has the rentals you're looking f< Search for your next apartment,condo,or house on Rent.com and get moving.

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VIEW THE LATEST LISTINGS

to $5000+

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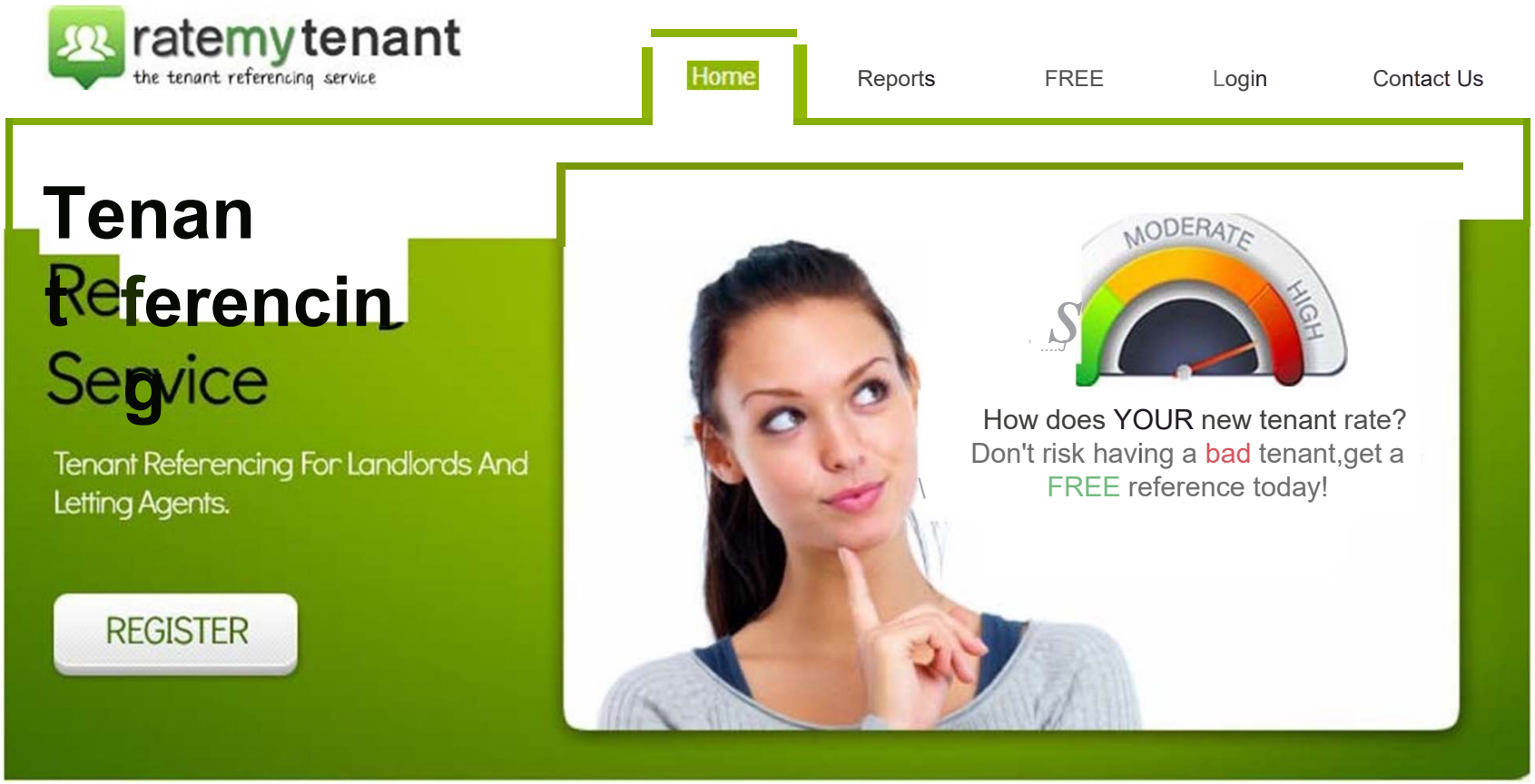

Tenant

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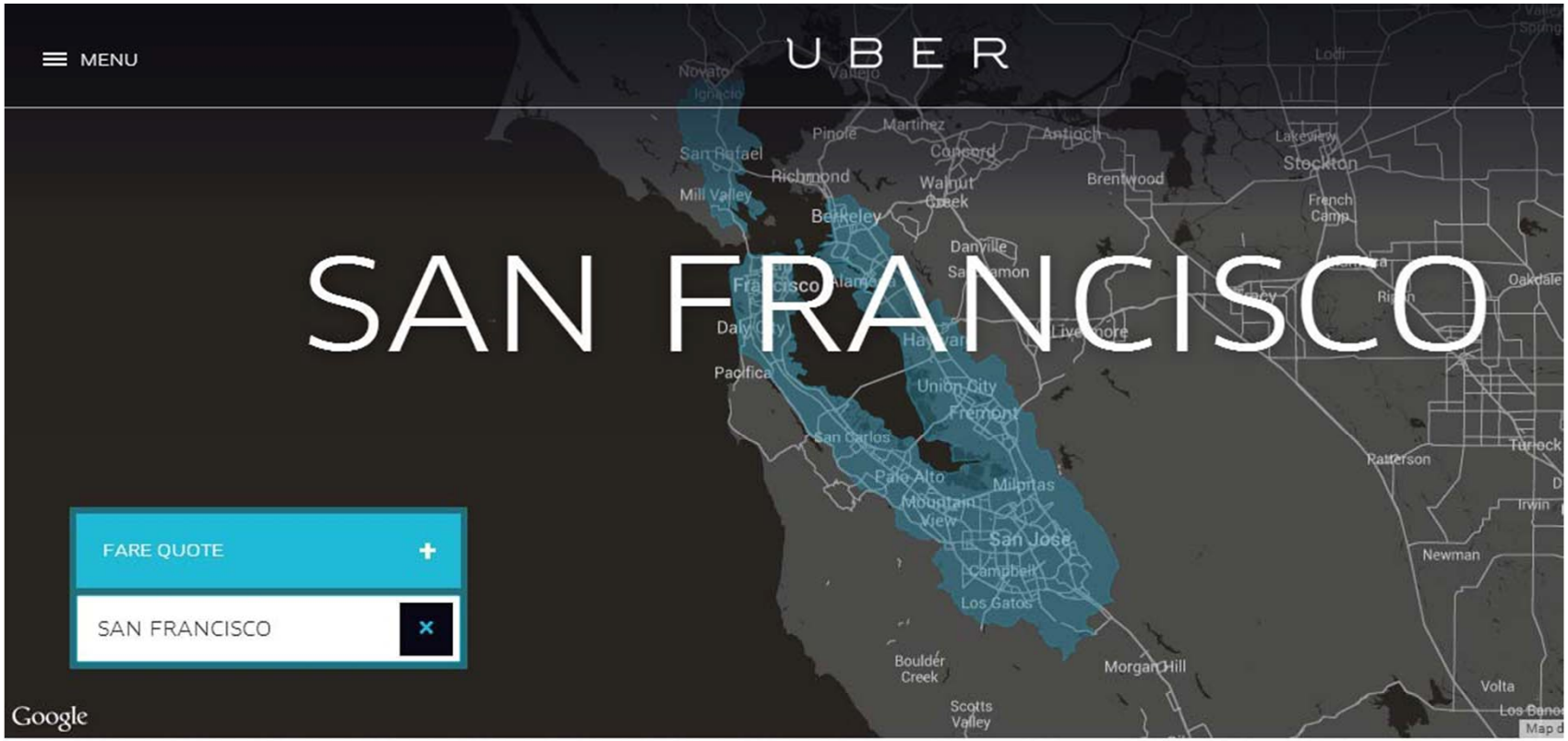
Tenant Referencing For Landlords



A taxi-summoning app

Uber allows customers to rate drivers

- for punctuality, cleanliness, and so forth. You can then ues these ratings in making bookings in the future.

But then, when the leave the taxi, the drivers rate the customers, and these ratings too are stored in the system

Behind the scenes, good behavior is being rewarded and bad behavior punished

customers who vomit in the cab, or who refuse to pay, or who behave aggressively will find themselves restricted in their use of Uber in the future

e-people

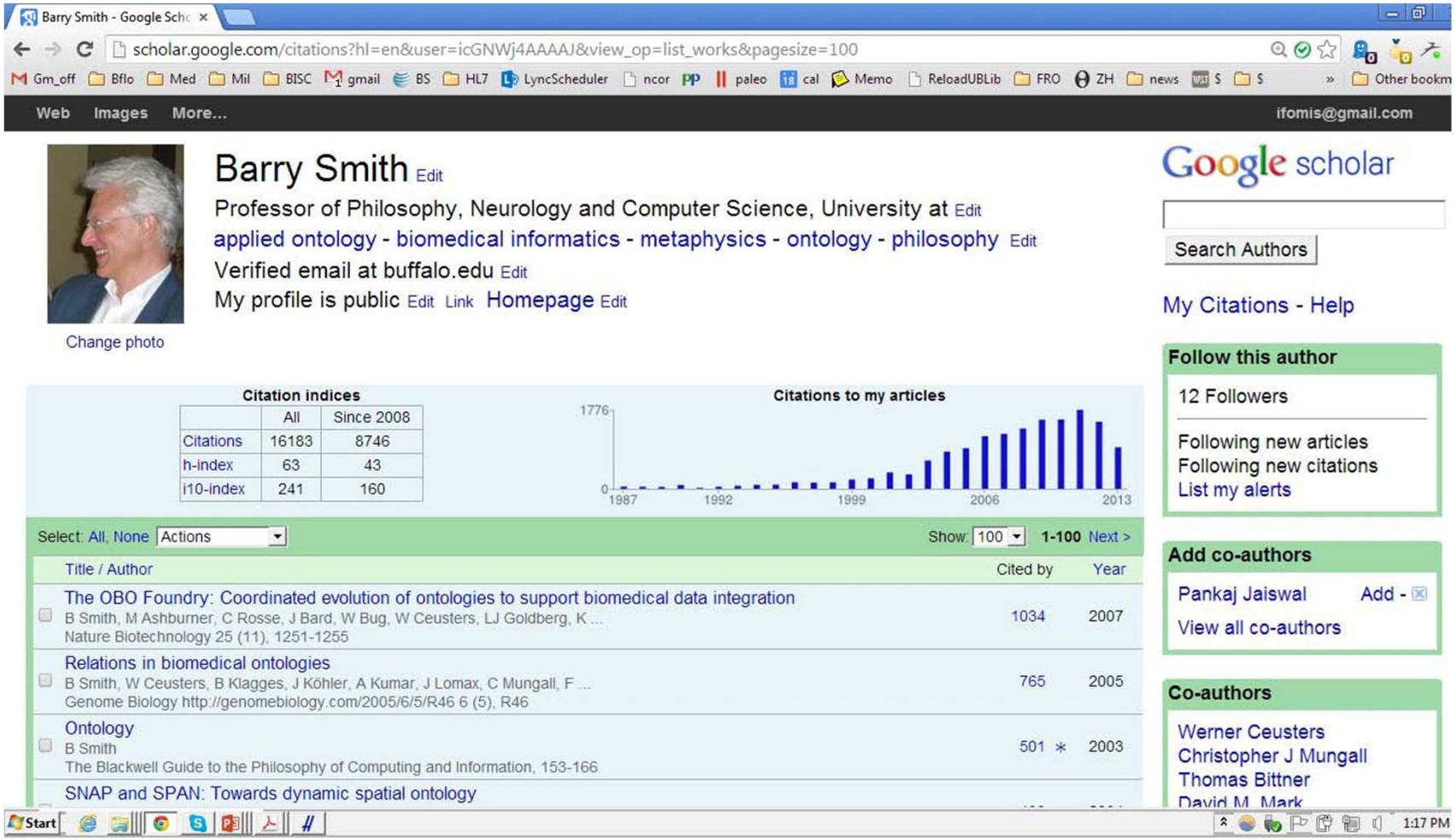
A new theory of personal identity:

