

VT

The Future of the History of Philosophy

Barry Smith

<http://philosophhome.org/>

Journal of Biomedical Semantics

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Melissa A Haendel, James P Balhoff, Frederic B Bastian, David C Blackburn, Judith A Blake, Yvonne Bradford, Aurelie Comte, Wasila M Dahdul, Thomas A Dececchi, Robert E Druzinsky, Terry F Hayamizu,

Most accessed articles [RSS](#) 

Editors-in-C

Dietrich Rebholz-Sch
University of Ireland,
Goran Nenadic, *Univ*
UK

Aims and sco



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tagging literature with ontology terms

RB Reis, GS Ribeiro, RDM Felzemburgh, *et al.*, Impact of Environment and Social Gradient n Leptospira Infection in Urban Slums

turn all highlighting off | date | disease | habitat | institution | organism | person | place | protein | taxon

Tag | Abstract | Author Summary | Introduction | Methods | Results | Discussion | Supporting Information | Acknowledgements | References | Data/Fusion Supplements

Introduction

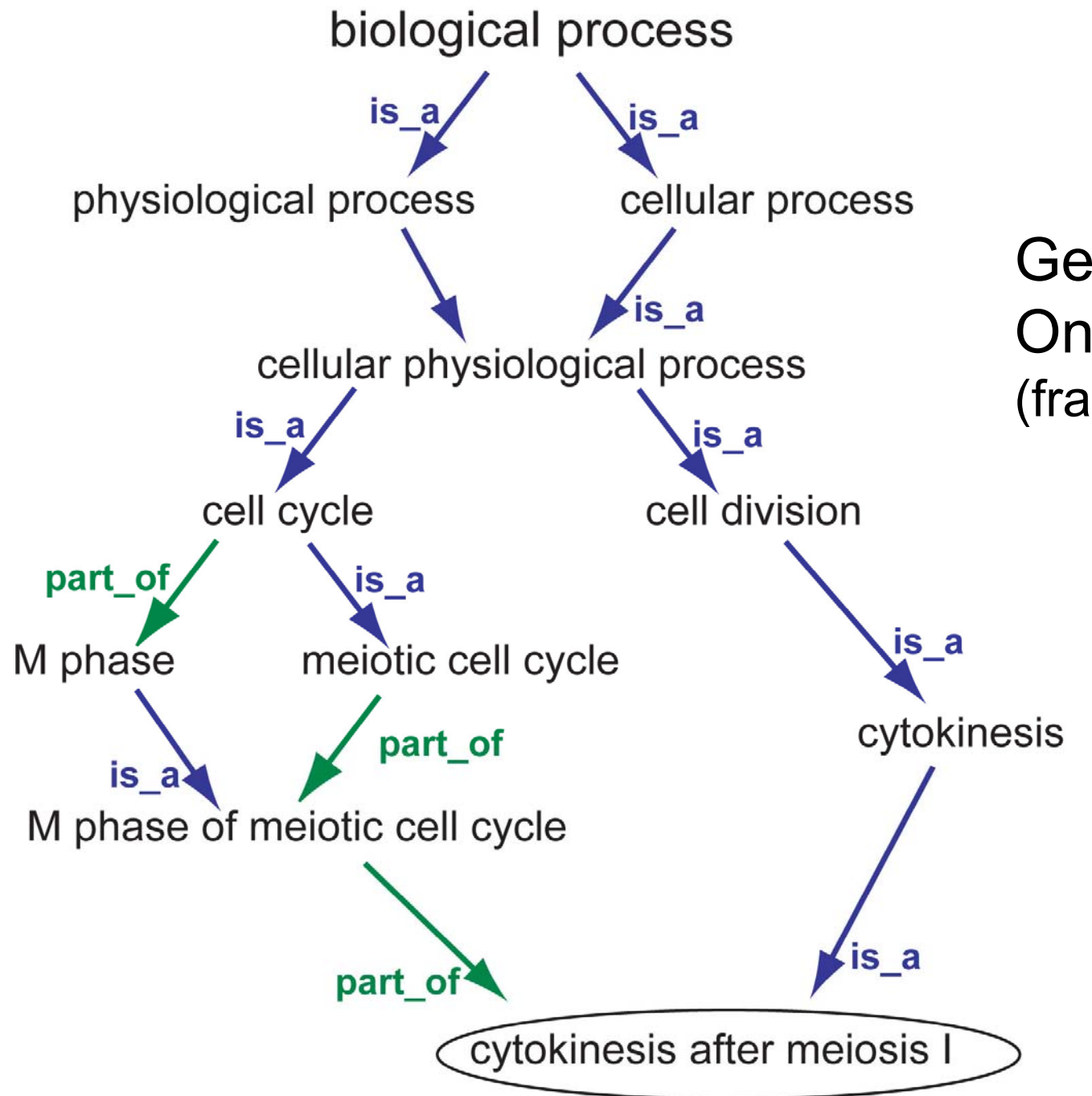
At present, one billion of the world's population resides in **slum settlements** [1]. This number is expected to double in the next 25 years [1]. The growth of large urban populations which are marginalized from basic services has created a new set of global health challenges [2],[3]. As part of the Millennium Development Goals [4], a major priority has been to address the underlying poor sanitation and environmental degradation in slum communities which, in turn, are the cause of a spectrum of neglected diseases which affect these populations [2],[3],[5].

Leptospirosis is a paradigm for an urban health problem that has emerged due to recent growth of **slums** [6],[7]. The disease, caused by the **Leptospira spirochete**, produces life-threatening manifestations, such as **Well's disease** and severe **pulmonary hemorrhage syndrome** for which fatality is more than 10% and 50%, respectively [7]–[9]. **Leptospirosis** is transmitted during direct contact with animal reservoirs or water and soil contaminated with their urine [8],[9]. Changes in the urban environment due to expanding slum communities has produced conditions for rodent-borne transmission [6],[10]. Urban epidemics of **leptospirosis** now occur in **cities** throughout the developing world during seasonal heavy rainfall and flooding [6],[11]–[18]. There is scarce data on the burden of specific diseases that affect slum populations [2], however **leptospirosis** appears to have become a major infectious disease problem in this population. In **Brazil** alone, more than 10,000 cases of severe **leptospirosis** are reported each year due to outbreaks in **urban centers** [19], whereas roughly 3,000, 8,000 and 1,500 cases are reported annually for **meningococcal disease**, **visceral leishmaniasis** and **dengue hemorrhagic fever**, respectively, which are other infectious diseases associated with urban poverty [20]–[22]. Case fatality (10%) from **leptospirosis** [19] is comparable to that observed for **meningococcal disease**, **visceral leishmaniasis** and **dengue hemorrhagic fever** (20%, 8% and 10%, respectively) in this setting [20],[23],[24]. Furthermore, **leptospirosis** is associated with extreme weather events, as exemplified by the El Niño-associated outbreak in **Guayaquil** in 1998 [25]. **Leptospirosis** is therefore expected to become an increasingly important slum health problem as predicted global climate change [26],[27] and growth of the world's slum population [1] evolves.

Urban **leptospirosis** is a disease of poor environments since it disproportionately affects communities that lack adequate sewage systems and refuse collection services [6],[10],[11]. In this setting, outbreaks are often due to transmission of a single serovar, **L. interrogans serovar Copenhageni**, which is associated with the **Rattus norvegicus** reservoir [6], [28]–[30]. Elucidation of the specific determinants of poverty which have led to the emergence of urban **leptospirosis** is essential in guiding community-based interventions which, to date, have been uniformly unsuccessful. Herein, we report the findings of a large seroprevalence survey performed in a Brazilian slum community (*favela*). Geographical Information System (GIS) methods were used to identify sources for **Leptospira** transmission in the **slum environment**. Furthermore, we evaluated whether relative differences in socioeconomic status among slum residents contributed to the risk of **Leptospira infection**, in addition to the attributes of the environment in which they reside.

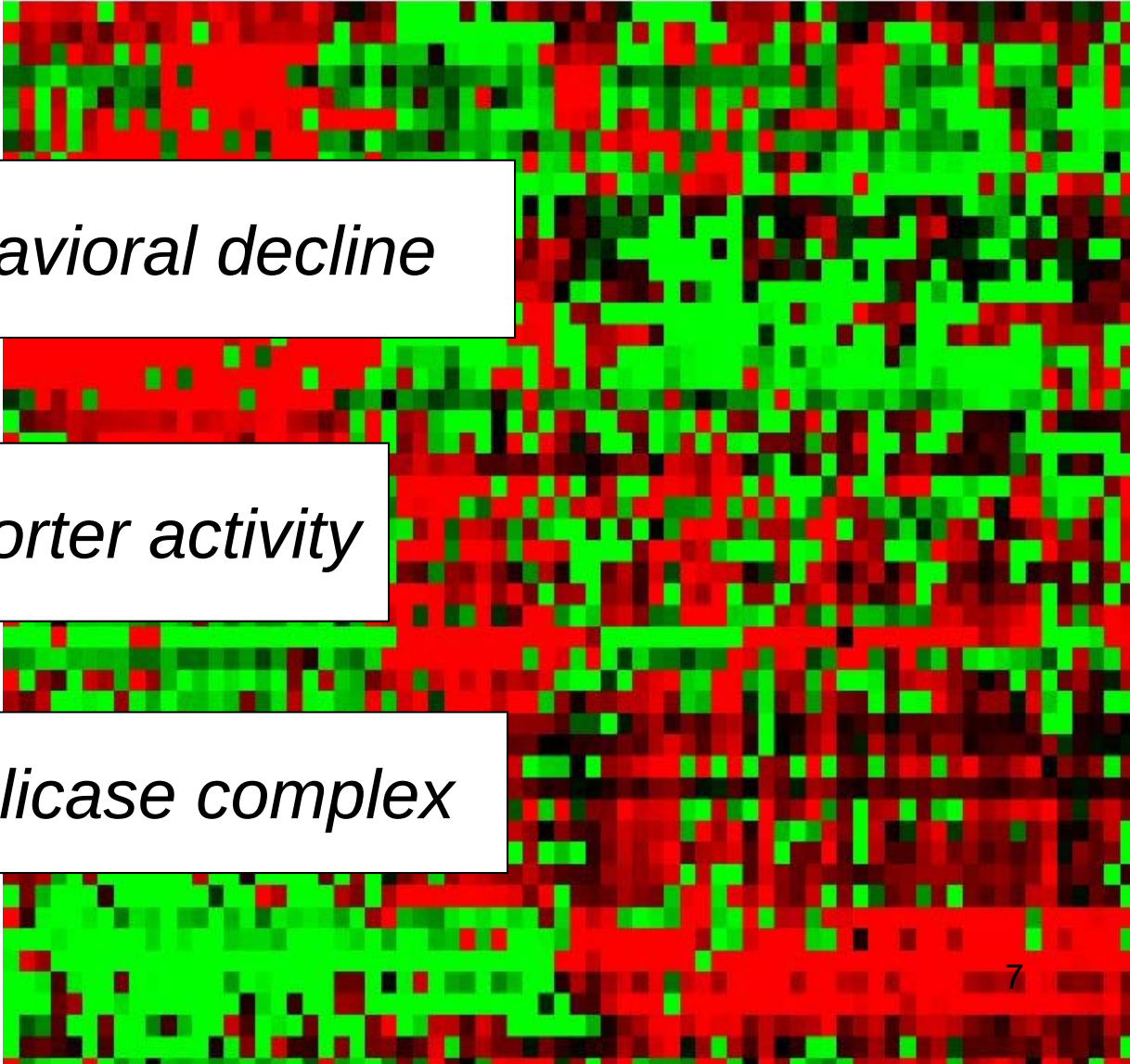
Shotton D, Portwin K, Klyne G, Miles A (2009) Adventures in Semantic Publishing: Exemplar Semantic Enhancements of a Research Article. PLoS Comput Biol 5(4): e1000361. doi:10.1371/journal.pcbi.1000361

<http://www.ploscompbiol.org/article/info:doi/10.1371/journal.pcbi.1000361>



Gene
Ontology
(fragment)

tagging genomic data with ontology terms

A large, complex heatmap with a dense pattern of red, green, and black pixels, serving as a background for the text boxes.

age-dependent behavioral decline

sphingolipid transporter activity

Holliday junction helicase complex

tagging databases with ontology terms

MouseEcotope

Tool	Statistical model	Correction for multiple experiments	GO Visualization	Microarrays supported	Time to process 300 genes (s)
Auto-Express	χ^2 , binomial, hypergeometric, Fisher's exact test	Sidak, Holm, Bonferroni, FDR	Flat, Tree	172 commercial arrays (Affymetrix, SuperaArray, Sigma-Genomys, 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, 228, 340
DAVID	None	None	Not available	Not applicable	15, 17, 27, 54
EASEonline	Fisher's exact test	Benferroni	Not available	27 arrays (Affymetrix only); can also upload a user-defined list	13, 19, 34, 74
GeneMerge	Hypergeometric	Benferroni	Flat, no hierarchical structure	Uploads from user	6, 6, 6, 8
FuncAssociate	Fisher's exact test	None	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	Benferroni, Holm, Hochberg, Hommel, FDR	Not available	Uploads from user	22, 81, 145, 270
GOToolBox	χ^2 , binomial	Benferroni, Holm, Hochberg, Hommel, FDR	DAG	23 commercial arrays; can also upload a user-defined list	2, 3, 2, 3, 3
Ontology Traverser	Hypergeometric	FDR	Not available	5 arrays (Affymetrix); uploads from user	NA
eGOon	Binomial	None	Tree	Uploads from user	20, 45, 80, 95

GlyProt

GULU Glutamate-ammonia liqase
 HAKM2 Heme oxygenase (decycling) 2
 Hnak-A Hnucleosprotein Hnak-A
 Erythrocyte membrane S0k d glycoprotein
 Ck2 Carbonic anhydrase II
 NFYA Nuclear factor 1/Y
 HOMEOBOX PROTEIN HOX-A5
 Homeotic Protein C6, Class I
 KIA0246 gene, partial cds
 ELA2 Elastatase 2, neutrophil
 MPO Myeloperoxidase
 CST3 Cystatin C
 AHR5 Ras homolog, member 9 (rho 5)
 ANK1 Annexin I (lipocortin I)
 CSF3R
 SPT1 Integration oncogene
 D component of complement
 NF-IL6-beta
 Nfuk-Related Sequence
MAN2A Alpha mannosidase II isozyme
 Nfuk-Related Sequence
 Homolog suppressor-of-white-apricot
 CD2 antigen (p50)
 Myosin VIIA (USH1B)
 SERPINB Small proline-rich protein 1B
 ACTN2 Actinin alpha 2
 KIA0080 gene, partial cds
 DTYMK Deacetylhydrolase kinase
 Carcinoembryonic antigen precursor
 Lf lymphotxin-beta
 GATK3 GATA-binding protein 3
 GB DEF = Escherichia coli unknown
 GUANYLATE CYCLASE, BETA-1
 Spinal Muscular Atrophy 4
 KIA0239 gene, partial cds
 Butyrophillin (BTP4)
 MEC-annotated proteasome LAMP7-K1
 BRP1 Replication protein A1
 Clone 22 mRNA
 CTS5 CTS synthetase
 UBIQUITIN-LIKE PROTEIN GDU
 (AF1) mRNA
 S100 calcium-binding protein A13
 BLK Protein-tyrosine kinase blk
 TGR (R29)
 ORF-1
 TGLL
 CD19 antigen
 Skeletal muscle abundant protein

***sphingolipid
transporter
activity***

DiabetInGene

GluChem

fosters discoverability of information

MouseEcotope

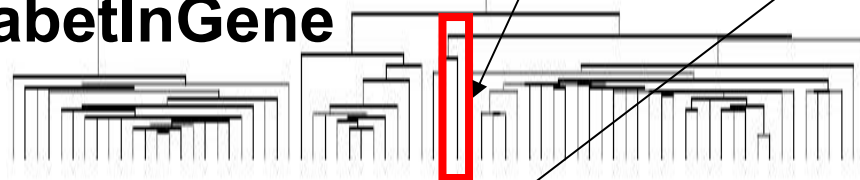
Tool	Statistical model	Correction for multiple experiments	GO Visualization	Microarrays supported	Time to process 200 genes (s)
Auto-Express	χ^2 , binomial, hypergeometric, Fisher's exact test	Sidak, Holm, Bonferroni, FDR	Flat, Tree	172 commercial arrays (Affymetrix, SuperArray, Sigma-Genosys, Clontech, PerkinElmer, Operon, Tulara, NIA); can also upload a user-defined set	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, 51
EASEonline	Fisher's exact test	Bonferroni	Not available	27 arrays (Affymetrix only); can also upload a user-defined set	15, 19, 34, 71
GeneSieve	Hypergeometric	Bonferroni	Flat, no hierarchical structure	Uploads from user	6, 6, 6, 8
FuncAssociate	Fisher's exact test	None	Not available	Uploads from user	22, 27, 29, 50
GOTM	Hypergeometric	None	Tree	37 arrays (Affymetrix only); uploads from user	59, 60, 157, 158
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, Bonnet, FDR	Not available	Uploads from user	22, 81, 145, 270
GoSniffer	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

GlyProt

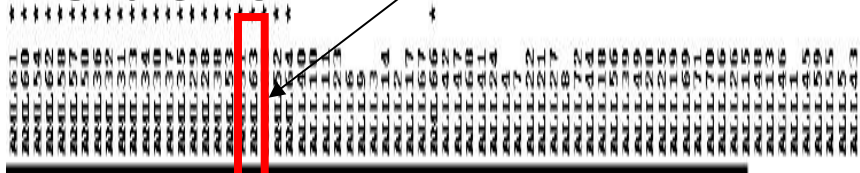
GLUL Glutamate-oxaloacetate transaminase 2
 HMOX2 Heme oxygenase (decycling) 2
 Ahnak-A Nucleoprotein Ahnak-A
 Erythrocyte membrane 50kd glycoprotein
 CA2 Carbonic anhydrase II
 NF1X Nuclear factor I/X
 HOMERBOX PROTEIN HOM-AS
 Homeotic Protein CS, Class I
 KIAA0246 gene, partial cds
 ELA2 Elastase 2, neutrophil
 MPO Myeloperoxidase
 CST3 Cystatin C
 ARHG Ras homolog, member G (rho G)
 ANKI Annexin I (lipocortin I)
 CSF3R
 SP11 integration oncogene
 D component of complement
 NF-IL6-beta
 Ahnak-Related Sequence
 HMOX2 Alpha mannosidase II isozyme
 GRK2 oncogene
 Homolog suppressor-of-white-apricot
 CD2 antigen (p50)
 HMOX2-UTR (untranslated)
 SFRP15 Small proline-rich protein 15
 KIAA0280 gene, partial cds
 DPMK 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-B1
 RPA1 Replication protein A1
 Clone 22 mRNA
 CTF6 CTF synthetase
 UBIQUITIN-LIKE PROTEIN GUX
 (AP1g) mRNA
 S100 calcium-binding protein A13
 ELK Protein-tyrosine kinase blk
 TGB (R29)
 ORF-1
 TGL1
 CD19 antigen
 Skeletal muscle abundant protein