You are a biological organism (with plans, skills, qualifications, titles, etc.) *together with a reputational trail*

– increasingly, your reputational trail is a matter of your rankings on internet ranking sites

– including more or less secret rankings on cites such as Uber, match.com, and SCHUFA

For academics, today, the most important ranking site is google



Barry Smith

Professor of Philosophy, Neurology and Computer Science, Universit

applied ontology - biomedical informatics - metaphysics - ontology - philosophy

Verified email at buffalo .edu

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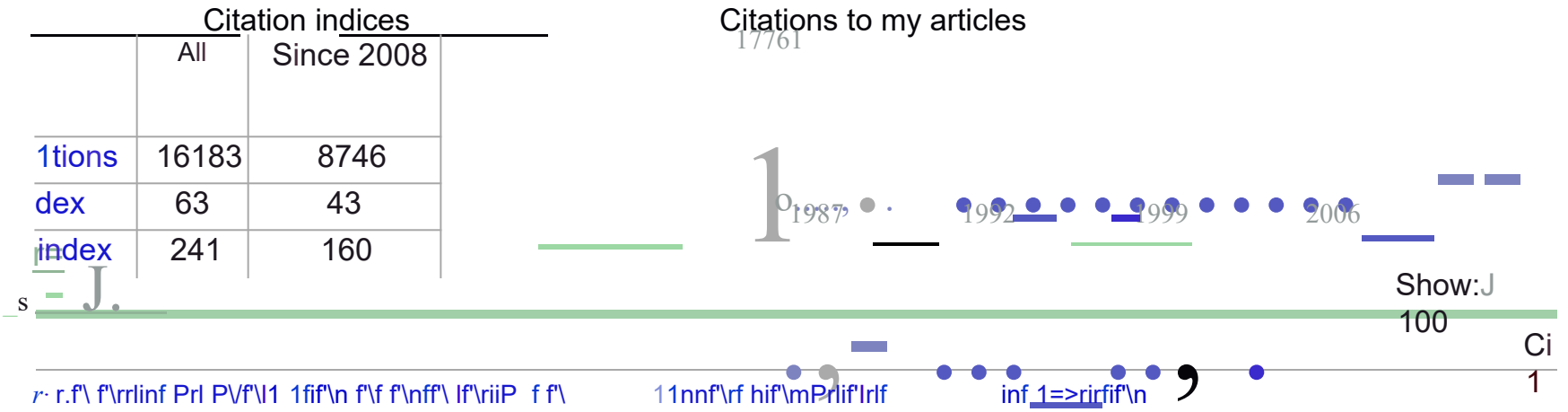

Barry Sm th

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David Chalmers
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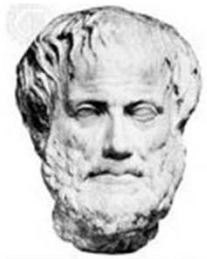

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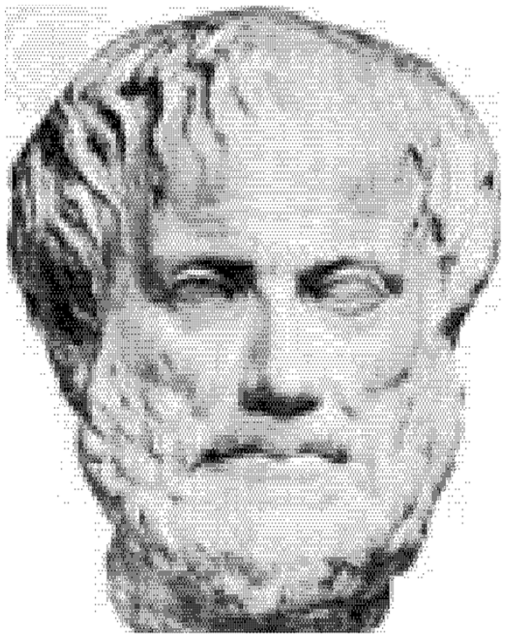

Aristotle

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Barry Sm th

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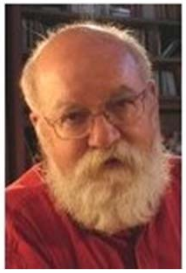

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Co-Director,Center for Cognitive Studies,Professor, Philosophy Dept,Tufts University
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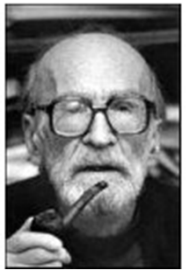

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Professor of Religious Studies,University of Chicago
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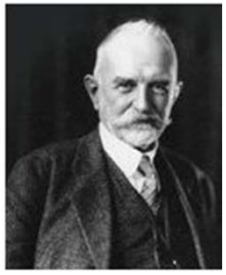

George Herbert Mead
Sociology,University of Chicago
Cited by 35288
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David Bohm
None
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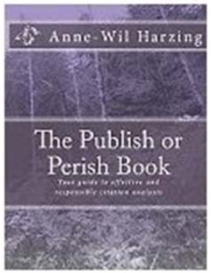

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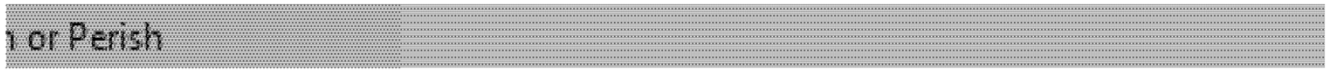

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Tools Help

Author impact analysis - Perform a citation analysis for one or more authors

Author's name: "Immanuel Kant"

Exclude these names:

of	0	0
source:	gle Scholar	

Results

Papers	1000	Papers/author	823.86		111
Citations:	97087	Cites/year :	373,,	Q"-index	295
Years		Cites/auth/year		hI-index	
Cites/paper :	97.	hI,annual	.39	hI,norm	

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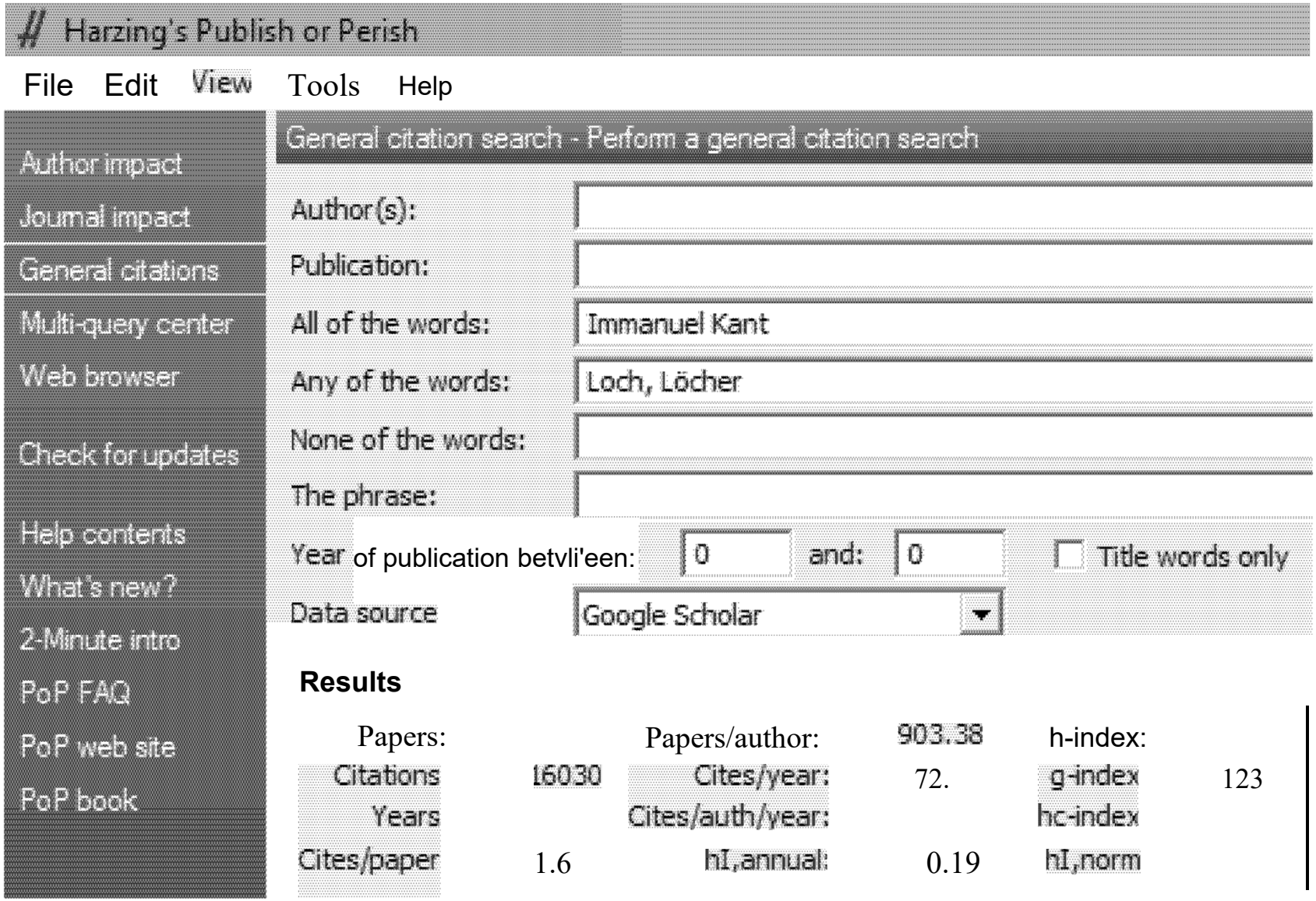
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PoP book
General citation search - Perform a general citation search
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Publication:
All of the words: Immanuel Kant
Any of the words: Loch, Löcher
None of the words:
The phrase:
Year of publication betvli'een: 0 and: 0
Title words only
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Papers: 16030
Papers/author: 903.38
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Citations
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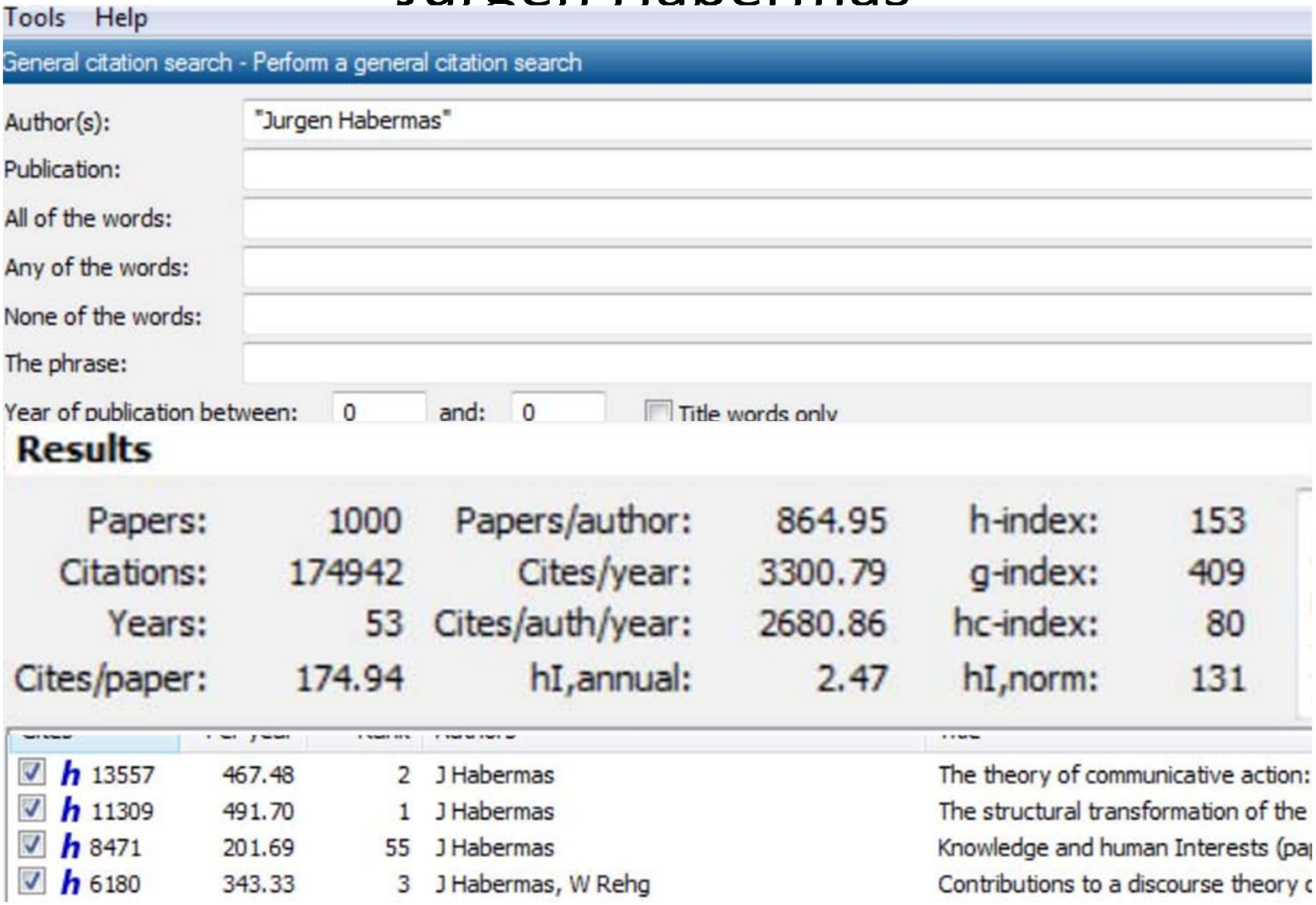
Jürgen Habermas



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University of California, Berkeley

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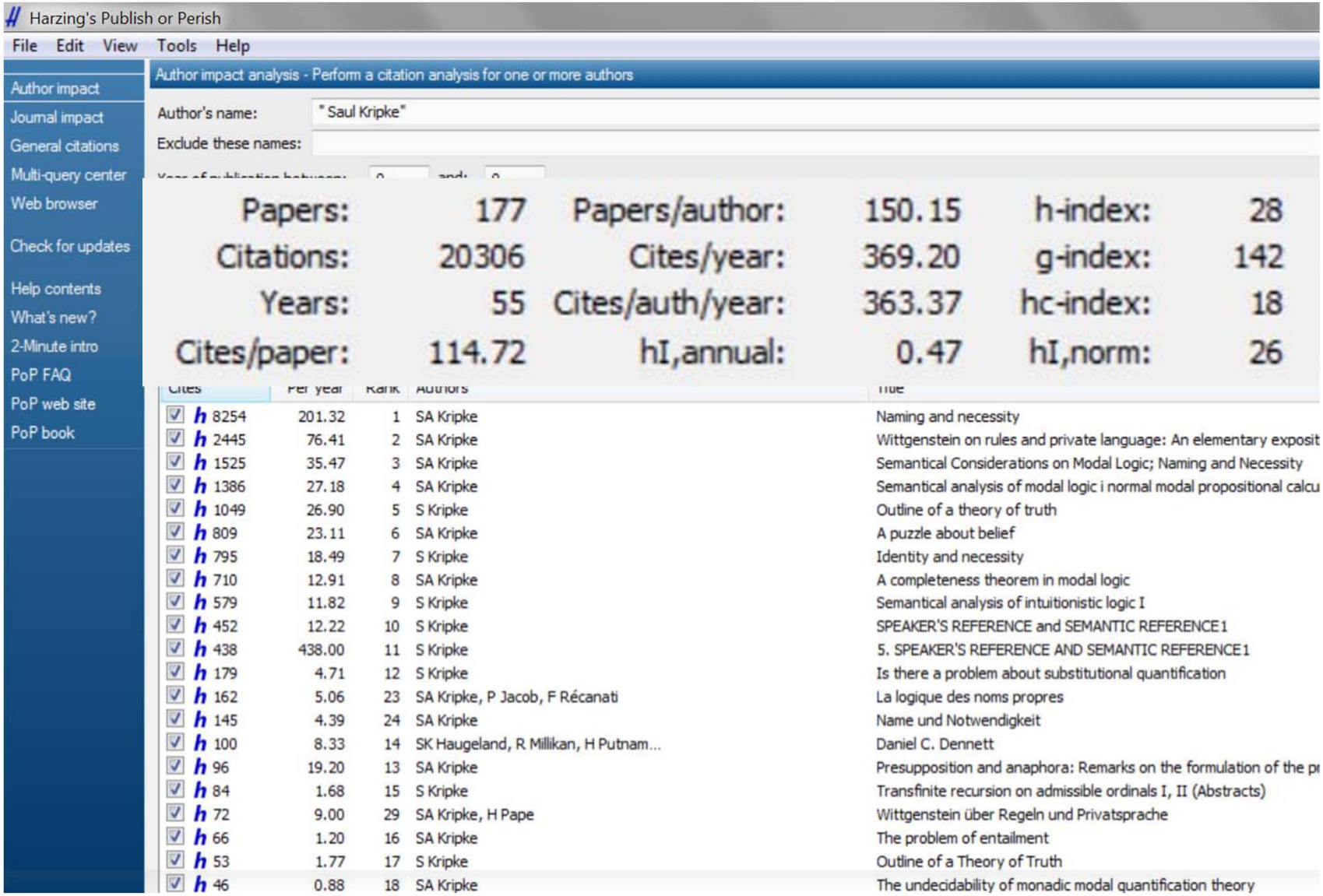
Speech acts: An essay in the philosophy of languageCambridge Univ

Saul Kripke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Author's name: "Saul Kripke"
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Papers: 177 Papers/author: 150.15 h-index: 28
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Cites Per year Rank Authors Title
h 8254 201.32 1 SA Kripke Naming and necessity
h 2445 76.41 2 SA Kripke Wittgenstein on rules and private language: An elementary exposit
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h 438 438.00 11 S Kripke 5. SPEAKER'S REFERENCE AND SEMANTIC REFERENCE1
h 179 4.71 12 S Kripke Is there a problem about substitutional quantification
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h 84 1.68 15 S Kripke Transfinite recursion on admissible ordinals I, II (Abstracts)
h 72 9.00 29 SA Kripke, H Pape Wittgenstein über Regeln und Privatsprache
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Author's name: "Slavoj *liiek"*