**Holliday junction
helicase complex**

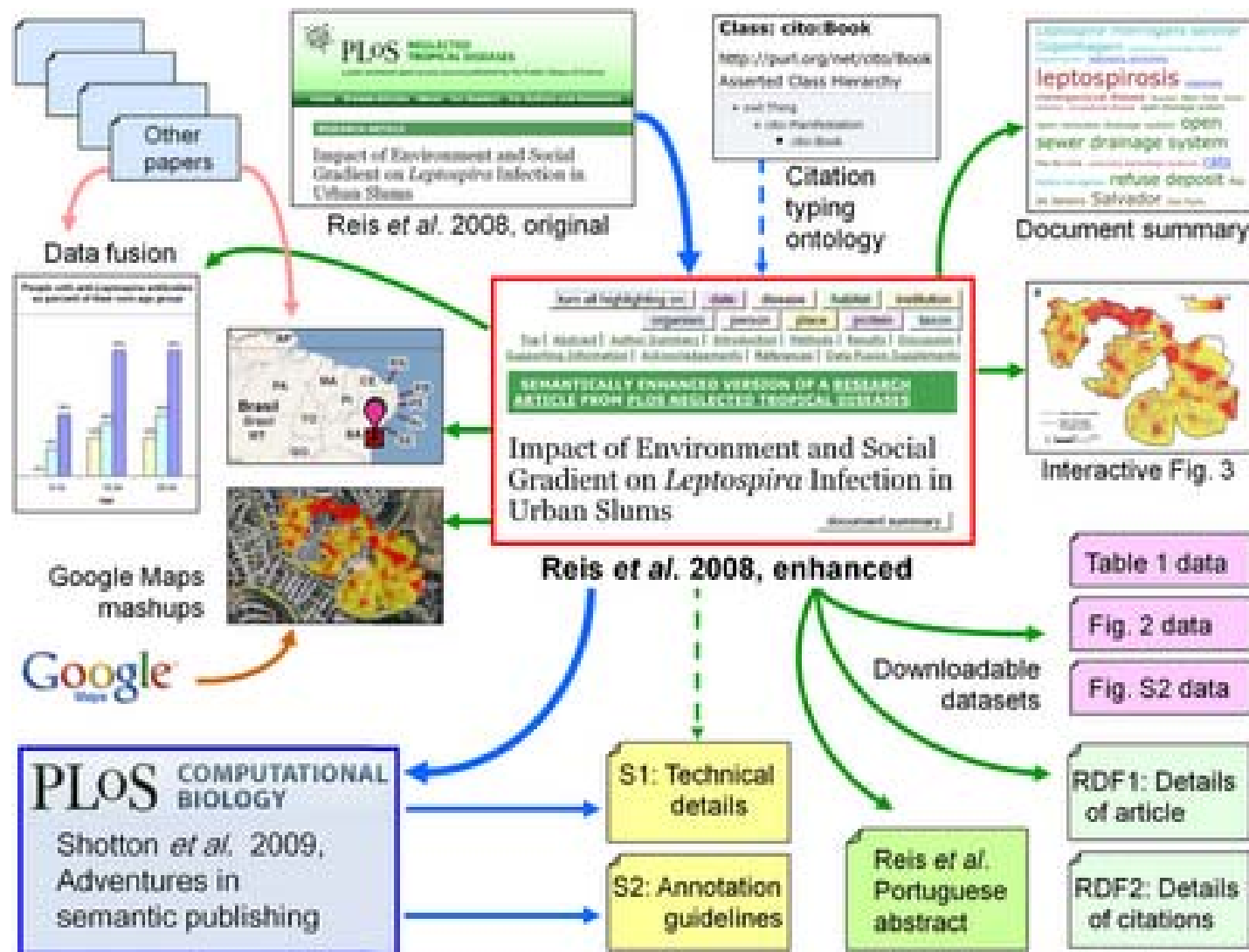
DiabetInGene



GluChem



coordinated tagging of literature and data



allows

- discovery of data and literature
- logical reasoning over data
- integration of data
- cross-disciplinary collaboration

The approach can be applied in all areas; all we need is the corresponding consensus-based ontologies and a huge investment in tagging

<http://bioportal.bioontology.org/ontologies/1666>

 BioPortal

BrowseSearchInProjects

Recently ViewedSign In

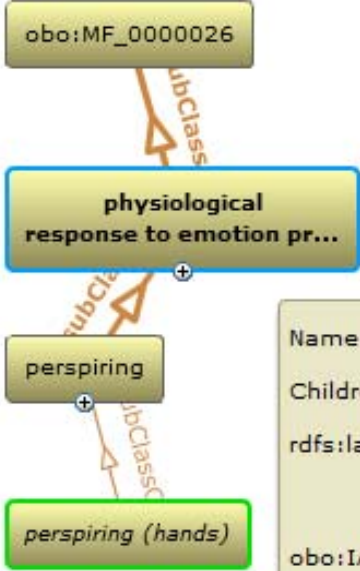
Emotion Ontology

Jump To:

- obo:MF_0000015
- + obo:MF_0000020
- + obo:MF_0000022
- obo:MF_0000026
 - physiological response to emotion process
 - becoming pale
 - blushing
 - breathing at a more rapid rate
 - breathing at a slower rate
 - experiencing a lump in the throat
 - experiencing discomfort in the stomach
 - heart beating at faster rate
 - heart beating at slower rate
 - limb weakening
 - muscles becoming tense
 - muscles relaxing
 - + perspiring
 - perspiring (hands)
 - perspiring (whole body)
 - shivering
 - temperature falling (experienced as feeling cold)

Term Resources

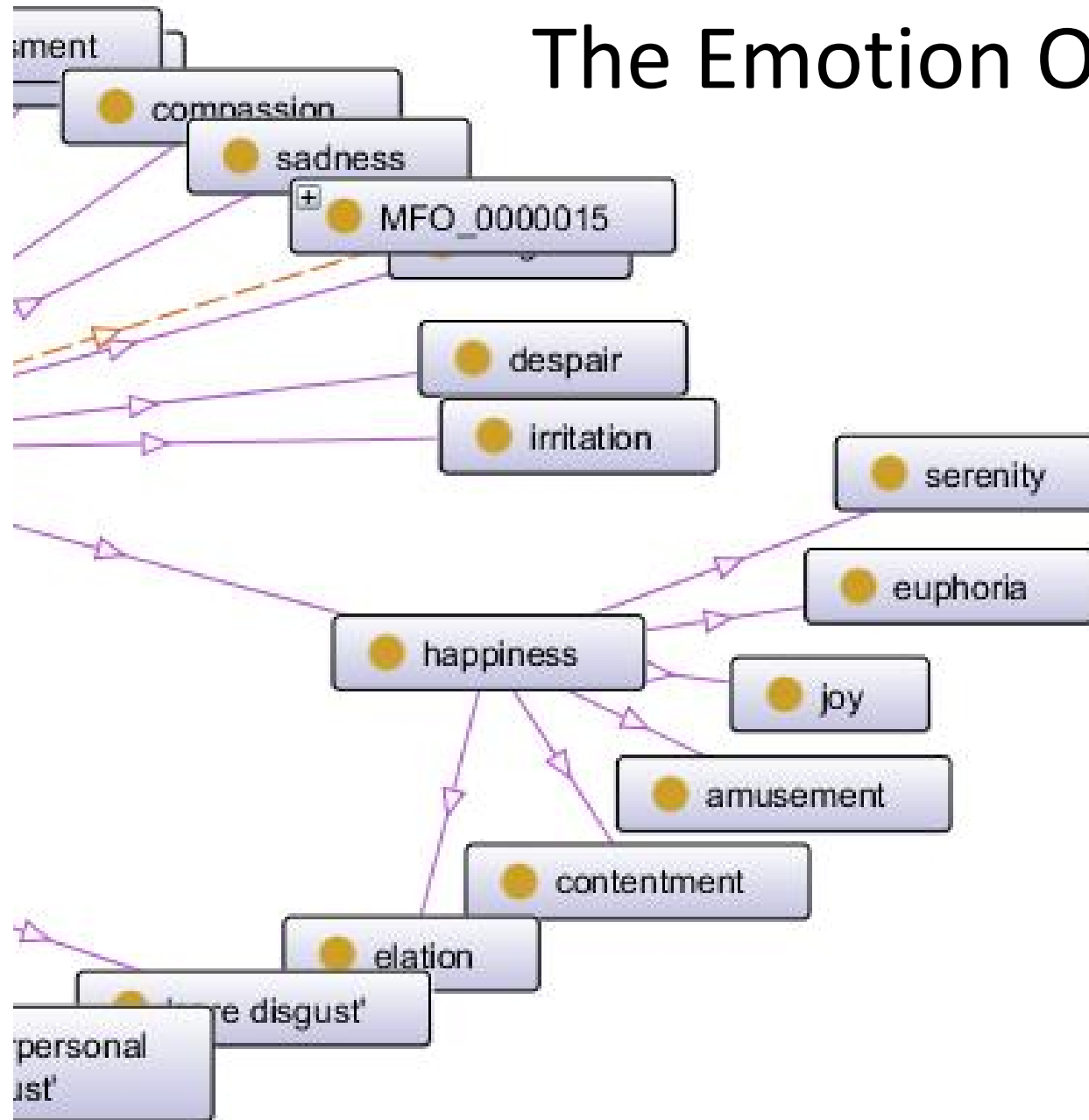
  Full Version



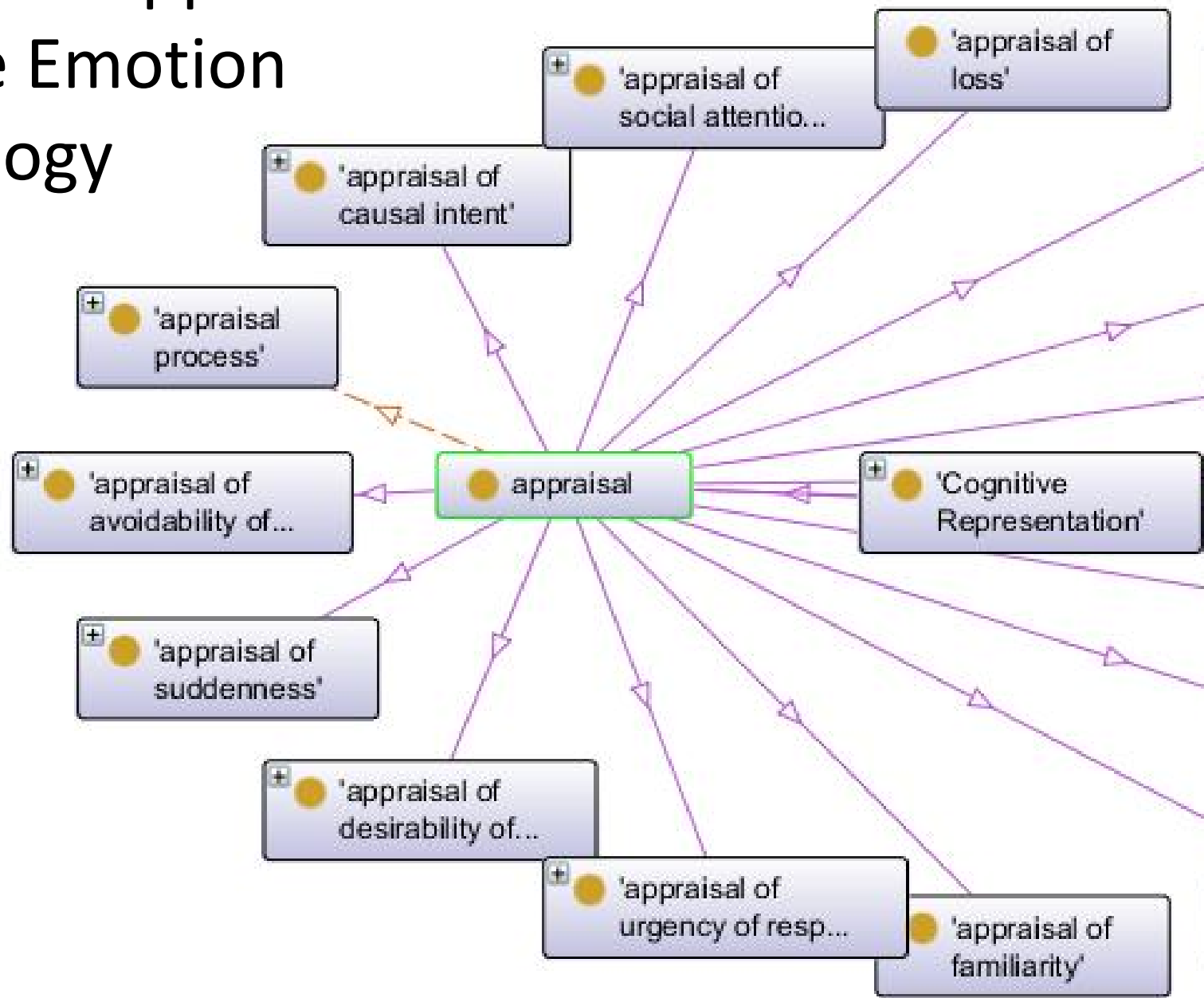
```
graph TD
    A[obo:MF_0000026] -->|superclass| B[physiological response to emotion pr...]
    B -->|superclass| C[perspiring]
    C -->|subclass| D[perspiring hands]
```

Name:	physiological response to emotion process
Children:	15
rdfs:label:	physiological response to emotion process
obo:IAO_0000115:	A physiological response to emotion process is a bodily process which encompasses all the neurophysiological changes caused by the appraisal, which take place in the central nervous system...

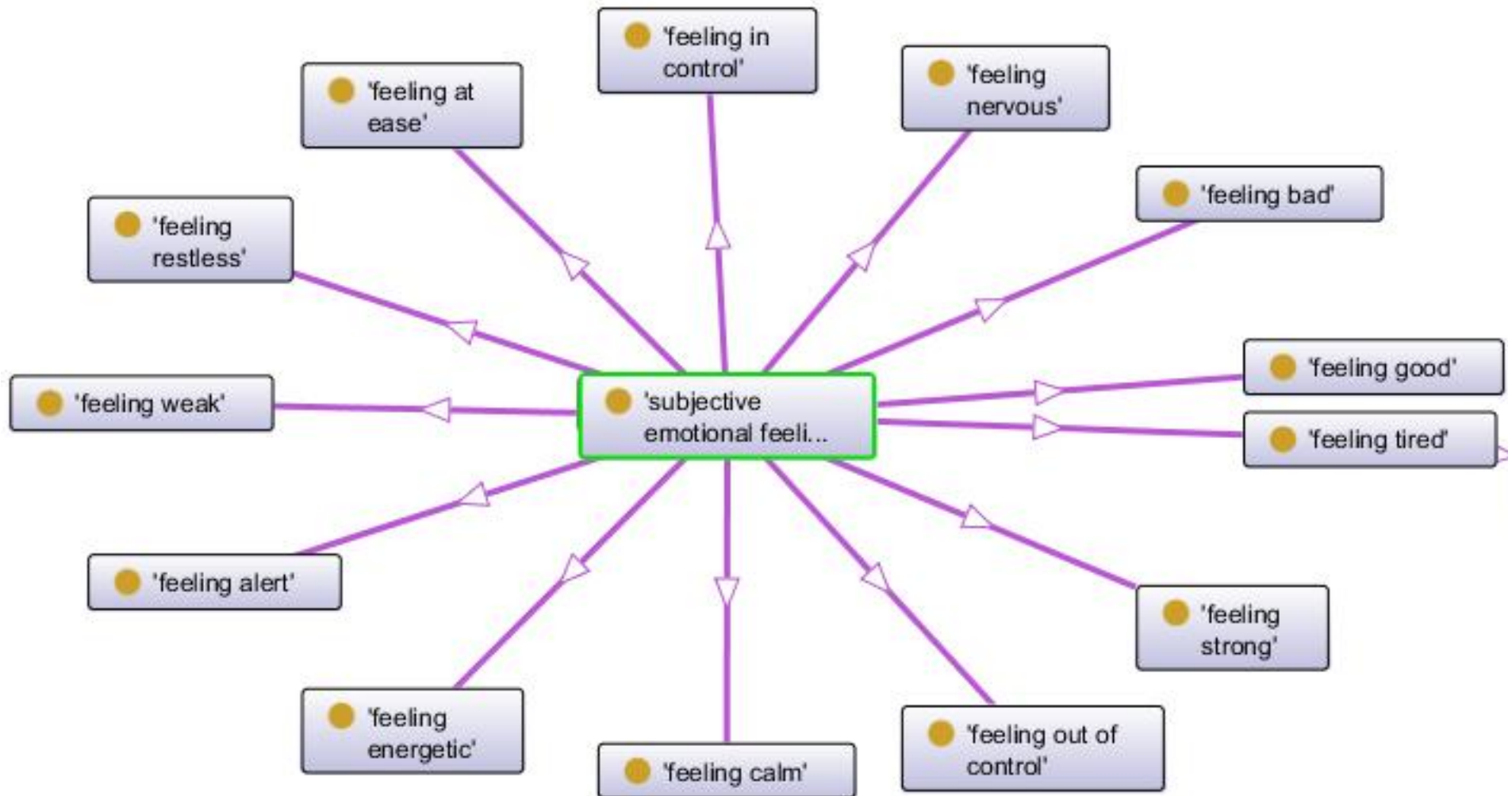
The Emotion Ontology



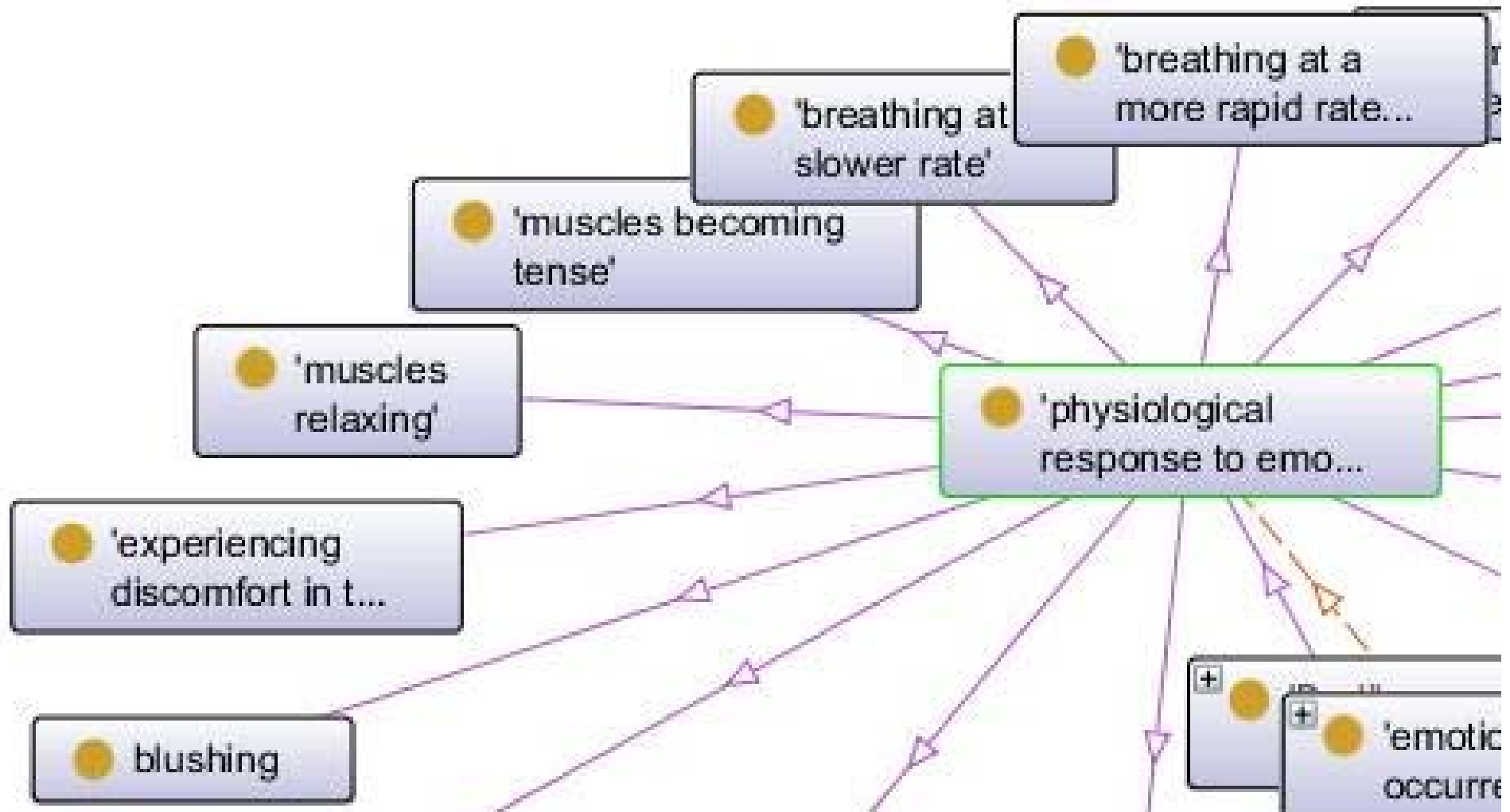
Types of appraisal in the Emotion Ontology