Exclude these names:

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Results

Papers:	915	Papers/author:	785.04	h-index:	57
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"Slavoj Ziiek":all
Query date: 2013-08-21
Papers: 915
Citations: *nn5*
Years: 97

Cites	Per year	Rank	Authors	ntle
h 3913	156.52	1	S Ziiek	The sublime object ofideology
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Ell ***h*** 450	75.00	9	S Zizek	Violence: Six sideways reflections
h 442	34.00	11	S Zizek	The fragile absolute: or,why is the Christian legacy worth fighting
h 380	34.55	43	S Zizek	The puppet and the dwarf: The perverse core of Christianity
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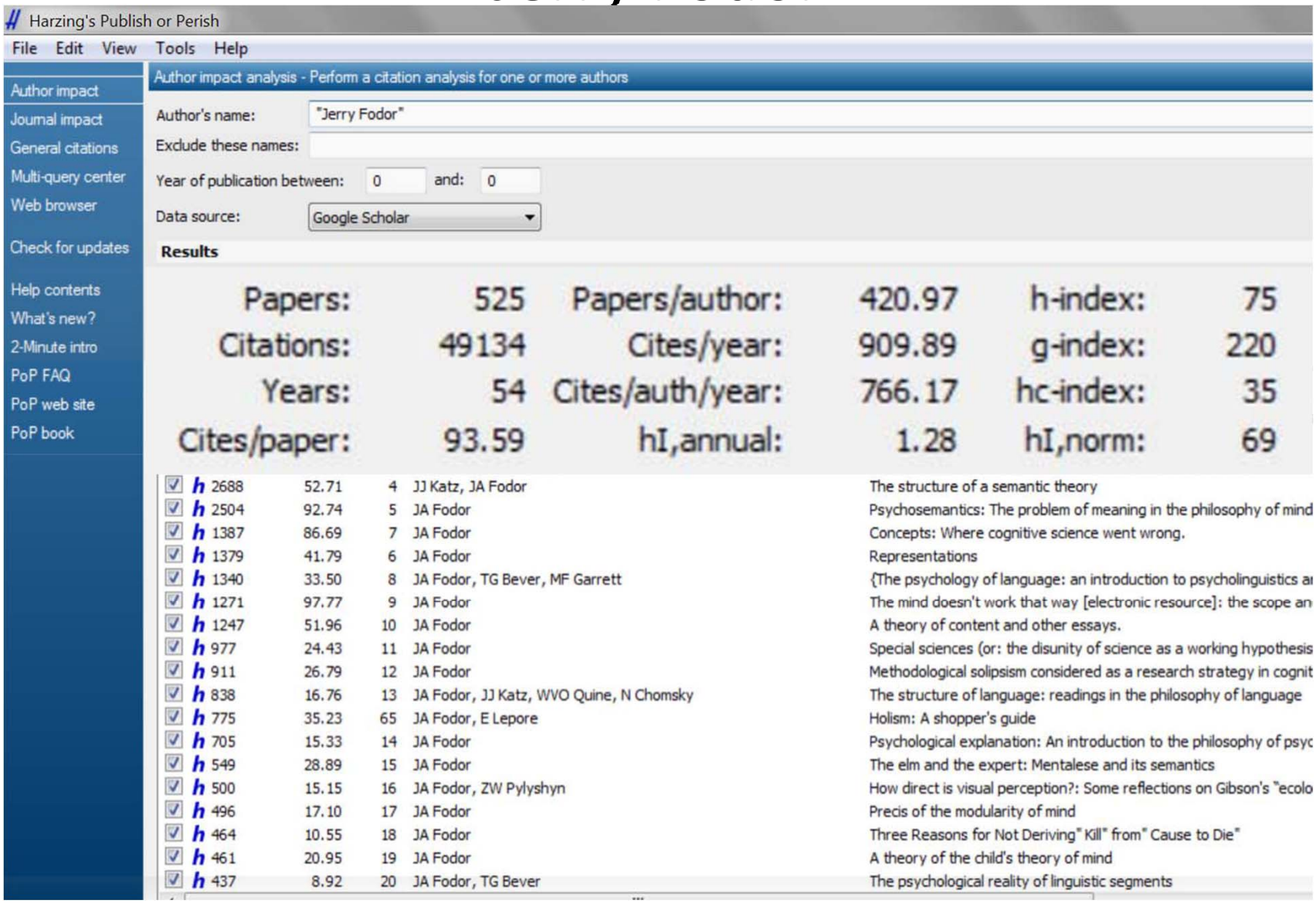
Jerry Fodor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Cites/paper: 93.59 hI,annual: 1.28 hI,norm: 69
h 2688 52.71 4 JJ Katz, JA Fodor The structure of a semantic theory
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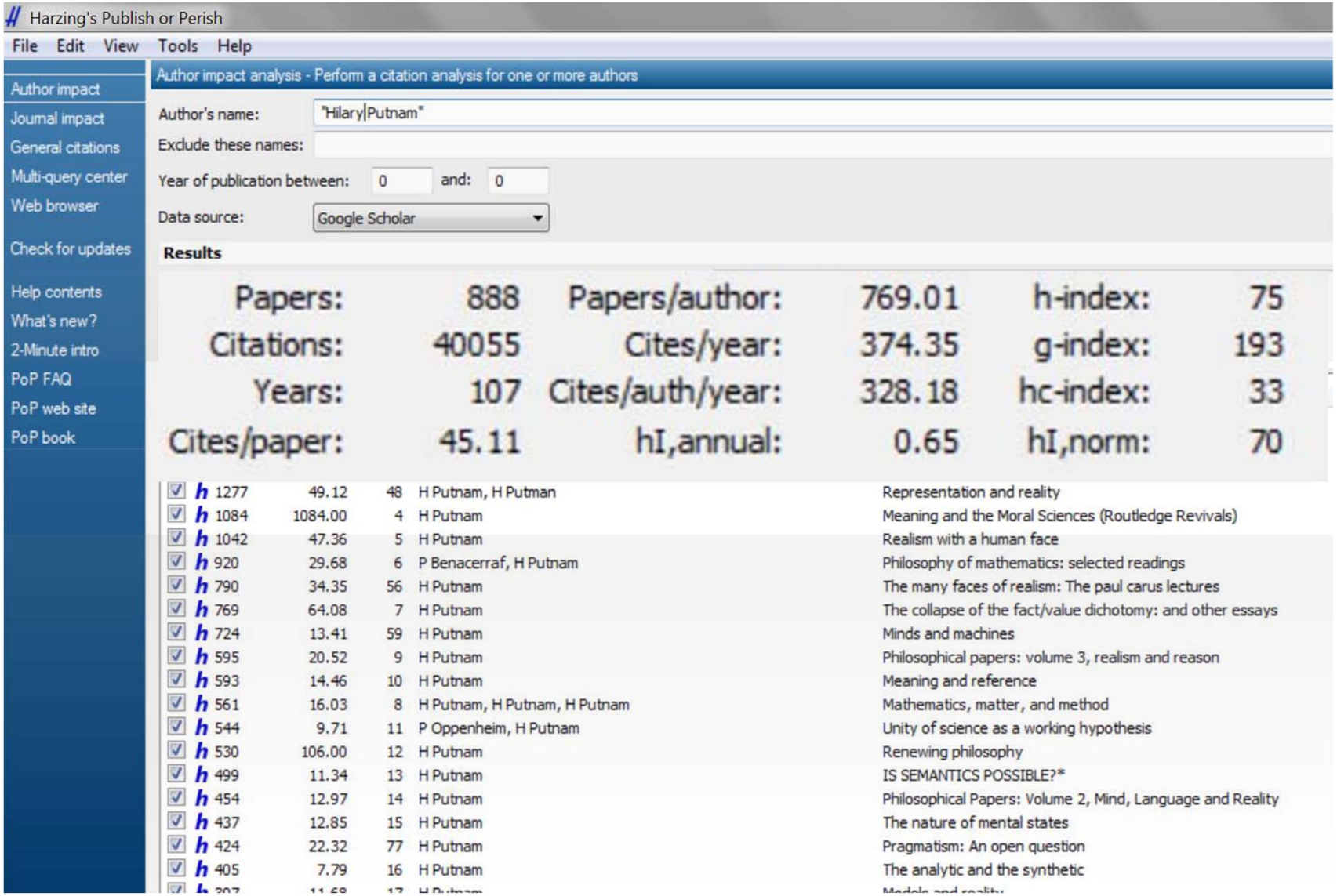
Hilary Putnam



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Author's name: "Jaakko tf1ntikka"