Types of feeling in the Emotion Ontology

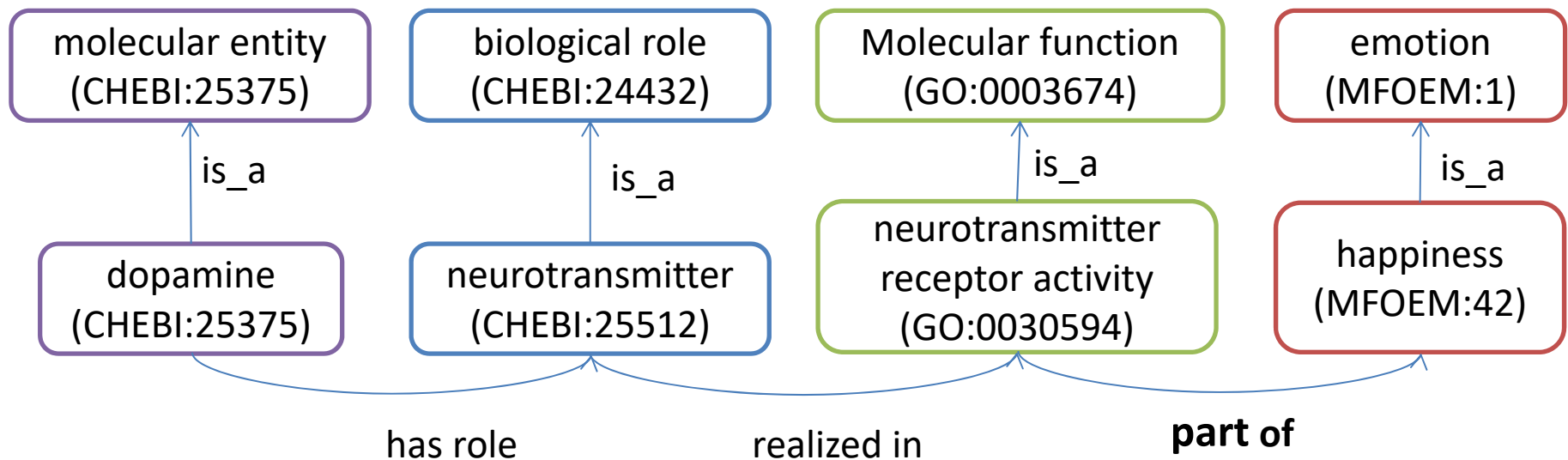


Types of Physiological Response to Emotion



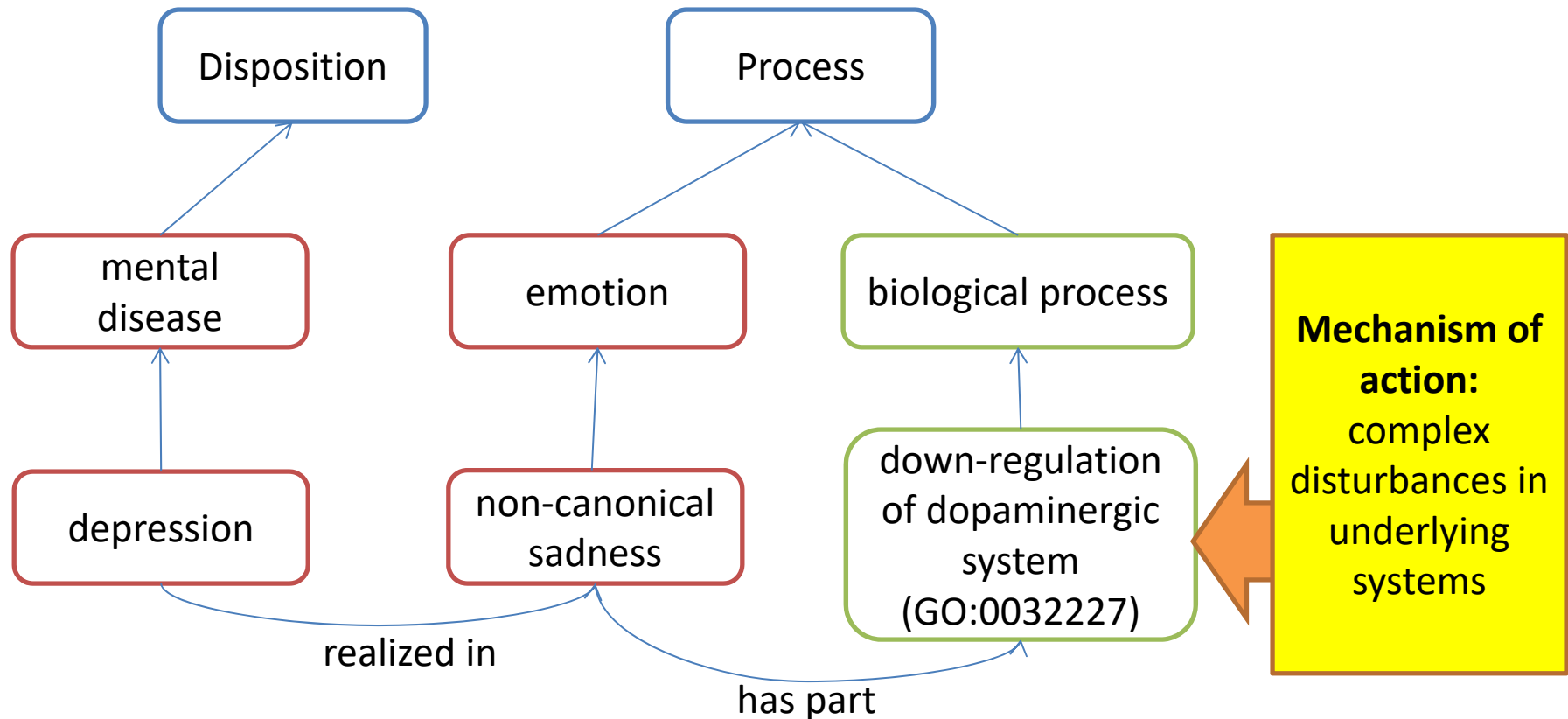
(Part of) the biochemical **basis** of emotion is in ChEBI

Emotions are effected in part by *neurotransmitters* such as dopamine, tryptophan

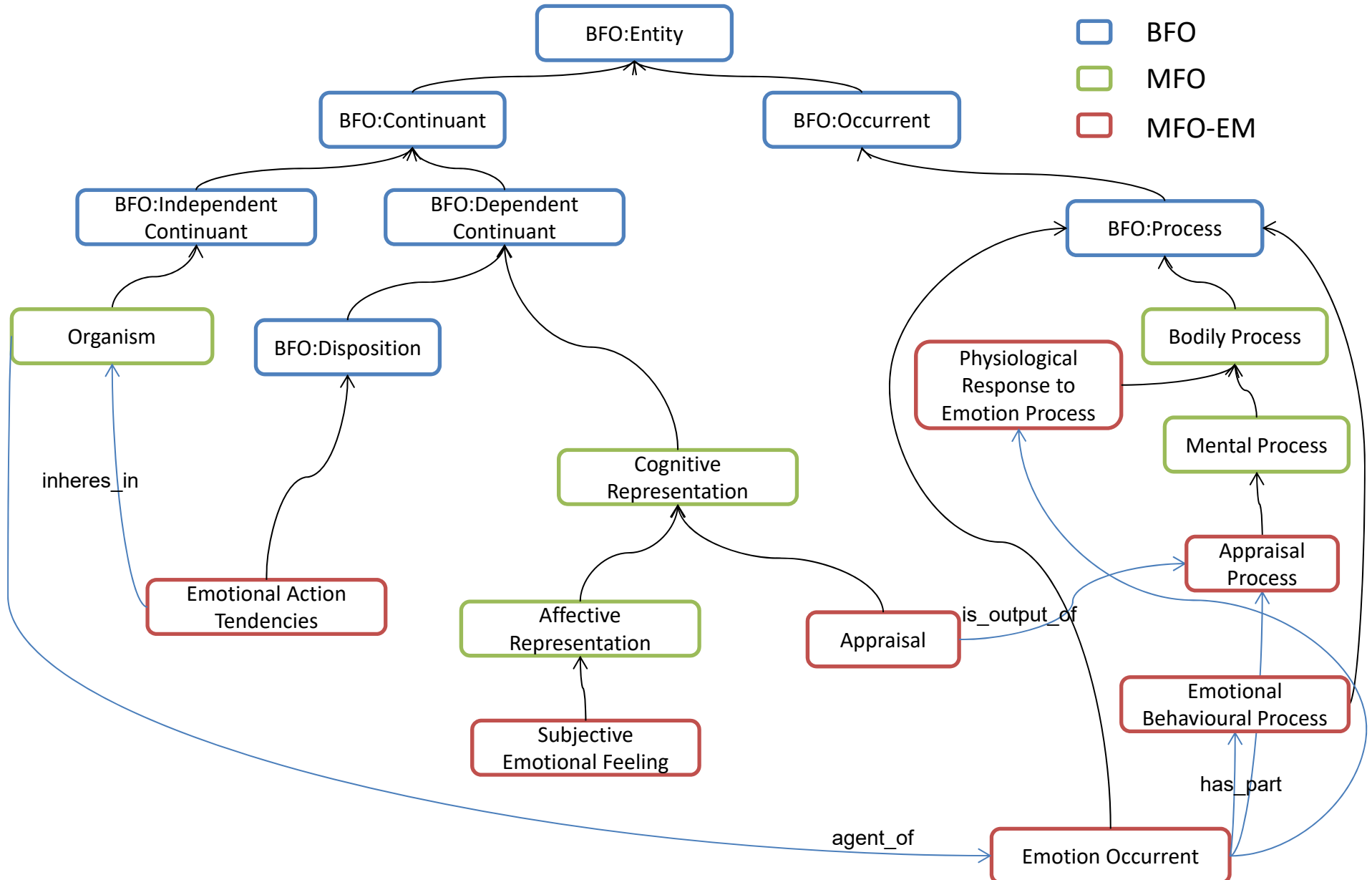


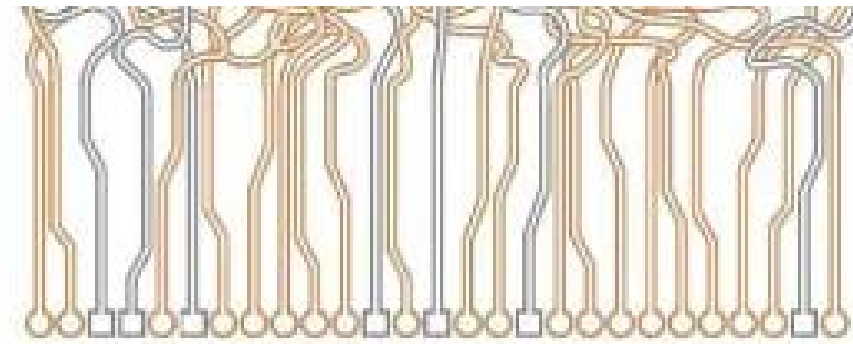
Biological processes in affective disorders

Some mental diseases involve altered emotional functioning (e.g. depression, bipolar disorder)



Top Level of the Emotion Ontology

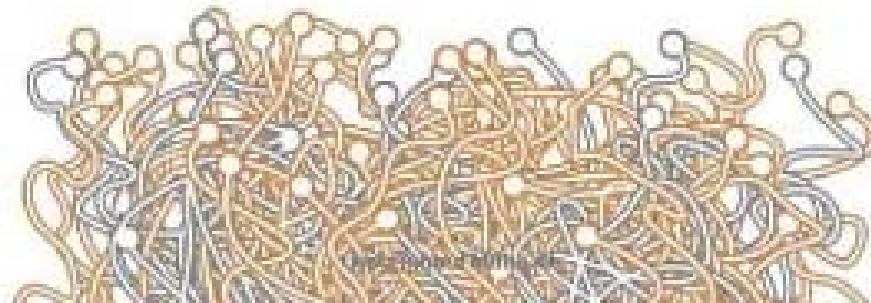




SWITCHING CODES

THINKING THROUGH
DIGITAL TECHNOLOGY
IN THE HUMANITIES
AND THE ARTS

EDITED BY
THOMAS BARTSCHERER
AND
RODERICK COOVER



Dancing with the Ontological Engineers

**WERNER CEUSTERS
AND BARRY SMITH**

A certain measured, cadenced step, commonly called a “dancing step”, which keeps time with, and as it were beats the measure of, the Music which accompanies and directs it, is the essential characteristic which distinguishes a dance from every other sort of motion.

Adam Smith (1980, 207)

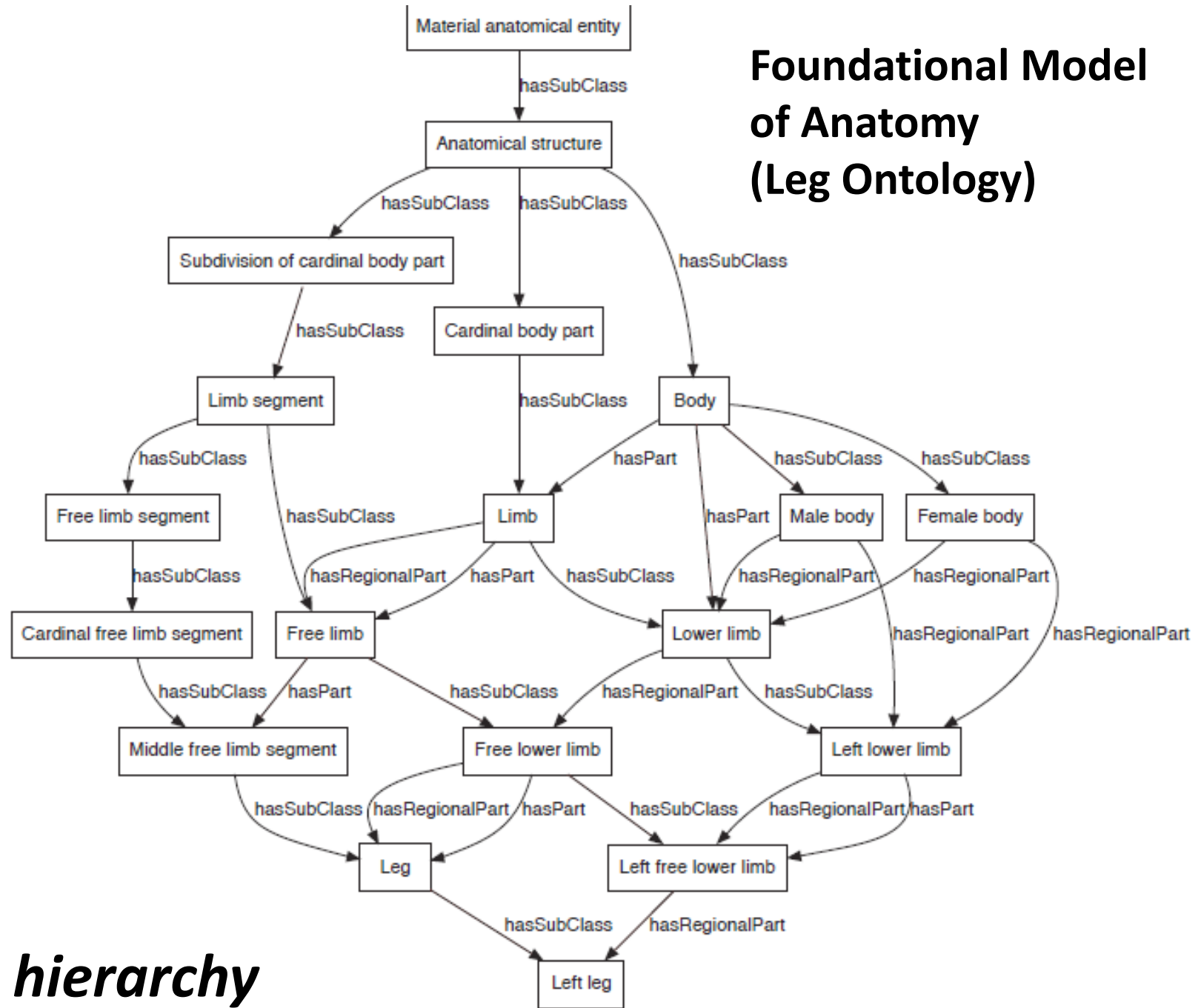


a “half cut” in
Irish *Sean-nós*
dancing

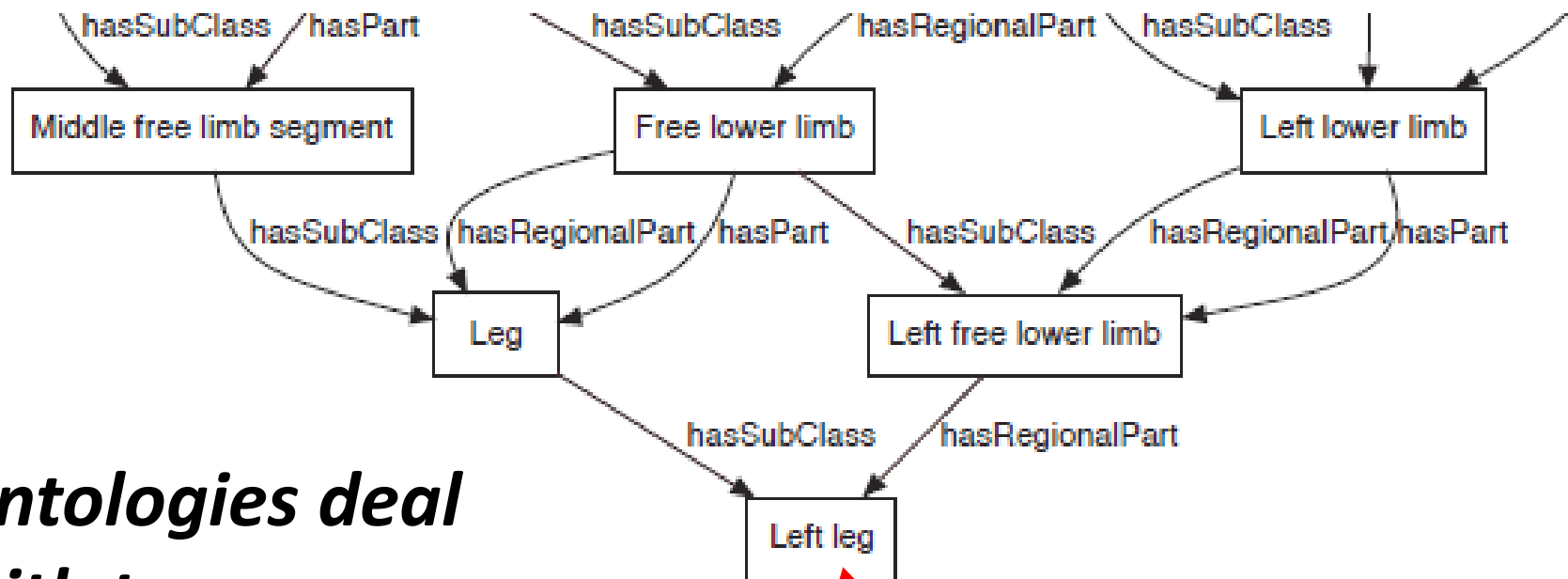
a short movement of one lower leg
crossing the other leg with the foot
pointing outward

- part of a mannequin's step on the catwalk
- an epileptic jerk
- the kicking of a ball by a soccer player
- a signal ("Get out!") issued in heated conversation

Foundational Model of Anatomy (Leg Ontology)



is_a hierarchy



***Ontologies deal
with types***

instance_of

**names for types are
used to tag data
about instances**



Discoverability

- How to find choreography, videos, dress patterns, music scores, descriptions from the social pages relating to the 17th-century English *quadrille* precursors of the 20th-century Appalachian square dance?