Year of publication between: 0 and: 0

Data source: [Google Scholar

Results

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Cites	Per year	Rank	Authors
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l'.tl h 825	15.87	1	J tfintikka
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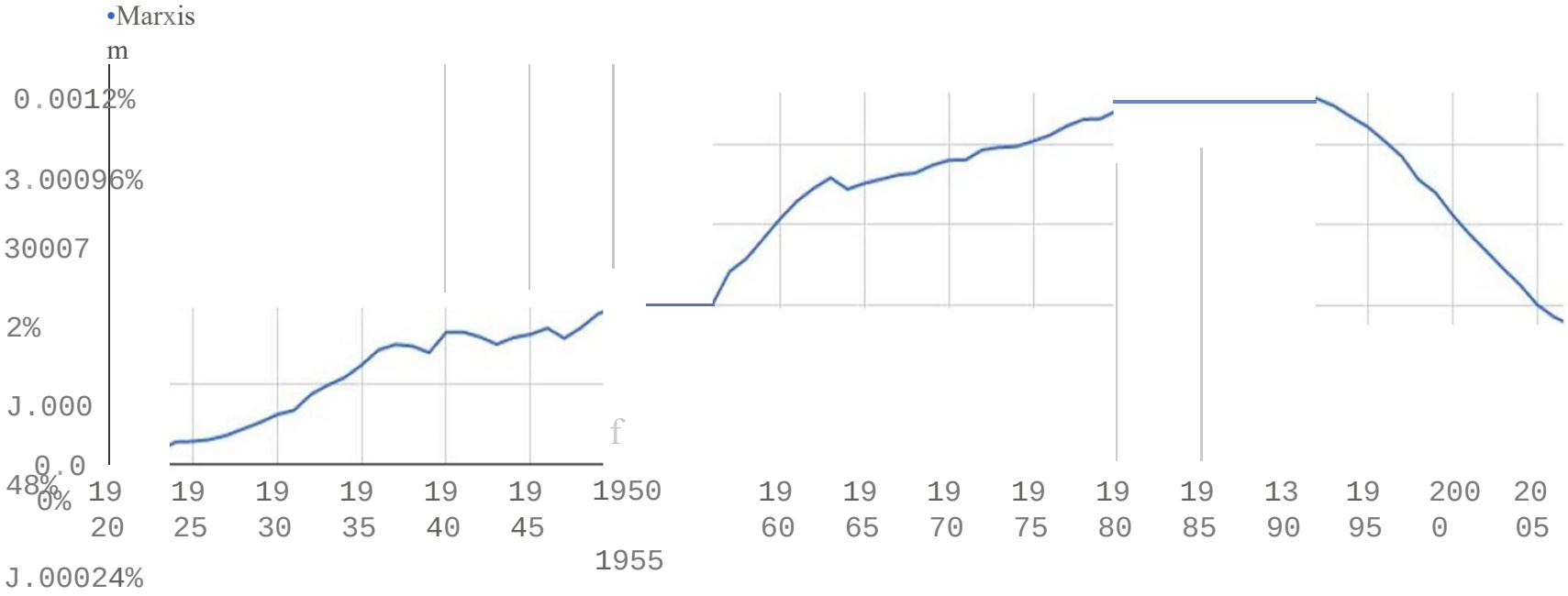

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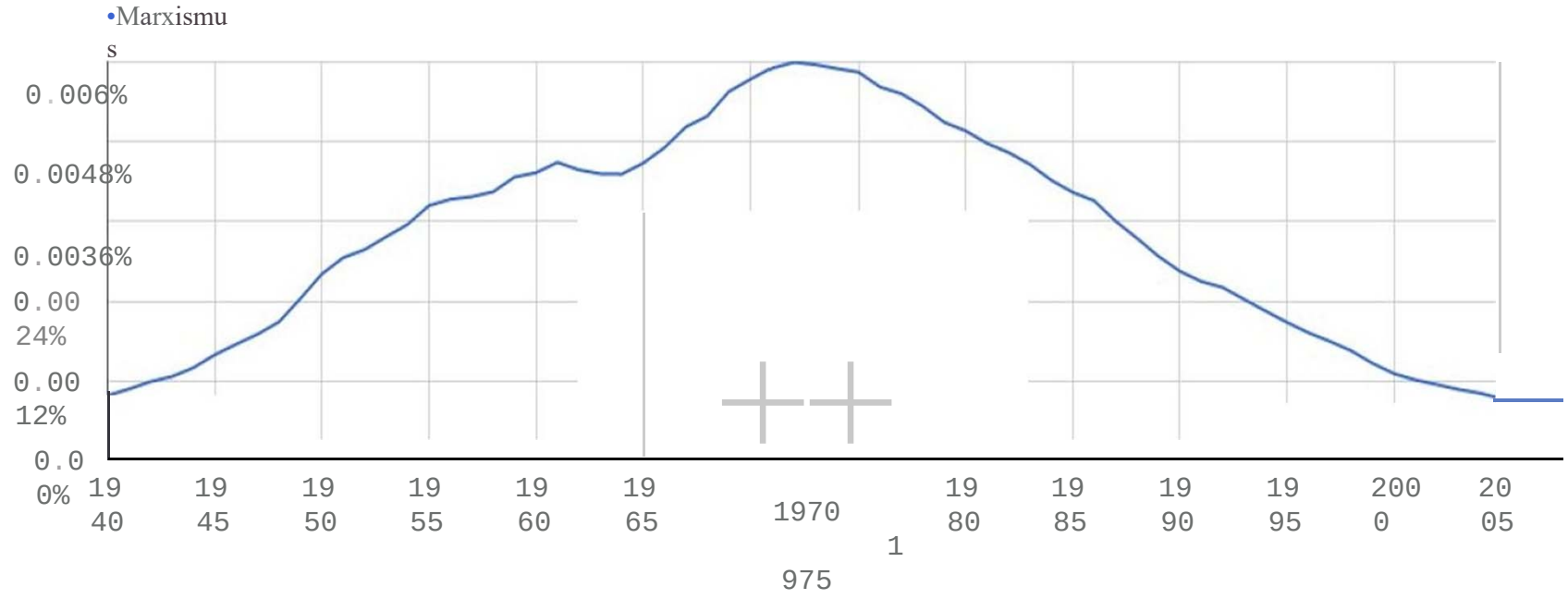

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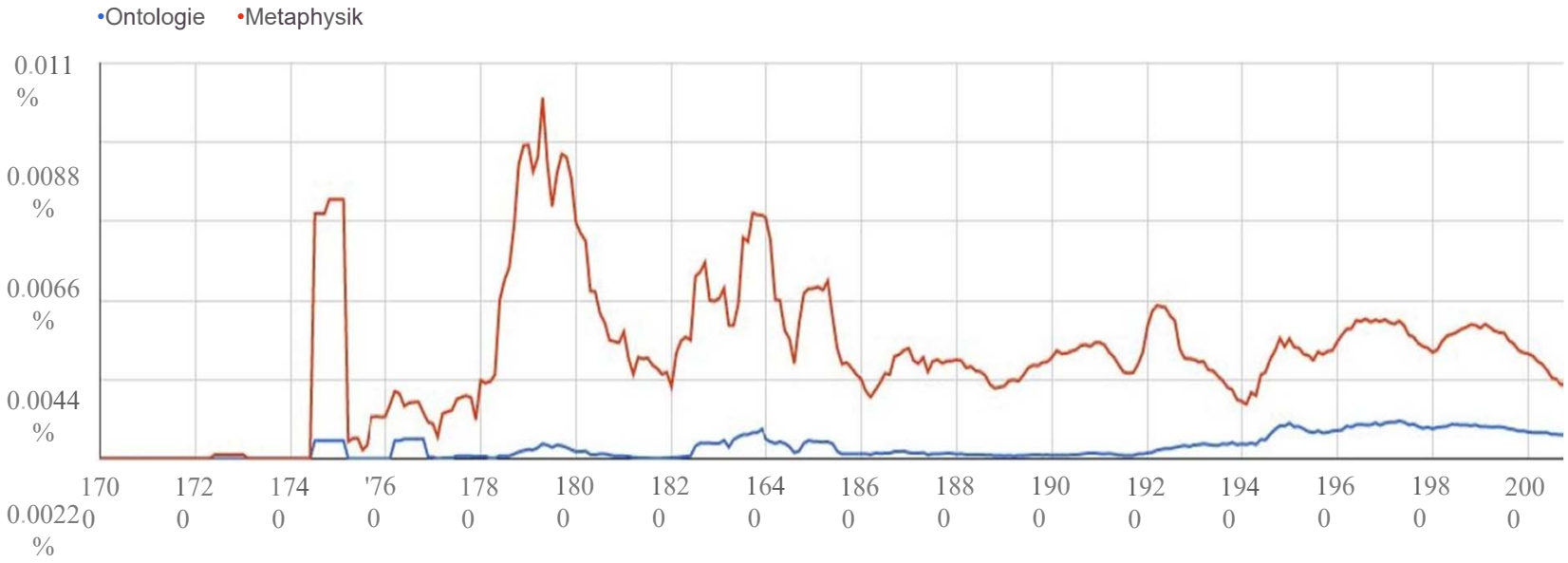

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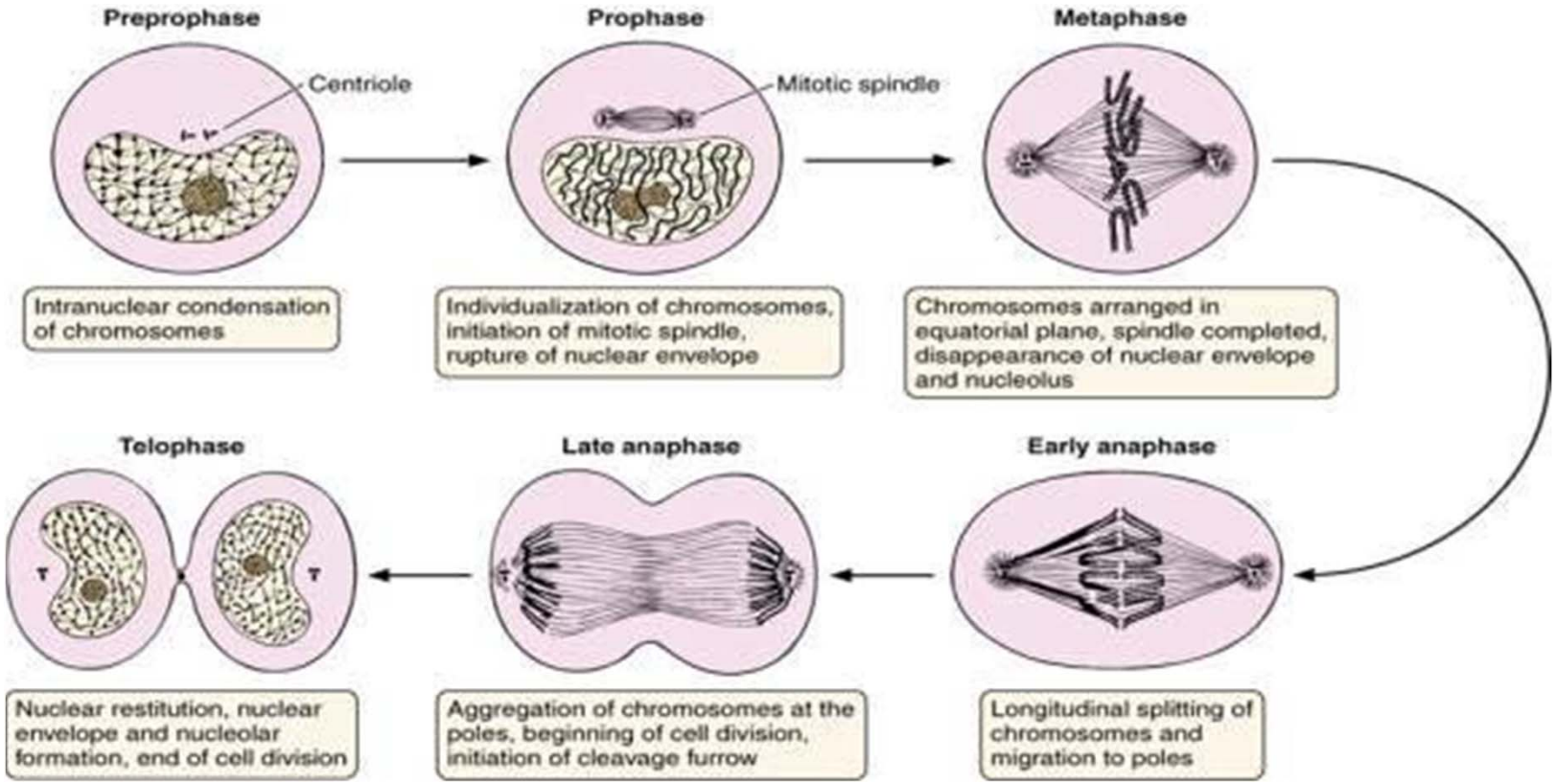
Old biology data



The Gene Ontology

response to the massive opportunities created by the success of the Human Genome Project

- for cross-organism
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You're interested in which genes control heart muscle development

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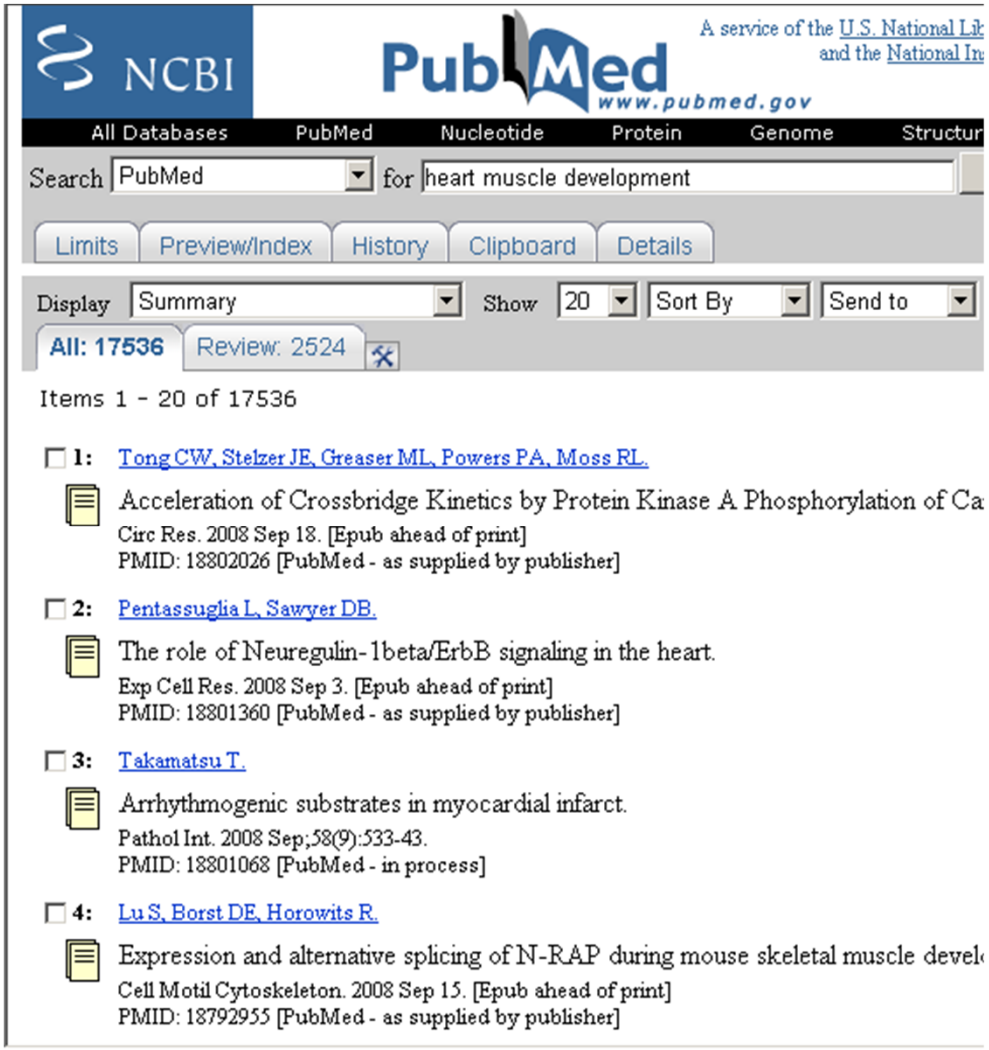

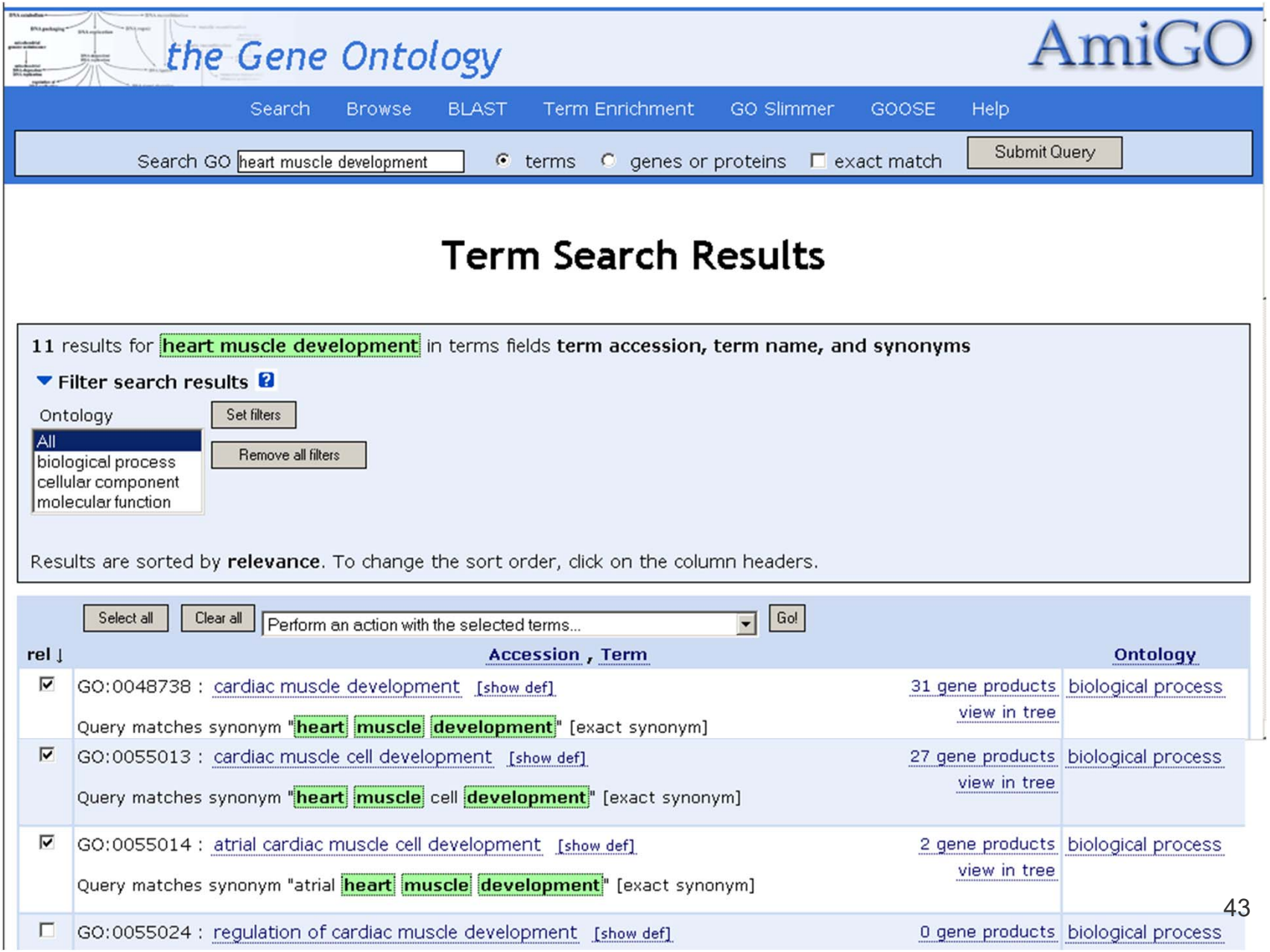
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11 results for heart muscle development in terms fields term accession, term name, and synonyms
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cellular component
molecular function
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Remove all filters
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Clear all
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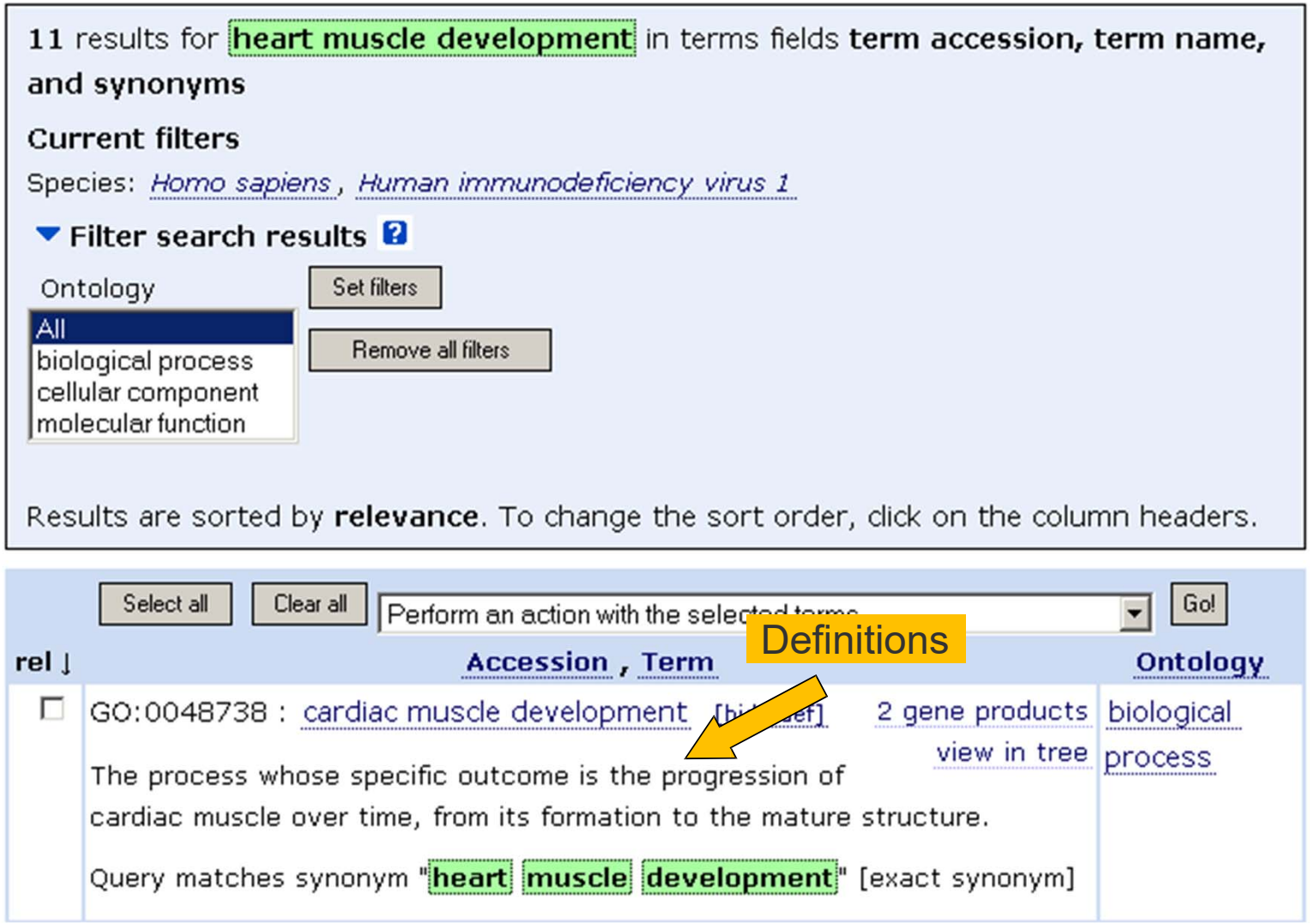