Convention for the Safeguarding of the Intangible Cultural Heritage (UNESCO 2003)

The earlier “folklore” model supported scholars and institutions in documenting and preserving a record of disappearing traditions.

The more recent model aims to sustain a living tradition by **supporting the conditions necessary for cultural reproduction.**

Answer: build the *danceome*

= a collection of all the data we have pertaining to

- dance journalism, fiction, history, biographies of dancers and of dance impresarios, programs ...
- paintings, photographs, vidoes, dress patterns, museum artifacts ...
- choreographical scores ...

build a Dance Ontology

combine it with a Music Ontology, a Dress Ontology, a Body Part Ontology, Body Part Movement Ontology, Emotion Ontology ...

use the result to annotate the
danceome

create the empirical basis for a history
of dance

What is the philosophome?

A collection of data and literature relating to

- people
- publications, editions
- sociology
 - schools
 - movements
 - places
 - organizations
 - surrounding cultural and historical events
- ideas, examples and counterexamples, arguments and counterarguments, evidence ...

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The Philosophy Family Tree

An academic genealogy of philosophers

Only one type of link: *is_Doktorvater_of*

- as wiki
- as indented list
- as linked graph

The largest (and longest) chain of links begins with Leibniz

140,000 entries

From 1930 onwards overwhelmingly ~~German~~
Anglo-Saxon

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~~Anglo-Saxon~~ Anglo-Saxophone

as wiki (still working)

 **philosophyfamilytree**

home

Welcome to the Philosophy Family Tree

Getting Started

- About the [Philosophy Family Tree](#) project.
- List of [Orphans](#)

Need Help?

- Click on the help link above to learn more about how to use your wiki.

<http://philosophyfamilytree.wikispaces.com>

 Recent Changes

 Pages and Files

 Members



▼ All Pages

home

A Brennan

A. Russell

Aage Holter

Aaron Fichtelberg

Abraham Kaestner

Abraham Melden

Adam Feltz

Adam Sedgewick

Adam Sennet

Adele Mercier

Aderemi Artis

Adolf Grünbaum

The Philosophy Family Tree as tabbed list

Root1
.... 2 Gottfried Leibniz 1663 -
..... 3 Jacob Bernoulli
..... 4 Johann Bernoulli
..... 5 Leonhard Euler
..... 6 Joseph Lagrange
..... 7 Simeon Poisson
..... 8 Michel Chasles
..... 9 H.A. Newton
..... 10 E.H. Moore
..... 11 Oswald Veblen
..... 12 Alonzo Church
..... 13 Alan Turing
..... 13 Stephen Kleene
..... 14 John Addison
..... 15 J.J. Letourneau
..... 13 Leon Henkin
..... 13 Michael Rabin
..... 14 Saharon Shelah
..... 13 Gary Mar
..... 13 Dana Scott

Leibniz lineage includes also Wolff, Kant, Brentano,
Ingarden, Tarski, Chisholm, Peter H. Hare ...

1. root
 2 Otto Mencke 1665 -
 3 Johann Wichmannhausen
 4 Christian Hausen
 5 Abraham Kaestner
 6 Johann Meyer
 7 Enno Dirksen
 8 Karl Jacobi
 9 Paul Gordan
 10 Emmy Noether
 11 Hans Reichenbach
 12 Hilary Putnam
 13 Paul Benacerraf
 14 Gideon Rosen

Mencke lineage includes also Weierstrass,
 Husserl, Hilbert, Russell, Carnap, Fodor,
 Hempel, Nozick, David Hershenov, ...

1. root

..... 2 Christian Hermann Weisse 1801-1866
..... 3 Hermann Lotze
..... 4 James Ward
..... 5 George Edward Moore
6 Richard Braithwaite
..... 7 Stephen Toulmin
..... 7 Stephen Korner
..... 7 Wolfe Mays 1944 -
..... 8 Kevin Mulligan
..... 8 Barry Smith
8 Peter Simons

Weisse lineage includes also Russell,
Whitehead, Wittgenstein, Quine, David
Lewis, Cornel West, ...

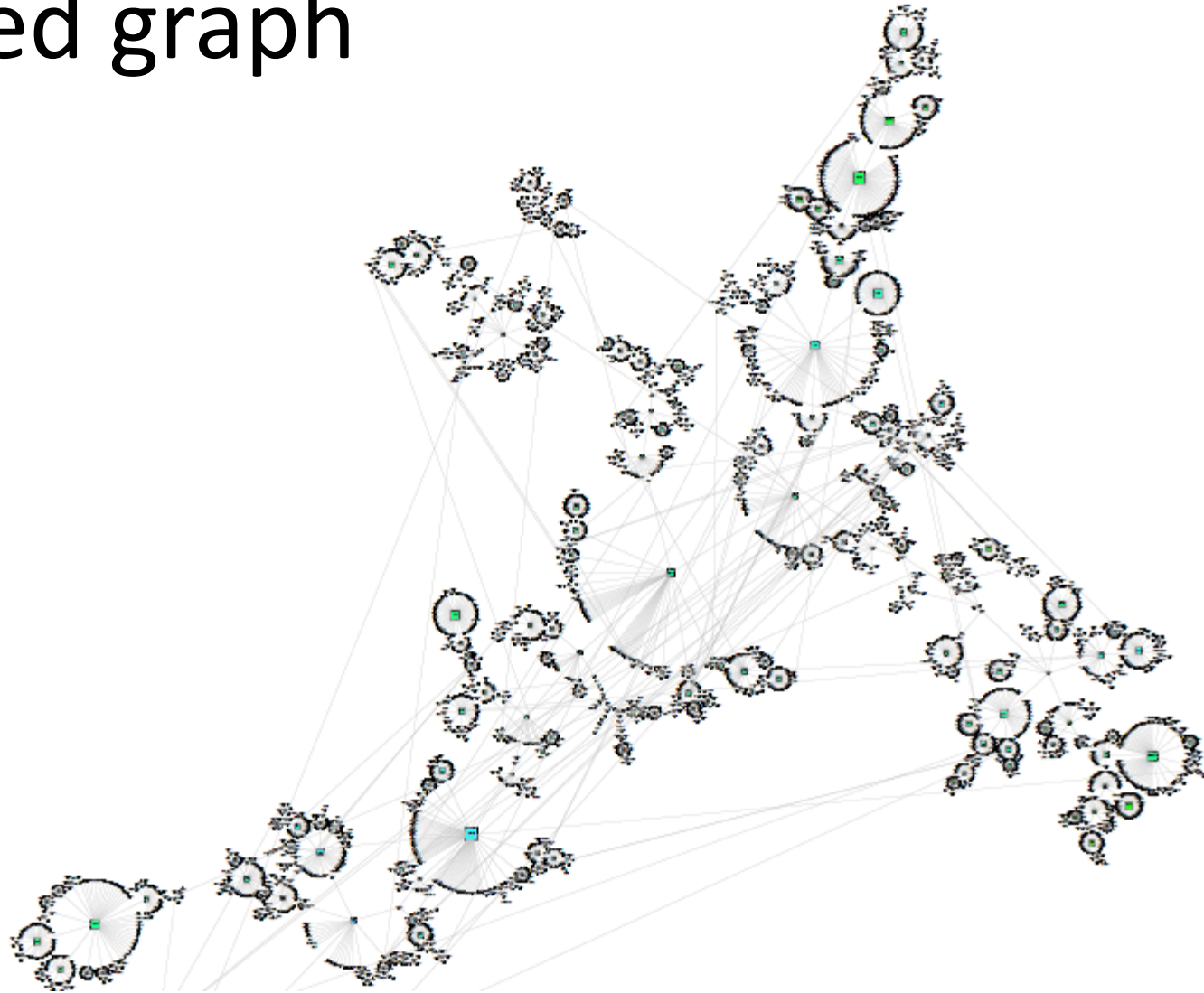
1. Root

.. 2 Jean-le-Rond D'Alembert 1735 -
..... 3 Etienne Bonnot de Condillac
..... 4 Pierre Laromiguerre
..... 5 Victor Cousin
..... 6 Jean Ravaisson-Mollien
..... 7 Jules Lachelier
..... 8 Lucien Levy-Bruhl
..... 9 Etienne Gilson
..... 10 A.A. Maurer
..... 11 J. J. E. Gracia
..... 10 Joseph Owens