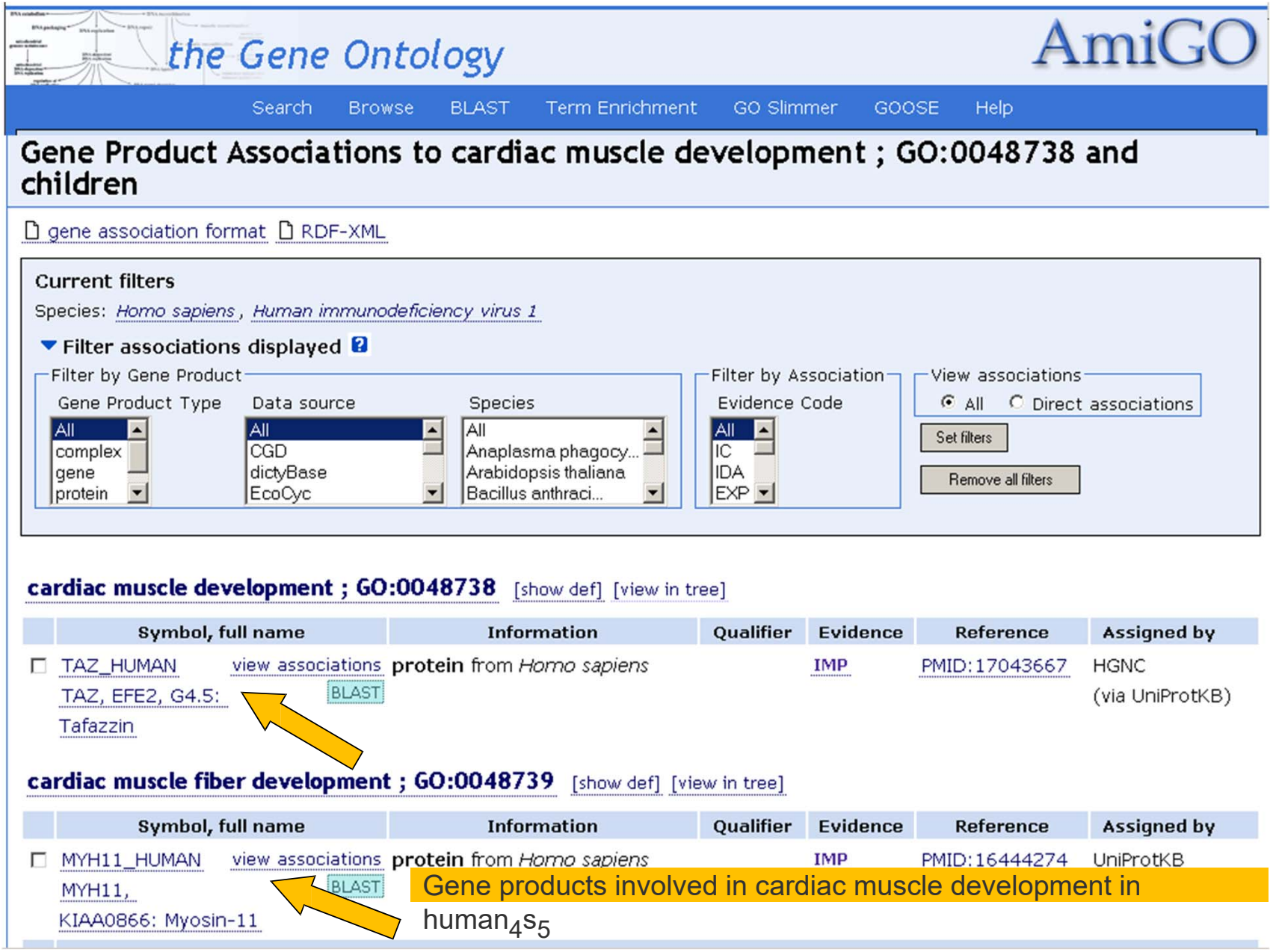
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Gene products involved in cardiac muscle development in human4s5

Ludger Jansen,
Barry Smith (Hrsg.)

BIOMEDIZINISCHE ONTOLOGIE

Wissen strukturieren für den Informatik-Einsatz

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ontology + Aristotle	**77K**	**1.66M**
ontology + philosophy	**327K**	**4.91M**
ontology + software	**468K**	**7.80M**
ontology + database	**594K**	**10.20M**
ontology +information systems	**702K**	**5.14M**

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can be applied to mathematics too

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New Possibilities for Massively Planned Social Action

Eric Whitacre's Virtual Choir

Lux Aurumque (2010)

185 voices, 12 countries

Lux Aurumque

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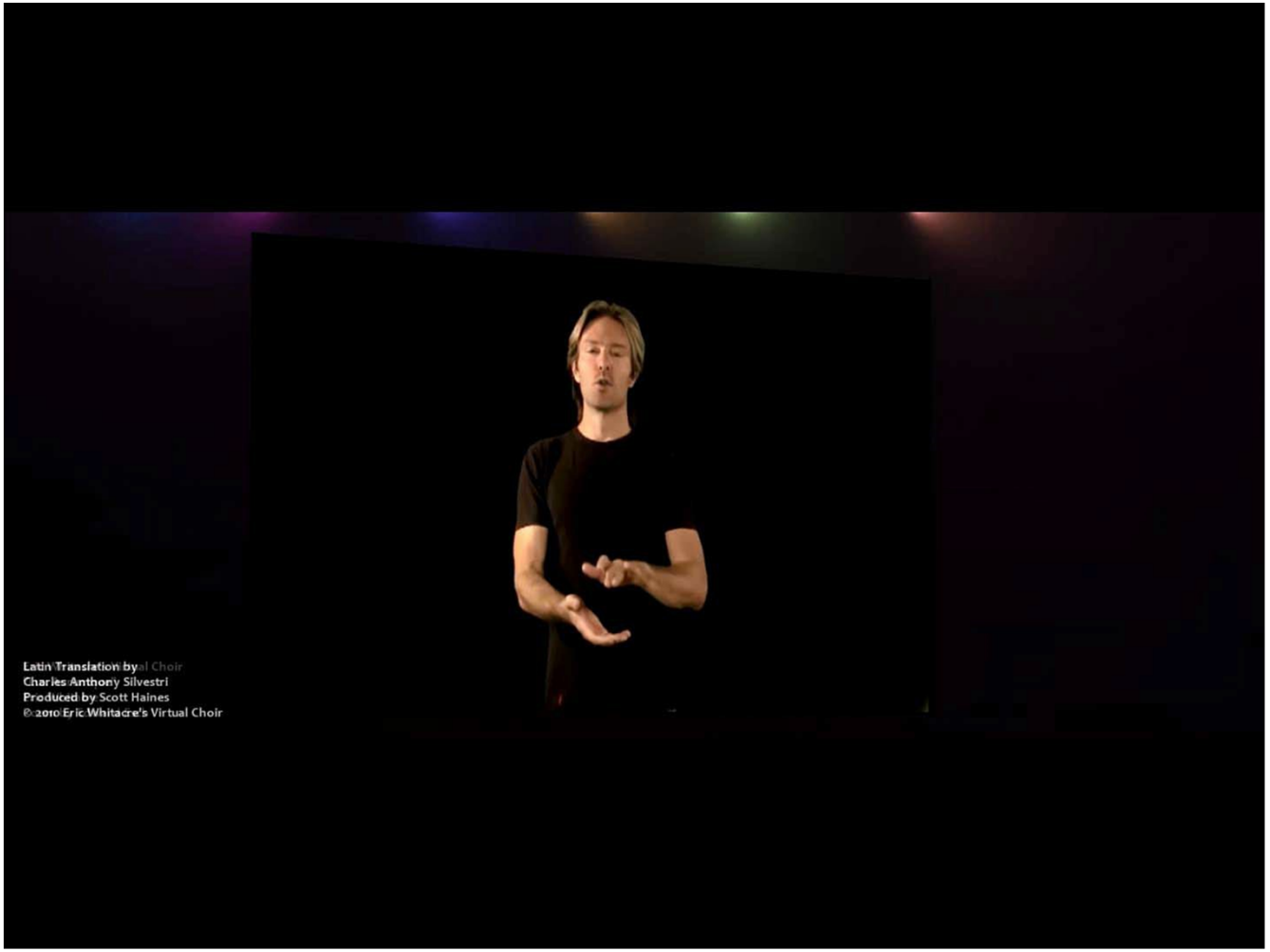