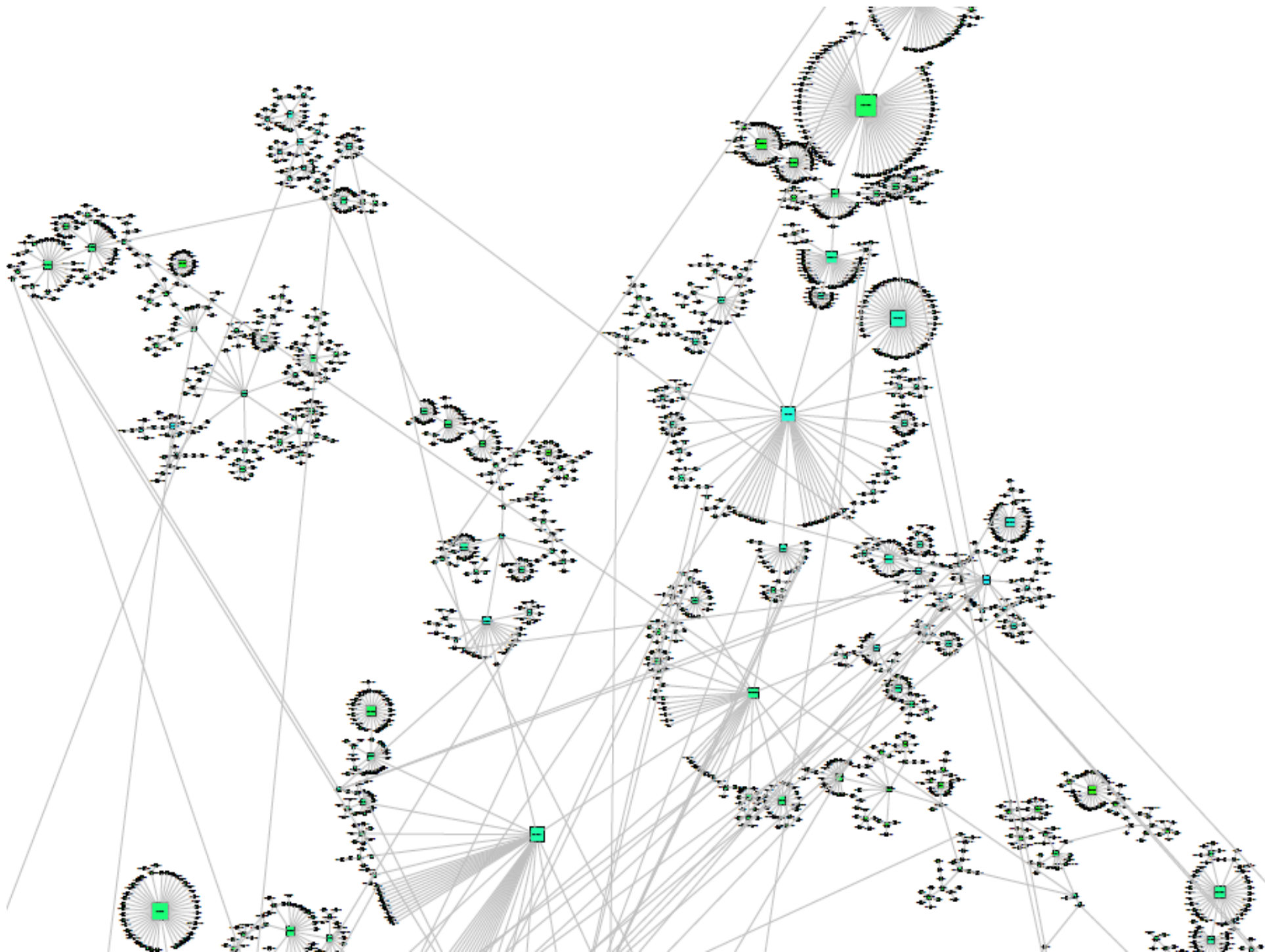
D'Alembert lineage

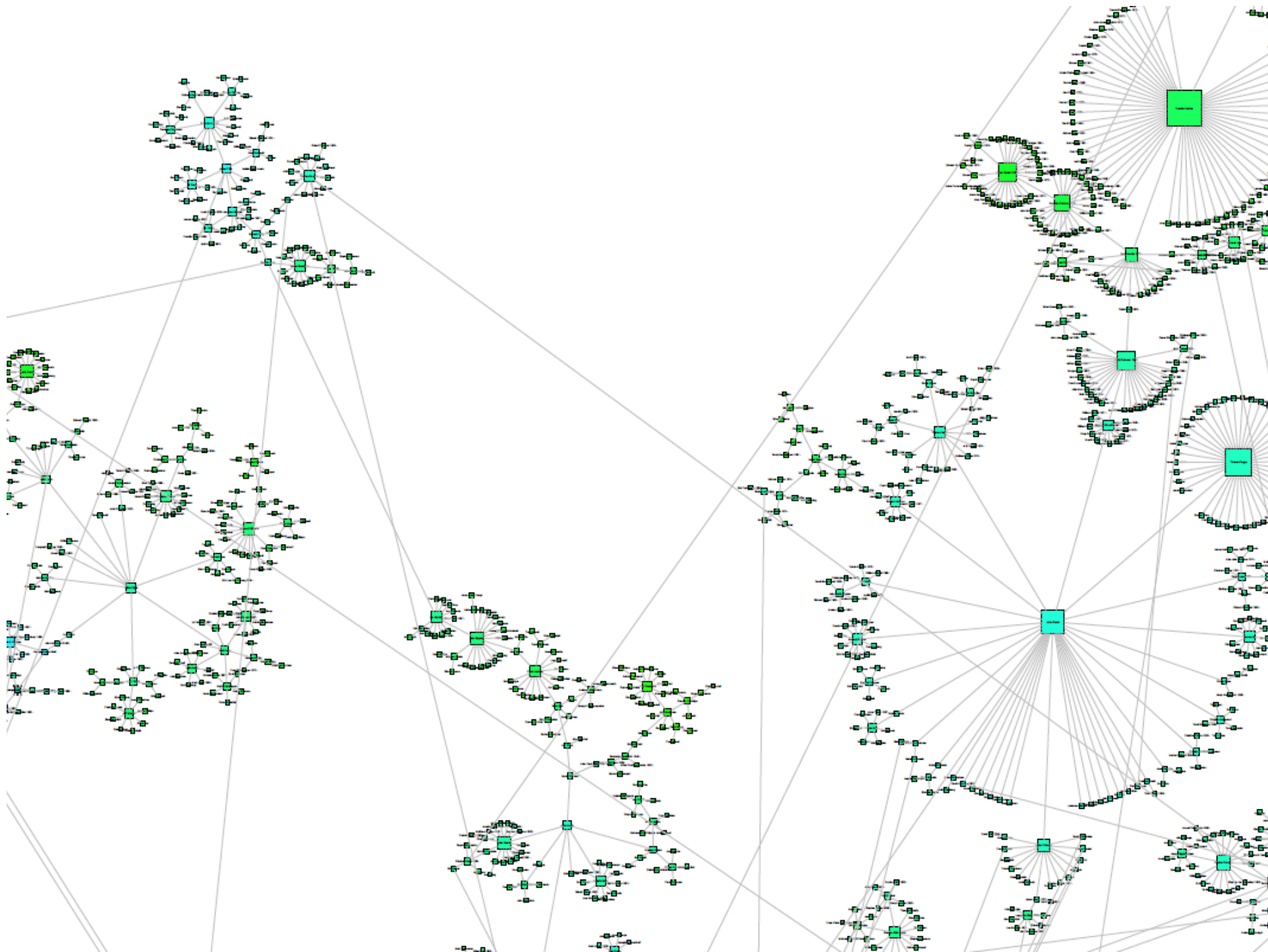
The Philosophy Family Tree

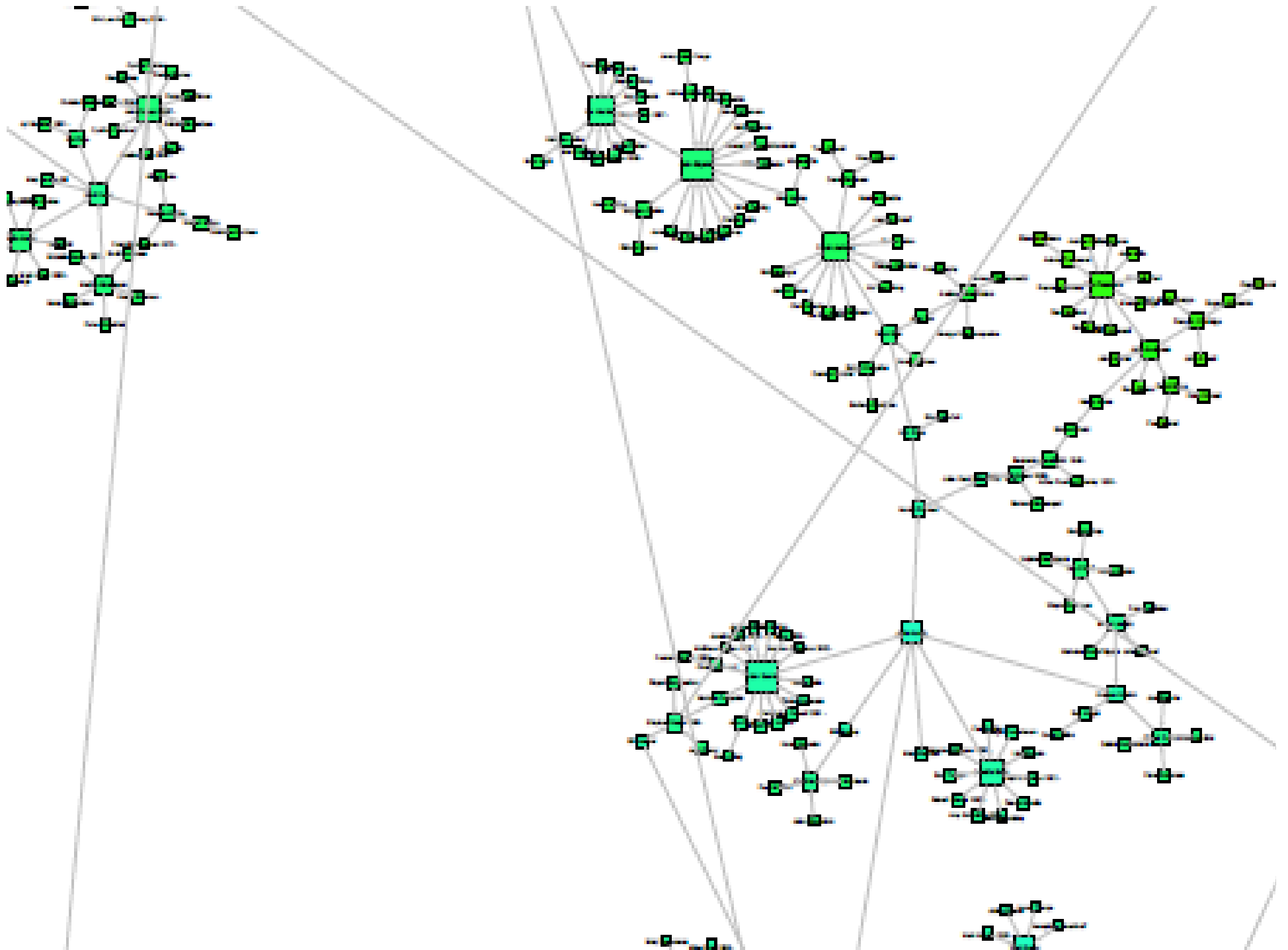
as linked graph

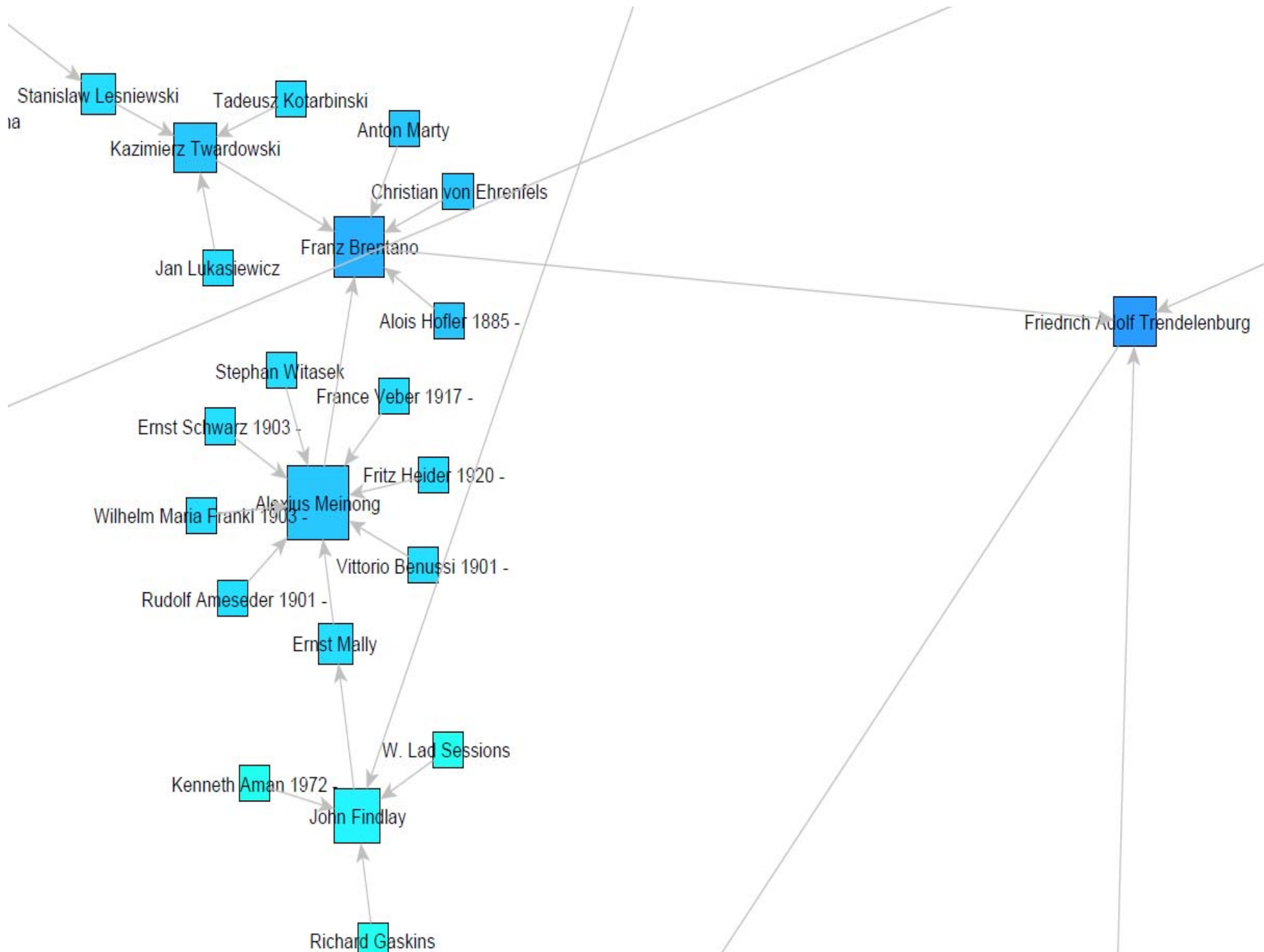


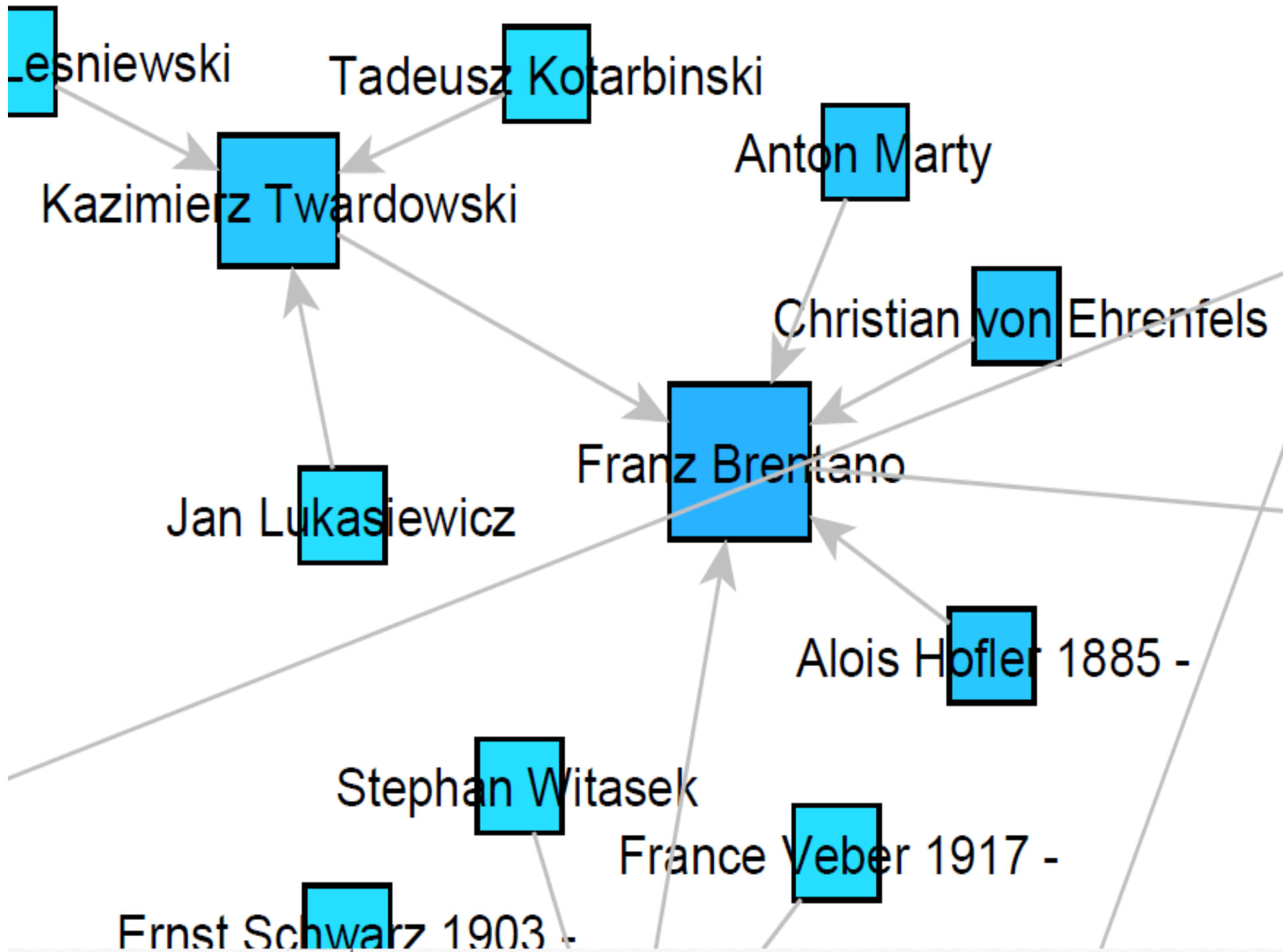
<http://ontology.buffalo.edu/philosophome/philmmap.pdf>





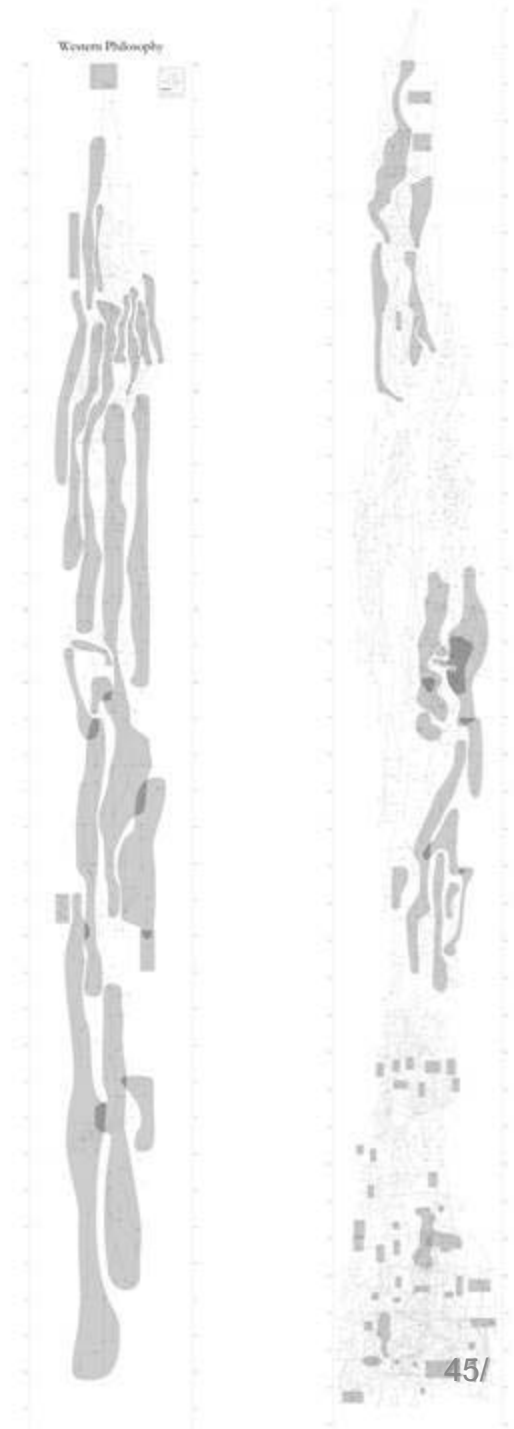


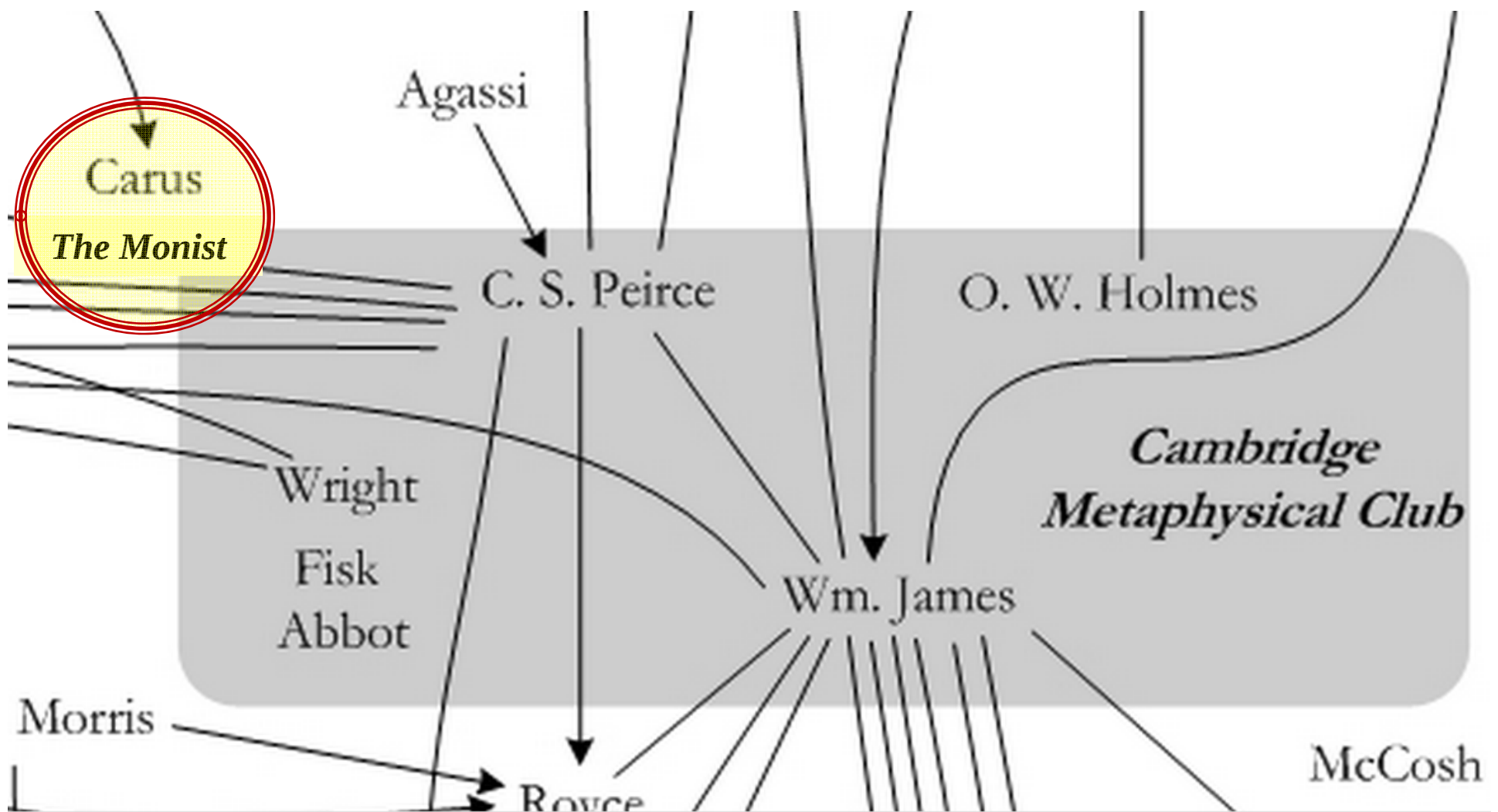




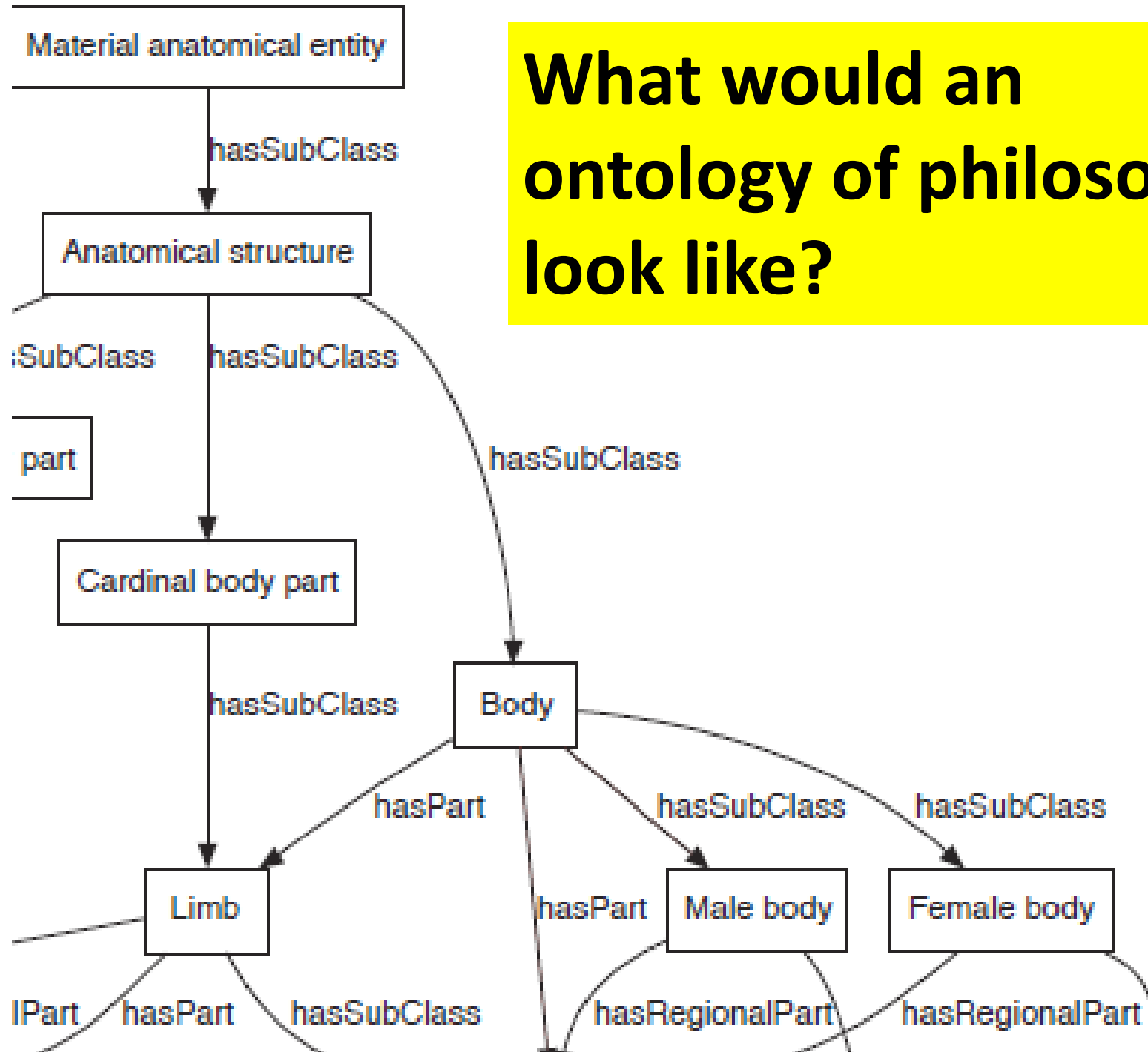
Randall Collins, *The Sociology of Philosophies: A Global Theory of Intellectual Change*

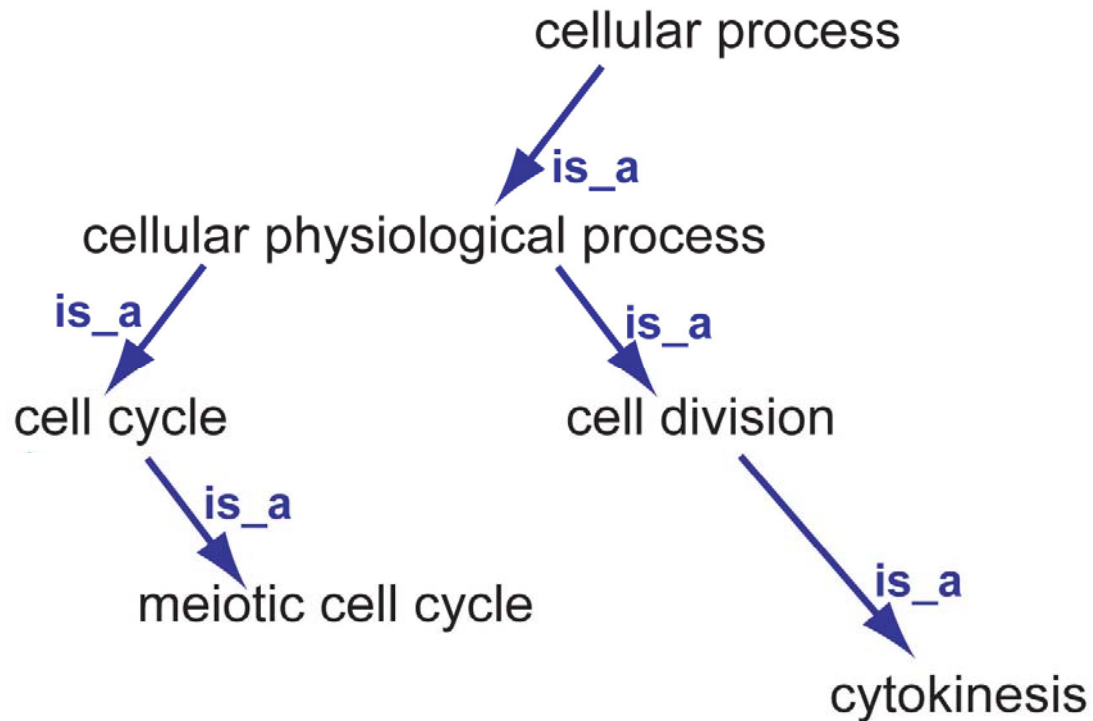
<http://people.cohums.ohio-state.edu/scharp1/> Diagrams





**What would an
ontology of philosophy
look like?**





child: cytokinesis
parent: cell division

the *is_a* ontology traffic rule

everything true of an *is_a* parent term is also true of all its children

female body *is_a* body

everything true of body is also true of female body

free lower limb *is_a* limb

leg *is_a* free lower limb

left leg *is_a* leg

an index does not need to follow
this rule

cancer

cancer documentation

cancer hospital

cancer therapy

cancer (astrological sign)

Categories and Editors

Welcome to the PhilPapers Bibliography, the most comprehensive bibliography of philosophy. The bibliography currently contains a complete listing of categories and editors.

General Editors

[David Bourget](#) (University of Western Ontario)

[David Chalmers](#) (Australian National University; New York University)

Assistant General Editor: [Steve Pearce](#) (UWO)

Areas and Area Editors

Metaphysics and Epistemology

[Epistemology](#) (Matthew McGrath)

[Metaphilosophy](#) (Jonathan Jenkins Ichikawa)

[Metaphysics](#) (Jonathan Schaffer)

[Philosophy of Action](#) (Constantine Sandis)

[Philosophy of Language](#) (Berit Brogaard)

[Philosophy of Mind](#) (David Chalmers, David Bourget)

[Philosophy of Religion](#) (Thomas Senor)

Value Theory (Daniel Star)

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[Applied Ethics](#) (Ezio Di Nucci)

[Meta-Ethics](#) (Daniel Star)

[Normative Ethics](#) (Jussi Suikkanen)

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<http://philpapers.org/>

All categories and editors

Visit a category to apply for an editorship.

Categories marked with a * are links to categories in other areas.

Metaphysics and Epistemology ^(140,914)

Epistemology ^(14,688) Matthew McGrath

Epistemological Sources ^(1,182 | 7) Joachim Horvath

The A Priori ^(355 | 22) Joachim Horvath

Apriority and Necessity ⁽⁸⁹⁾

Apriority in Mathematics* ⁽³⁴⁾ Alexander C. R. Oldemeier

Conceptual Analysis* ⁽¹⁴⁴⁾ Joachim Horvath

Modal Rationalism* ⁽²⁸⁾ Anand Vaidya

Moral Rationalism* ⁽⁷⁰⁾ Christopher Michael Cloos

Rationalism* ^(92 | 74) Magdalena Balcerak Jackson

The A Priori, Misc ⁽¹²¹⁾ Joachim Horvath

The Synthetic A Priori ⁽⁴⁰⁾

Theories of the A Priori ⁽⁸³⁾ Joachim Horvath

Intuition ^(250 | 27) Ole Koks vik

Epistemology of Intuition ⁽¹³¹⁾ Ole Koks vik

Intuition, Misc ⁽³³⁾ Ole Koks vik

this is not an
ontology, it is
an index

All categories and editors

Visit a category to apply for an editorship.

Categories marked with a * are links to categories in other areas.

Metaphysics and Epistemology ^(140,914)

Epistemology ^(14,688) Matthew McGrath

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Rationalism* ^(92 | 74) Magdalena Balcerak Jackson

The A Priori, Misc ⁽¹²¹⁾ Joachim Horvath

The Synthetic A Priori ⁽⁴⁰⁾

Theories of the A Priori ⁽⁸³⁾ Joachim Horvath

Intuition ^(200 | 21) Ole Koksvik

Epistemology of Intuition ⁽¹³¹⁾ Ole Koksvik

Intuition, Misc ⁽³³⁾ Ole Koksvik

what you get in PhilPapers when you search for 'aging'

+ Brain Imaging

Applied Ethics : Biomedical Ethics : Neuroethics

+ Aging

Applied Ethics : Biomedical Ethics : Health Care Ethics

+ Feminism: Aging

Phil of Gender, Race, and Sexuality : Feminist Phil : Topics in Feminist Phil

PhilPapers categories list

- includes 'Searle' – but only under 'Searle's biological naturalism'
- includes 'taxonomy' – but only under 'psychiatric taxonomy'
- includes 'institutions' – but only under
 - 'economic institutions'
 - 'institutions of racism'
- does not include 'individuality'
- does not include 'individuation'

the Indiana Philosophy Ontology project

The ontology currently covers philosophical **ideas**, **thinkers**, and **journals**.

→ Browse the Taxonomy



Dynamic Ontology

The InPhO is constructed by a novel 3-step semi-automated process, called **dynamic ontology**:

1. **Data Mining** — Natural language processing (NLP) techniques generate statistical hypothesis about the relationships among philosophically-salient topics.
2. **Expert Feedback** — These hypotheses are evaluated by domain experts through online interfaces.
3. **Machine Reasoning** — Our machine reasoning program uses feedback and statistical measures to populate the ontology.



InPhO : The Taxonomy

the Indiana Philosophy Ontology project

aesthetics and philosophy of art

african and african-american philosophy

arabic and islamic philosophy

chinese philosophy

continental philosophy

epistemology

ethics

feminist philosophy

history of philosophy

Click
Click

Latin American and Iberian Philosophy

 Latin American and Iberian Philosophy can be searched on PhilPapers.



No data! The InPhO current contains no statistical information on latin american and iberian philosophy. This is likely a new concept for the ontology, and statistical information will be added after our nightly data mining. If this page continues to lack data, please inform us at inpho@indiana.edu.

 latin american and iberian philosophy

 logic

another important ontology traffic rule:
don't confuse 'and' with 'or'

- african and african-american
- arabic and islamic philosophy

aesthetics and philosophy of art ●

○ african and african-american p

○ arabic and islamic philosophy

○ chinese philosophy

continental philosophy ●

epistemology ●

ethics ●

feminist philosophy ●

history of philosophy ●

aesthetics and philosophy of art ●

○ african and african-american philosophy

○ arabic and islamic philosophy

○ chinese philosophy

continental philosophy ●

epistemology ●

applied ethics ●

ethics ○

○ history of ethics

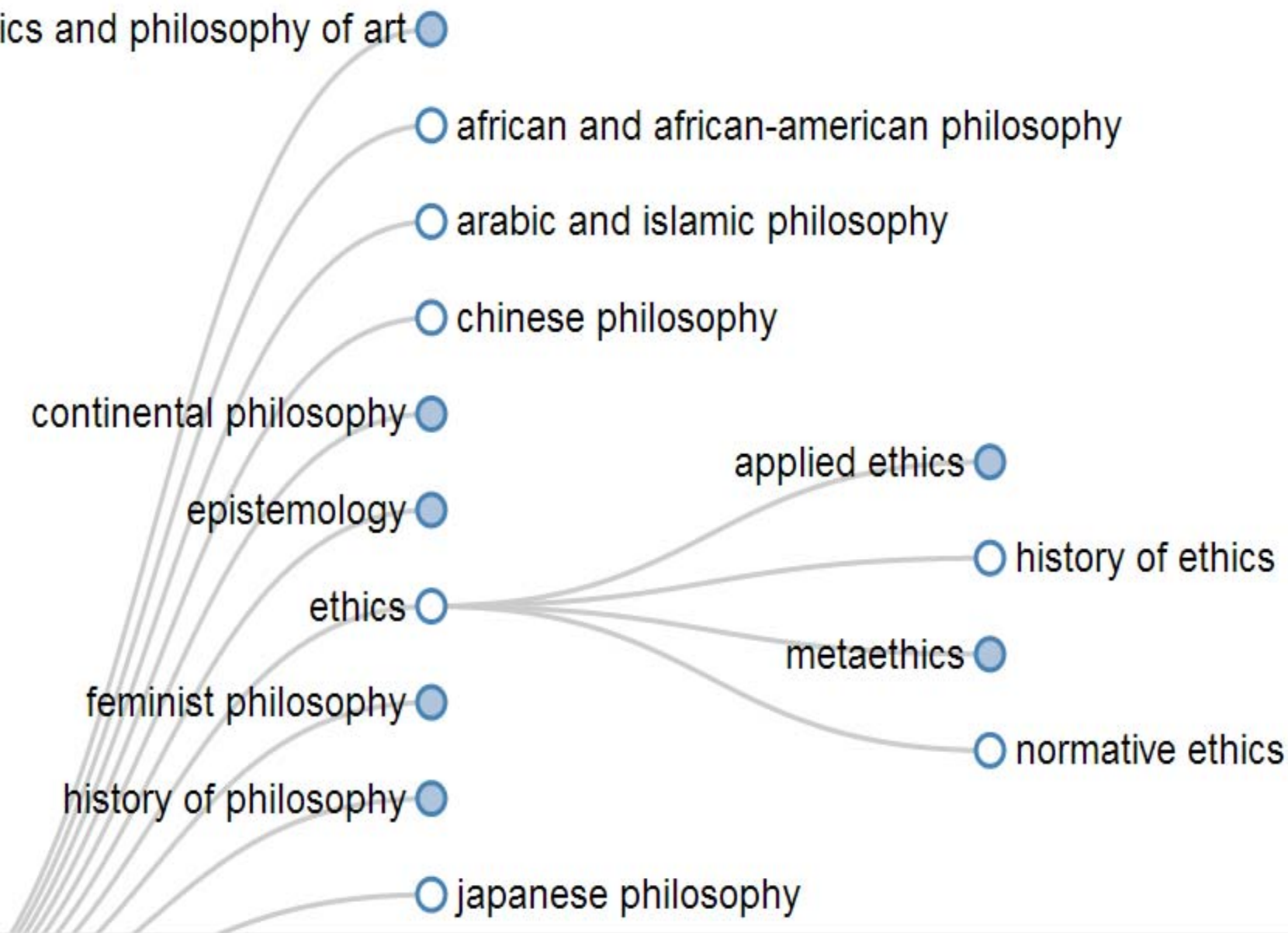
feminist philosophy ●

metaethics ●

history of philosophy ●

○ normative ethics

○ japanese philosophy



breaks the *is_a* rule

history of logic *is_a* logic

history of ethics *is_a* ethics

Christian Hermann Weisse

 [Christian Hermann Weisse](#) also has a Wikipedia article.

 [Christian Hermann Weisse](#) can be searched on PhilPapers.

Birth Dates:	August 10, 1801
Death Dates:	September 19, 1866
Nationality/ethnicity:	German
Profession:	Philosopher

Related Terms

-  [Personalism](#)
-  [Idealism](#)
-  [Individuals](#)



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-  [Idealism](#)
-  [Individuals](#)



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Works by Christian Hermann Weisse

([view other items matching `Christian Hermann Weisse`](#), [view all matches](#))

Did you mean: [Weiss, Christian Herman](#)

Nothing found.

https://inpho.cogs.indiana.edu/taxonomy/2246



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Papers

Data ▾



pp Feminist Philosophy can be search



○ Philosophy

- aesthetics and philosophy of art
- african and african-american philosophy
- arabic and islamic philosophy
- chinese philosophy
- continental philosophy
- epistemology
- ethics
- **feminist philosophy**
- history of philosophy
- japanese philosophy
- judaic philosophy
- latin american and iberian philosophy
- logic

Instances

- 🔍 Feminist Perspectives on Sex Markets
- 🔍 Feminist Perspectives on Power
- 🔍 Feminist Social Epistemology
- 🔍 Feminist Philosophy of Language
- 🔍 Feminist Perspectives on Reproduction and Family

another important ontology traffic rule:
don't confuse: *is_a* and *instance_of*

capital city *is_a* [type of] city

Toronto *instance_of* city

InPhO says:

feminist philosophy of language
instance_of feminist philosophy

- african and african-american philosophy
- arabic and islamic philosophy
- chinese philosophy
- continental philosophy
- epistemology
- ethics
- feminist philosophy
- **feminist interventions**
- methods in feminism
- history of philosophy
- japanese philosophy
- judaic philosophy
- latin american and iberian philosophy
- logic

Instances



- Q Radical Feminism
- Q Feminist Interventions in Moral Psychology
- Q Feminist Interventions in the Philosophy of Law
- Q Feminist Interventions in the Philosophy of Religion
- Q Feminist Interventions in the Philosophy of Language
- Q Feminist Interventions in Environmental Philosophy
- Q Feminist Interventions in Epistemology

Feminist Interventions in Epistemology

Philosophy → Feminist Philosophy → Feminist Interventions

 [Feminist Interventions in Epistemology](#) can be searched on PhilPapers



No data! The InPhO current contains no statistical information on feminist epistemology. This is likely a new concept for the ontology, and statistics will be added after our nightly data mining. If this page continues to lack data, please inpho@indiana.edu.

Synthese, 2011, 182 (2) (Ontology Issue)

Foundations of an ontology of philosophy

Pierre Grenon · Barry Smith

PhilOnto

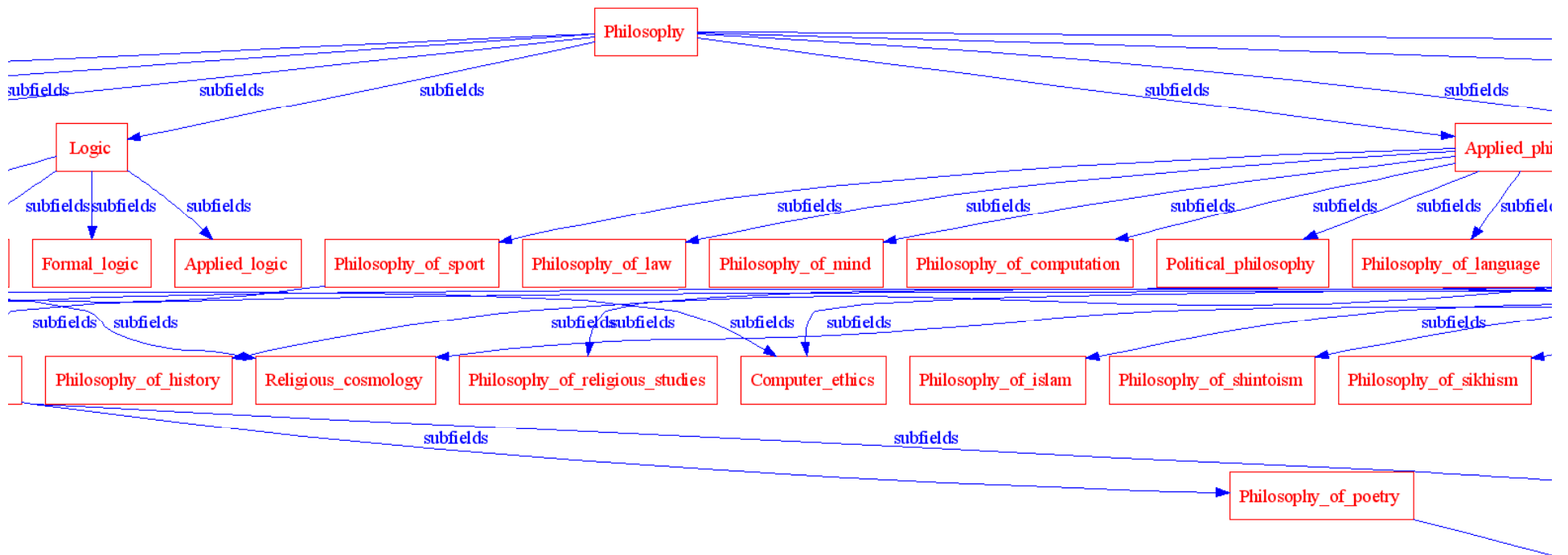
Received: 28 August 2008 / Accepted: 11 March 2009

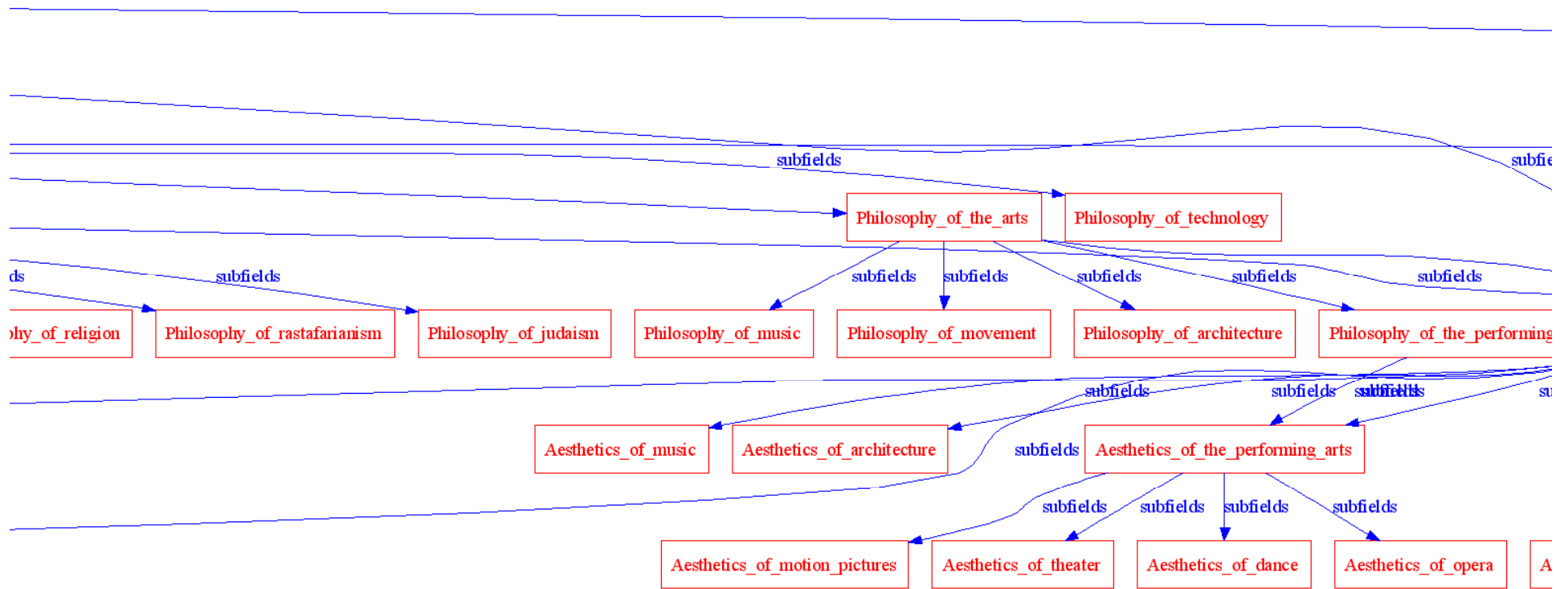
© Springer Science+Business Media B.V. 2009