- Eric Whitacre's Virtual Choir 3.0, 3746 vidoes from 78 countries

The meshing of actions of over 3000 people in 78 different countries

- most of whom will never communicate with each other

New York State Unified Court System

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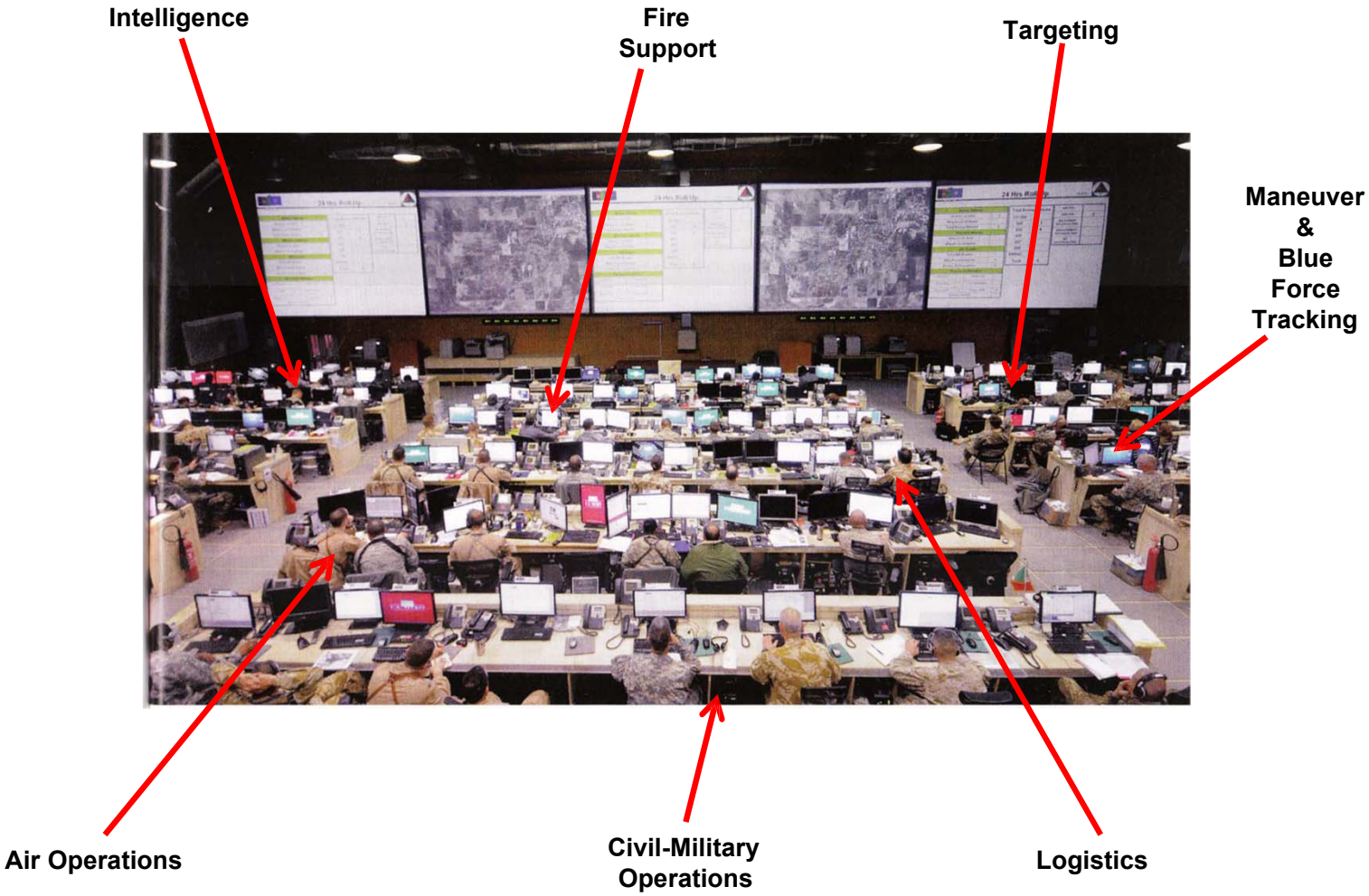
US military operations center in Afghanistan

Warfighters' Information Sharing Environment



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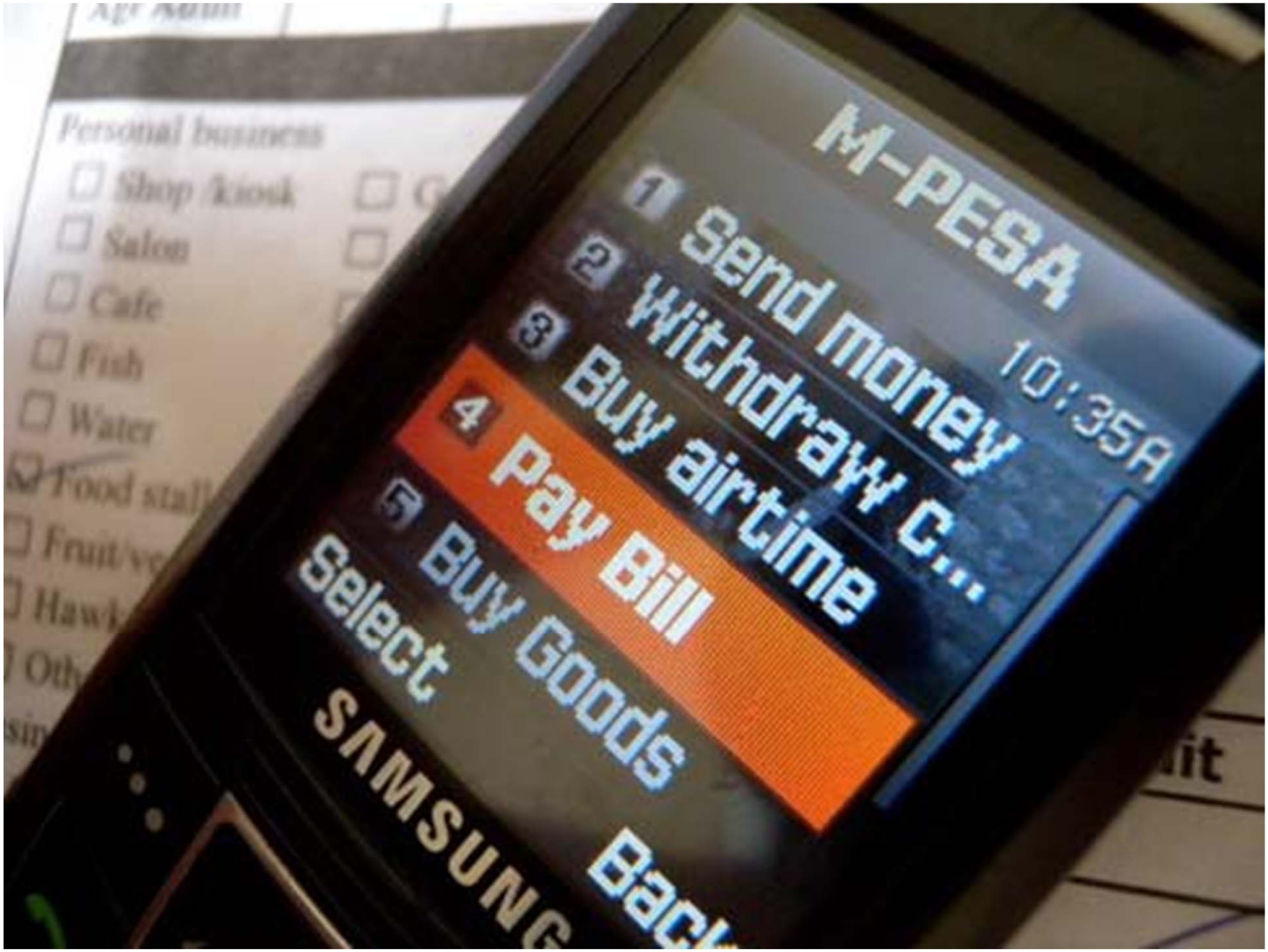
M-PESA
10:35A
1 Send money
2 Withdraw C...
3 Buy airtime
4 Pay Bill
5 Buy Goods
Select
Back
SAMSUNG

e-people (biology + *Bildungskapital* + intermeshing)

A new theory of personal identity:

You are a biological organism, with plans, skills, and a reputational trail

that is intermeshed digitally with the plans, skills and reputational trails of other human beings

in such a way as to enable new sorts of human achievements in science, culture, commerce, law, war, …

Hernando de Soto

Institute for Liberty and Democracy, Lima, Peru

Bill Clinton:

"The most promising anti-poverty initiative in the world"

de Soto's hypothesis

the development of civilization in the course of history goes hand in hand with the accumulation of documentation

(property titles, registration of persons, professional qualifications, keeping of accounts ...)

The need for a trace

Civilization rests on complex social entities – claims, obligations, rights, powers, roles, offices

which survive for an extended period of time

What is the physical basis for this extended existence? Not the memories of those involved

–but *permanent, re-usable, discoverable* records These systems of records allowed new institutional artefacts such as mortgages and insurance to be created

and allowed human beings to acquire the habits and skills needed to participate successfully in the extended market order