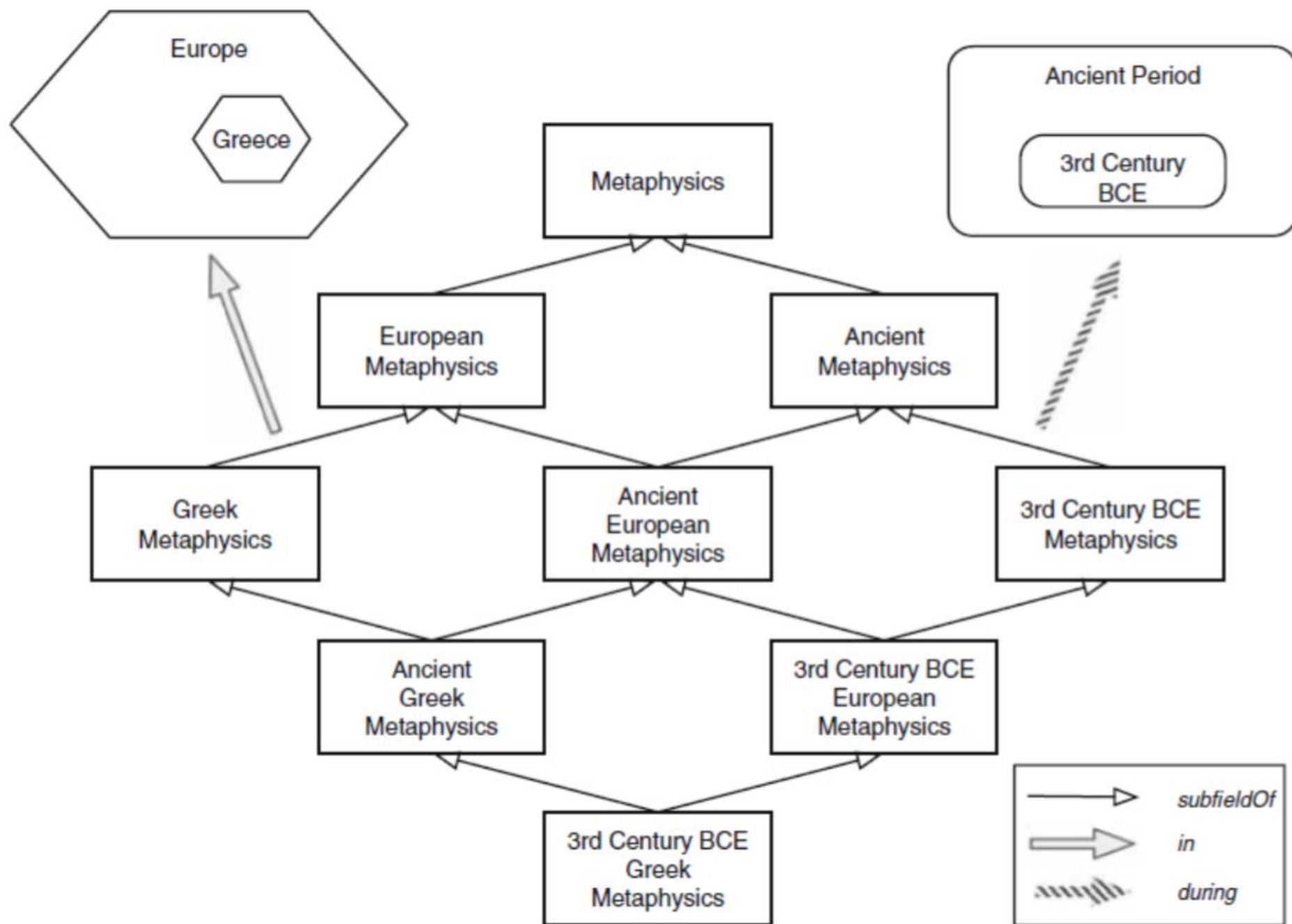
Abstract We describe an ontology of philosophy that is designed to aid navigation through philosophical literature, including literature in the form of encyclopedia arti-

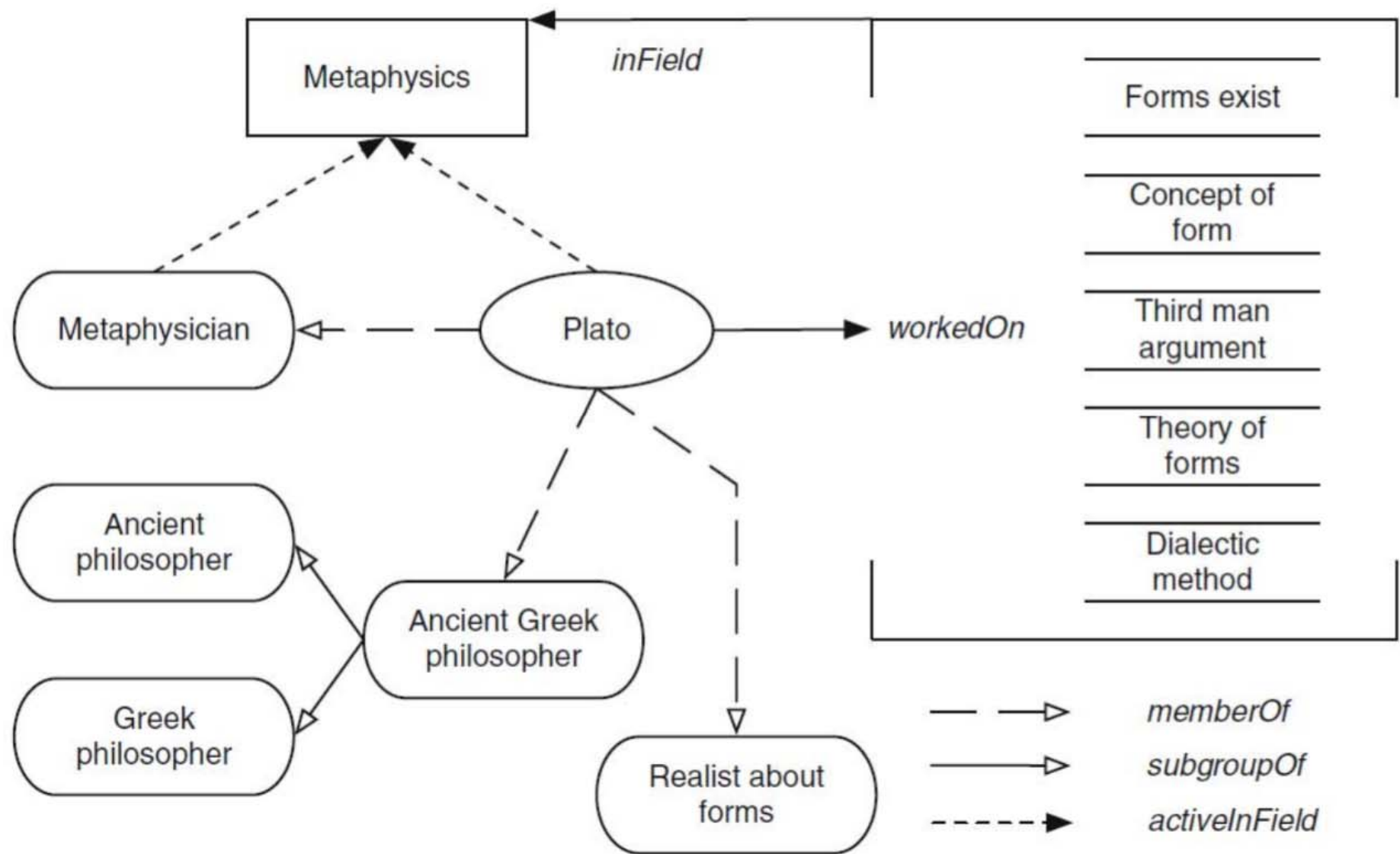
relations in PhilOnto

	group	concept	field
person	<i>memberOf</i>	<i>workedOn</i>	<i>activeIn</i>
group	<i>subgroupOf</i>	<i>workedOn</i>	<i>activeIn</i>
concept	-	<i>subconceptOf</i>	<i>infield</i>
field	-	-	<i>subfieldOf</i>
philosophical entity	-	-	<i>inField</i>





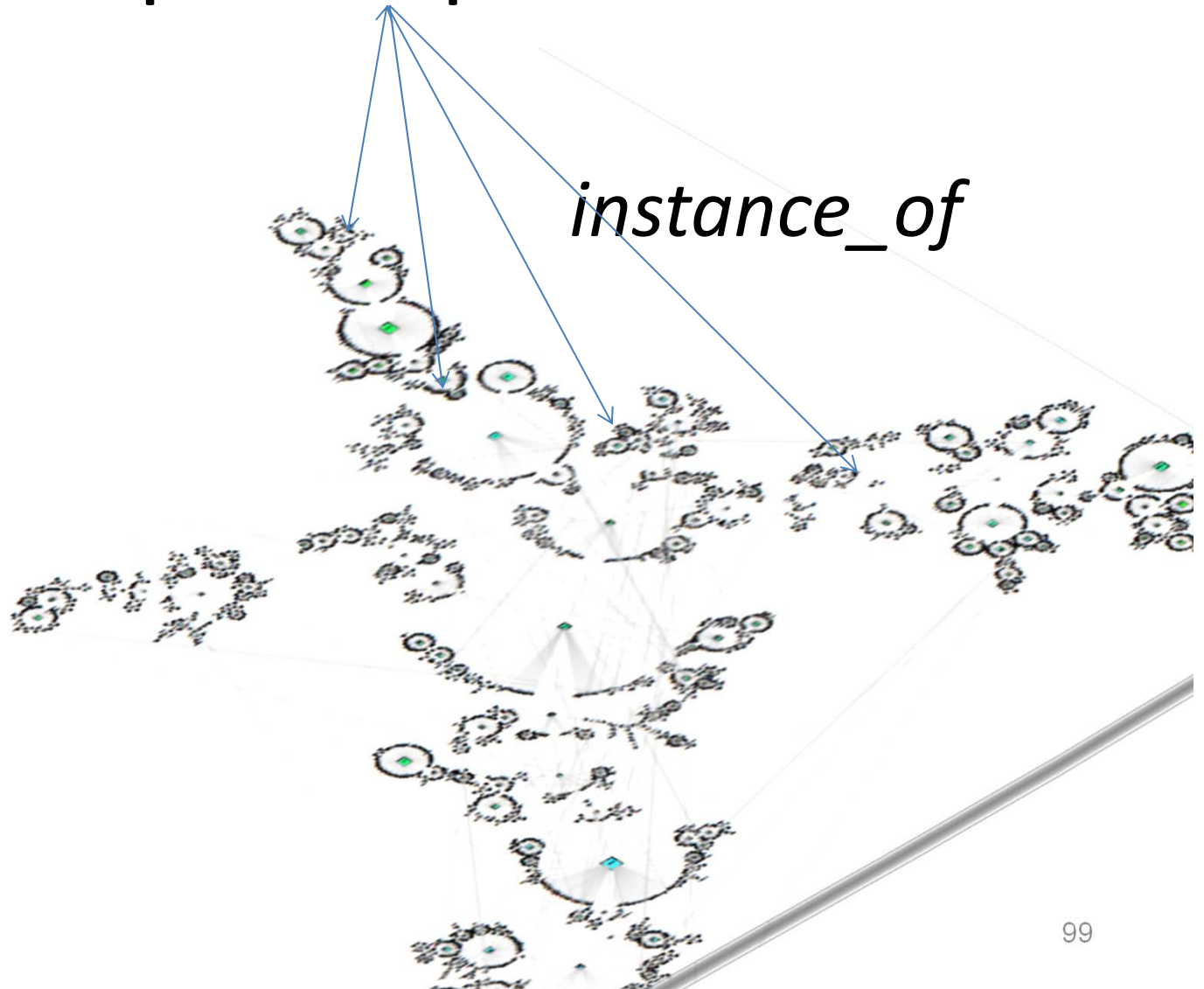




What can we do with PhilOnto?

philosopher

instance_of



subtypes of philosopher

Philosopher_of_printmaking

Philosopher_of_sculpture

(Aesthetician_of_sculpture)...

Ethicist_of_sculpture

Philosopher_of_the_humanities

Philosopher_of_history

Philosopher_of_literature

Aesthetician_of_literature

Aesthetician_of_poetry

Philosopher_of_poetry

(Aesthetician_of_poetry)...

Philosopher_of_religious_studies

Political_philosopher

Epistemologist

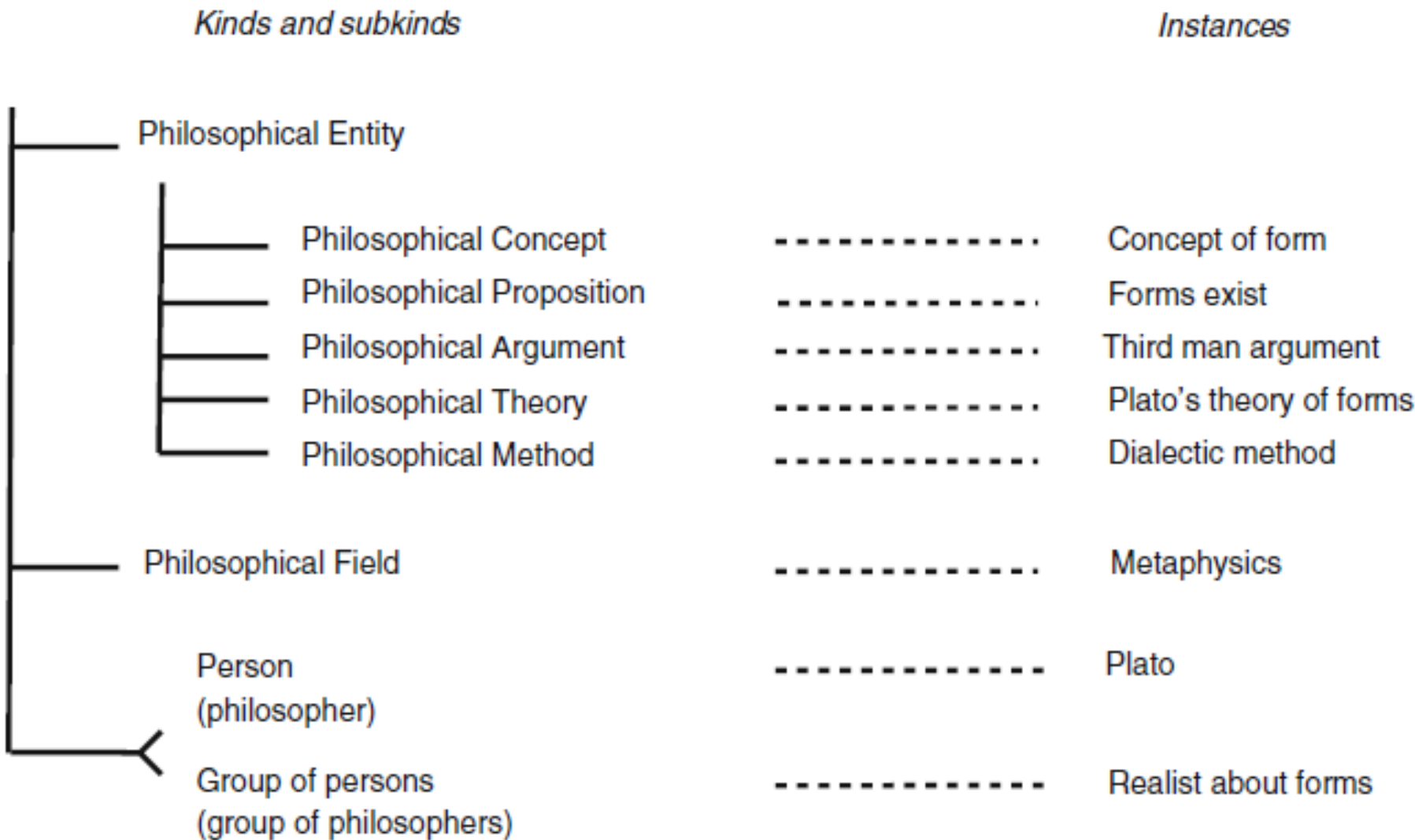


Fig. 1 The main kinds of entities in the domain of philosophy and examples of their instances

Semantically enhanced publishing

Use PhilOnto controlled vocabulary for literature curation

- Advance discoverability of data
- Advance logical reasoning over data
- Advance integration of data

The *ome* of biology

MKVSDRRKFEKANFDEFESALNNKNDLVHCPSITLFESIPTEVRSFYEDEKSGLIKVVKFRTGAMDRKRSFEKVVISVMVGKN
VKKFLTFVEDEPDFQGGPIISKYLIPKKINLMVYTLFQVHTLKFNRKDYDTLSLFYLNRGYYNELSFRVLERCHEIASARPND
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RSFYEDEKSGLIKVVKFRTGAMDRKRSFEKVVISVMVGKNVKKFLTFVEDEPDFQGGPIISKYLIPKKINLMVYTLFQVHTLK
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NHDPWMDVVGFEFDPNQVTNRDISRIVLYSYMFLNTAKGCLVEYATFRQYMRELKPNAPQKLNFRMRQGLIALGRHCV
GSRFETDLYESATSELMANHSVQTGRNIYGVDLSLTSVSGTTATLLQERASERWIQWLGLESYHCSFSSTRNAEDVMKVS
DRRKFEKANFDEFESALNNKNDLVHCPSITLFESIPTEVRSFYEDEKSGLIKVVKFRTGAMDRKRSFEKVVISVMVGKNVKK
FLTFVEDEPDFQGGPIISKYLIPKKINLMVYTLFQVHTLKFNRKDYDTLSLFYLNRGYYNELSFRVLERCHEIASARPNDSTM
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SSEPRKLTLDGLTSDYVFYFVTVLRQMQICALGNSYDAFNHDPWMDVVGFEFDPNQVTNRDISRIVLYSYMFLNTAKGCLV
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LLQERASERWIQWLGLESYHCSFSSTRNAEDVMKVSDRRKFEKANFDEFESALNNKNDLVHCPSITLFESIPTEVRSFYE
DEKSGLIKVVKFRTGAMDRKRSFEKVVISVMVGKNVKKFLTFVEDEPDFQGGPIISKYLIPKKINLMVYTLFQVHTLKFNRK
DYDTLSLFYLNRGYYNELSFRVLERCHEIASARPNDSTMRTFTDFVSGAPIVRSLQKSTIRKYGYNLAPYMFLLLHVDELSI
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PIIPSVDEHGLKVCKLRSPNTPRRLRKTLDVAVKALLVSSCACTARDLDIFDDNNGVAMWKWIKILYHEVAQETTLKDSYRITL

What shall serve as the *ome* for philosophy?

The future of the history of philosophy

ontology vs. index

creating an index (so that you can find some topic in a given work literature) is not a good way to create an ontology (which allows you to reason over the things the literature is about)

an index provides you with a guide only to this one piece of literature

an ontology allows you to link what is in this one piece of literature with what is in any other information resource

Harzing's Publish or Perish

find me all the literature in which
Kant, Hilbert and Plato are
simultaneously mentioned

find me all the literature in which
JJE Gracia, Kant and individuation
are simultaneously mentioned

<http://www.harzing.com/>

Author impact

Journal impact

General citations

Multi-query center

Web browser

Check for updates

Help contents

What's new?

2-Minute intro

PoP FAQ

PoP web site

PoP book

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

Author's name: "Karl Popper"

Exclude these names:

Year of publication between: 0 and: 0

Data source: Google Scholar

Results

Papers:	1000	Papers/author:	867.43	h-index:	102	"Karl Popper": all Query date: 2014-04-21 Papers: 1000 Citations: 101761 Years: 113
Citations:	101761	Cites/year:	900.54	g-index:	311	
Years:	113	Cites/auth/year:	703.11	hc-index:	44	
Cites/paper:	101.76	hI,annual:	0.80	hI,norm:	90	

Cites ▾	Per year	Rank	Authors	Title
☒ h 19251	2139.00	2	K Popper	The logic of scientific discovery
☒ h 12227	235.13	1	KR Popper	Conjectures and refutations
☒ h 8119	193.31	3	KR Popper, KR Popper, KR...	Objective knowledge: An evolutionary approach
☒ h 7340	2446.67	4	KR Popper, V Havel, EHJ G...	The open society and its enemies
☒ h 4240	353.33	5	KR Popper	The poverty of historicism
☒ h 2776	75.03	6	KR Popper, JC Eccles, C J...	The self and its brain
☒ h 1838	35.35	38	KR Popper, VS de Zavala	La lógica de la investigación científica
☒ h 1496	748.00	7	K Popper	Unended quest: An intellectual autobiography
☒ h 1304	31.80	47	KR Popper, I Fleischmann	Objektive Erkenntnis
☒ h 1252	113.82	49	KR Popper	Die offene Gesellschaft und ihre Feinde II/Studienausgabe: F
☒ h 1236	123.60	50	KR Popper	A lógica da pesquisa científica

Immanuel Kant + racism

Authors ("A Lastname"):	i kant		
Publication:			
Journal ISSN:			
All of the words:	racism		
Any of the words:			
None of the words:			
The phrase:			
Year of publication between:	0	and:	0 ☐ Title words only
Data source:	Google Scholar		

Results

Papers:	14	Cites/paper:	19.14	h-index:	3	i kant, racism
Citations:	268	Cites/author:	93.00	g-index:	14	Query date: 2016-10-01
Years:	221	Papers/author:	7.89	hI,norm:	3	Papers: 14
Cites/year:	1.21	Authors/paper:	2.86	hI,annual:	0.01	Citations: 268
						Years: 221

Cites	Per year	Rank	Authors	Title	Year
☒ h 142	15.78	6	I Kant, G Zöller, RB Louden	Anthropology, history, and education	2007
☒ h 104	11.56	13	AK Kant, BI Graubard, SK ...	Trends in black-white differentials in dietary intakes of US adults, 1971-2002	2007
☒ h 22	0.10	7	I Kant, P Peace	A Philosophical Sketch	1795
☒ 0	0.00	1	..., A Scalia, A Americans,...	Key Word Index Volume 7	
☒ 0	0.00	2	I Kant	From Academic Kids	
☒ 0	0.00	3	..., DG Johnson, LB Johns...	Atencio, AC, 215	
☒ 0	0.00	4	I Kant	FEMINIST ANTINOMIES	2004
☒ 0	0.00	5	D Bindman, F Hutcheson, ...	EXPECTATIONS	
☒ 0	0.00	8	I Kant	Transcription and editing of the original sources	2006
☒ 0	0.00	9	I Kant, P Peace	Of course, the theorists of the international labor movement approached the idea of the nation in terms of what i...	2010
☒ 0	0.00	10	I KANT	Love and Sex	
☒ 0	0.00	11	I Kant	Der Rassismus und seine wissenschaftlichen Wurzeln bei	
☒ 0	0.00	12	A Figl, I KANT, G Mergner...	THRONEN WIR" ZUR KONTINUITÄT UND RENAISSANCE KOLONIALEN DENKENS IM DEUTSCHEN AFRIKA-BILD* In...	1992
☒ 0	0.00	14	ÉPEIEN KANT...	THOMAS MCCARTHY	2005

Francesc Eiximenis

The phrase:

Francesc Eiximenis

Year of publication between:

0

and:

0

☐ Title words only

Data source:

Google Scholar

Results

Papers:	40	Cites/paper:	11.10	h-index:	13	Francesc Eiximenis, NOT taphonomy
Citations:	444	Cites/author:	373.25	g-index:	18	Query date: 2016-10-02
Years:	91	Papers/author:	30.83	hI,norm:	13	Papers: 40
Cites/year:	4.88	Authors/paper:	1.55	hI,annual:	0.14	Citations: 444
						Years: 91

Cites	Per year	Rank	Authors	Title
☒ h 45	1.25	1	F Eiximenis, OM Cap, DM ...	Regiment de la cosa pública
☒ h 30	0.86	3	F Eiximenis	Libre de les dones
☒ h 29	0.97	2	F Eiximenis	Dotzè Libre dels Crestià
☒ h 26	1.04	4	F Eiximenis	Regiment de la cosa pública
☒ h 24	0.67	5	F Eiximenis	Lo crestià
☒ h 20	0.69	15	DJ Viera, J Piqué	La dona en Francesc Eiximenis
☒ h 18	0.37	20	J Monfrin	LA BIBLIOTHÈQUE DE FRANCESC EIXIMENIS*(1409)
☒ h 17	0.52	6	F Eiximenis	Lo crestià: selecció
☒ h 17	0.21	18	PM de Barcelona	L'ars praedicandi de Francesc Eiximenis
☒ h 16	0.52	21	AA Iglesias	La ciudad ideal según fray Francesc Eiximenis y Rodrigo Sánchez de Arévalo.
☒ h 15	0.45	7	F Eiximenis	Com usar bé de beure e menjar
☒ h 14	0.39	23	DJ Viera	Bibliografia anotada de la vida i obra de Francesc Eiximenis:(1340-1409?)
☒ h 14	0.16	24	P Bohigas	Prediccions i profecies en les obres de Fra Francesc Eiximenis
☒ h 13	0.14	8	F Eiximenis, M Olivar	Contes i faules

individuation + scholasticism

All of the words:

Any of the words:

None of the words:

The phrase:

Year of publication between: and: ☐ Title words only

Data source:

Results

Papers:	160	Cites/paper:	12.69	h-index:	18	individuation scholasticism
Citations:	2031	Cites/author:	1928.50	g-index:	43	Query date: 2016-10-02
Years:	109	Papers/author:	151.00	hI,norm:	18	Papers: 160
Cites/year:	18.63	Authors/paper:	1.13	hI,annual:	0.17	Citations: 2031
						Years: 109

Cites	Per year	Rank	Authors	Title
☒ h 688	25.48	16	G Simondon	L'individuation psychique et collective à la lumière des notions de Forme, Information, Potentiel et Mét
☒ h 167	18.56	73	J Maritain	Art and Scholasticism with Other Essays
☒ h 117	6.88	4	JA Cover, J O'Leary-Hawt...	Substance and individuation in Leibniz
☒ h 117	6.88	65	R Ariew	Descartes and the last scholastics
☒ h 95	2.97	2	JJE Gracia	Introduction to the problem of individuation in the early Middle Ages
☒ h 71	1.82	87	MG Baylor	Action and Person: Conscience in the Late Scholasticism and the Young Luther
☒ h 62	1.15	94	J Maritain, J Scanlan	Art and Scholasticism
☒ h 61	2.77	1	JJE Gracia	Individuation in scholasticism: the later Middle Ages and the counter-reformation, 1150-1650
☒ h 46	0.84	6	G Adler	The Living Symbol a Case Study in the Process of Individuation
☒ h 33	3.30	74	M Zonta	Hebrew Scholasticism in the Fifteenth Century: A History and Source Book
☒ h 32	0.71	91	LC Rice	Spinoza on individuation
☒ h 29	0.29	97	H Driesch	The problem of individuality
☒ h 28	9.33	39	LB McCullough	Leibniz on Individuals and Individuation: the persistence of premodern ideas in modern philosophy
☒ h 27	1.69	44	TA Druart	The human soul's individuation and its survival after the body's death: Avicenna on the causal relation
☒ h 27	2.08	102	M De Wulf	An Introduction to Scholastic Philosophy: Medieval and Modern: Scholasticism Old and New
☒ h 27	1.14	5	ML Gill	Individuals and Individuation

individuation + scholasticism (by year)

All of the words: individuation scholasticism

Any of the words:

None of the words:

The phrase:

Year of publication between: 0 and: 0 ☐ Title words only

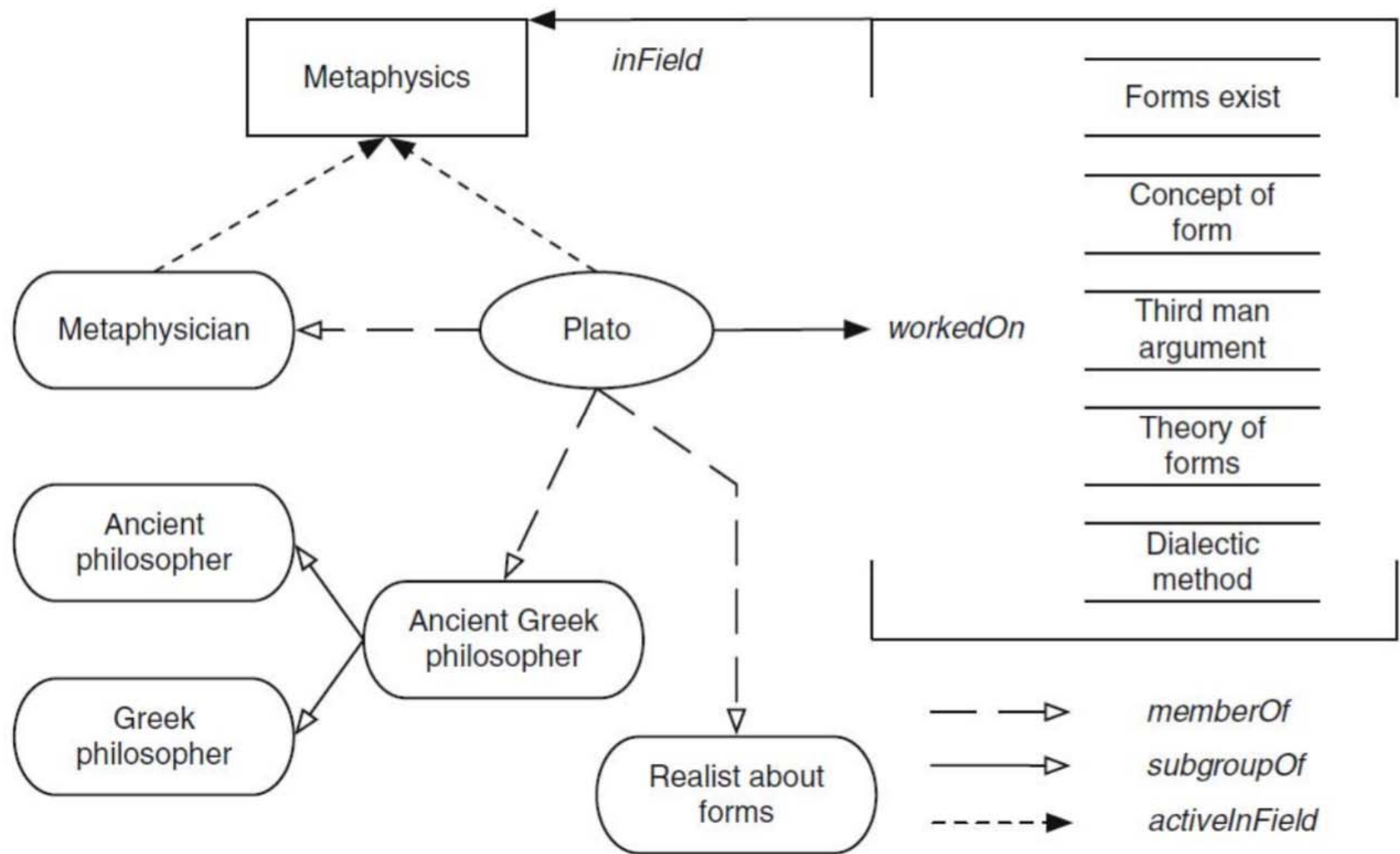
Data source: Google Scholar

Results

Papers: 160 Cites/paper: 12.69 h-index: 18
 Citations: 2031 Cites/author: 1928.50 g-index: 43
 Years: 109 Papers/author: 151.00 hI,norm: 18
 Cites/year: 18.63 Authors/paper: 1.13 hI,annual: 0.17

individuation scholasticism
 Query date: 2016-10-02
 Papers: 160
 Citations: 2031
 Years: 109

Cites	Per year	Rank	Authors	Title	Year
☒ 7	0.06	151	M Wulf	Scholasticism Old and New: An Introduction to Scholastic Philosophy, Medieval and Modern	1907
☒ 12	0.11	100	J Rickaby	Scholasticism	1908
☒ 0	0.00	26	W James	Scholasticism, Old and New	1909
☒ h 29	0.29	97	H Driesch	The problem of individuality	1915
☒ 1	0.01	17	A Nordenholz	Welt als Individuation	1927
☒ 0	0.00	45	E Hauer	Nordenholz, A., Welt als Individuation	1933
☒ 1	0.01	110	P Hoenen, BF Dryden	A Field of Research for Scholasticism	1934
☒ 3	0.04	95	GJ McMorro	A Metaphysical Study on the Individual and the Person	1940
☒ 9	0.13	122	PD Webster	Arrested individuation or the problem of Joseph K. and Hamlet.	1948
☒ 0	0.00	147	V FOCHTMAN, SJ Day	Intuitive Cognition. A Key to the Significance of the Later Scholastics	1949
☒ 0	0.00	53	J Goldbrunner	Individuation, München 1949	1950
☒ 9	0.16	81	RA O'Donnell	Individuation	1959
☒ h 46	0.84	6	G Adler	The Living Symbol a Case Study in the Process of Individuation	1961
☒ h 62	1.15	94	J Maritain, J Scanlan	Art and Scholasticism	1962
☒ 0	0.00	33	AC Pegis	The Middle Ages and Philosophy Some Reflections on the Ambivalence of Modern Scholasticism	1963



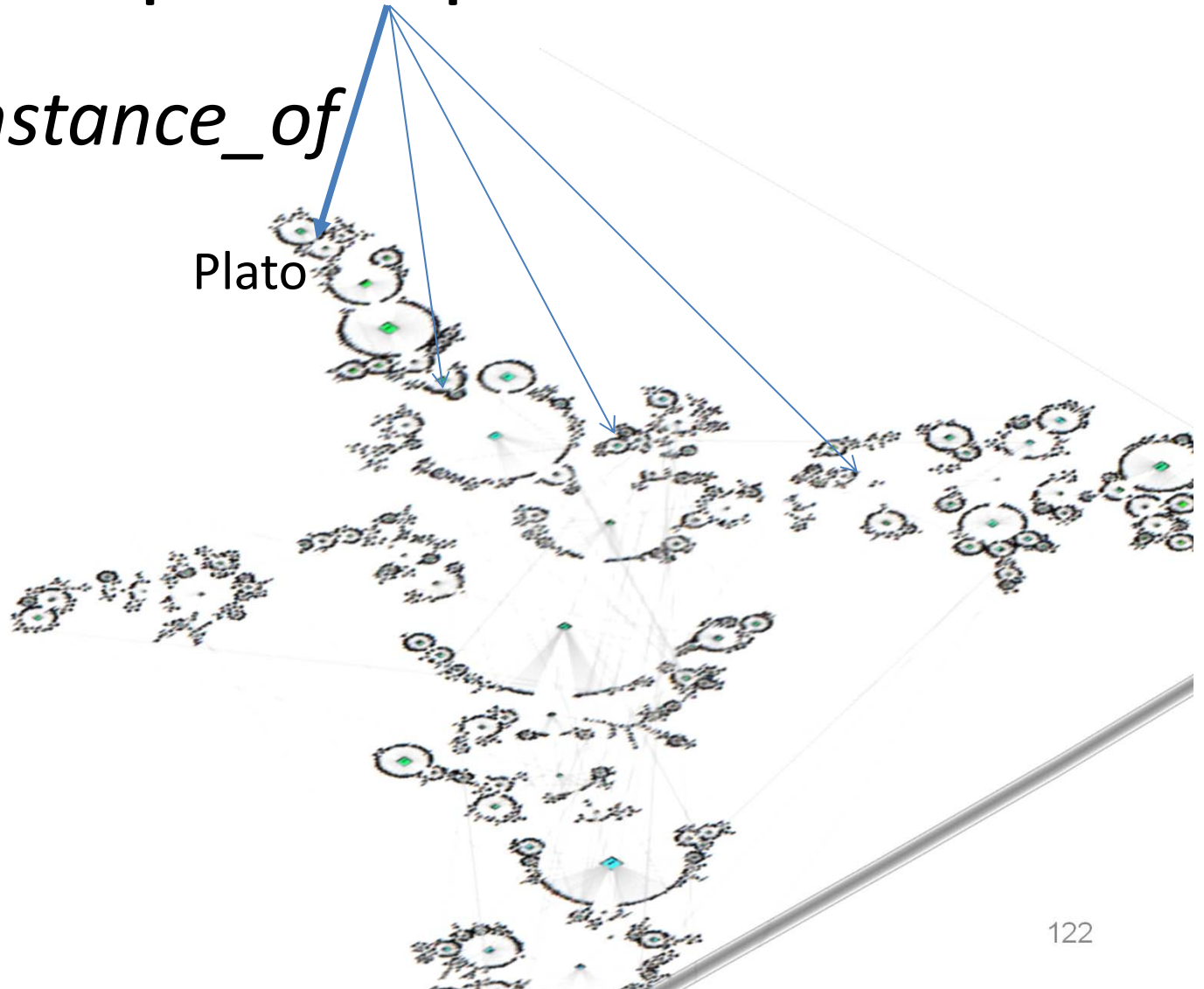


annotate the entire philosophy family tree with information like this

philosopher

instance_of

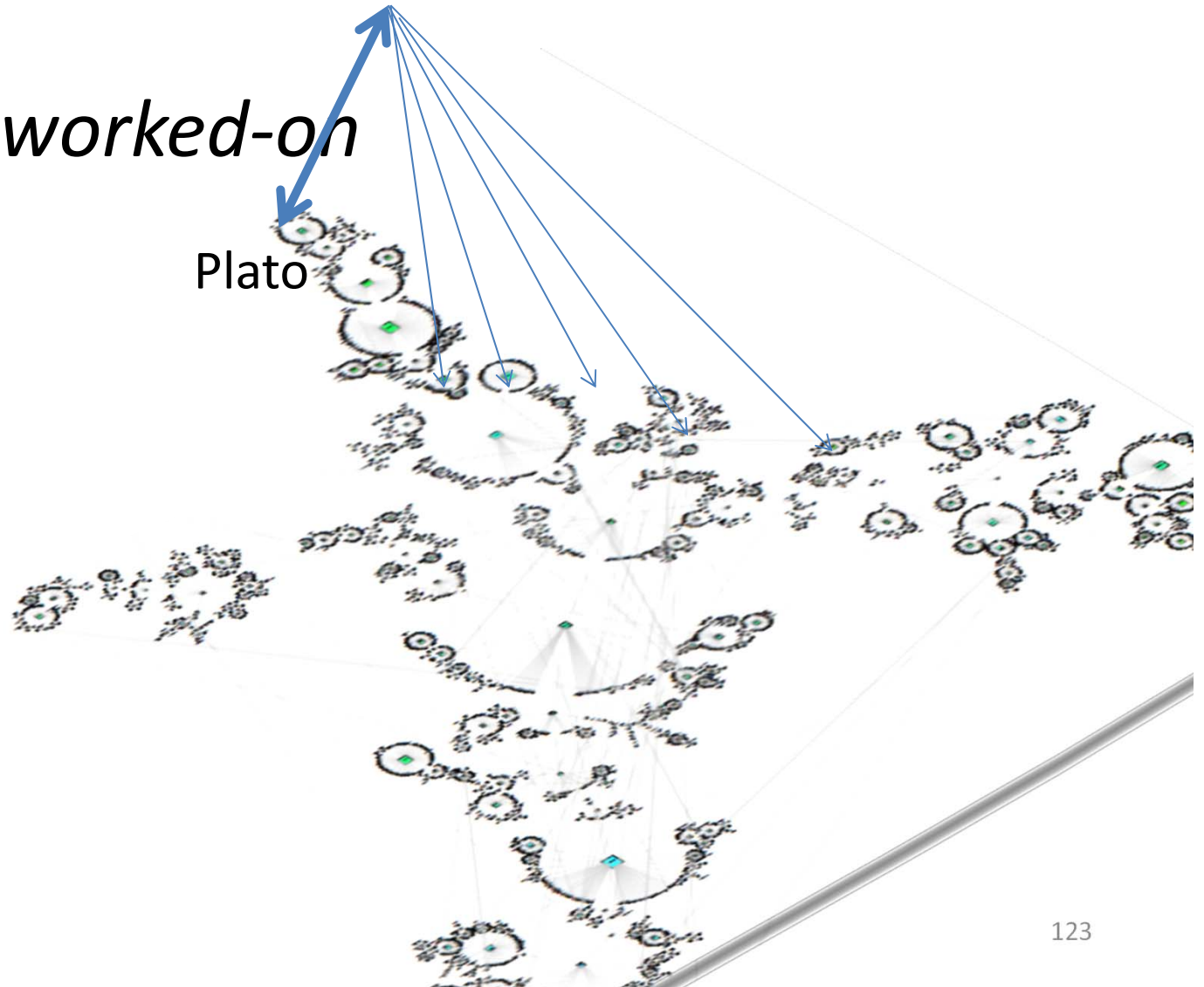
Plato



third man argument

worked-on

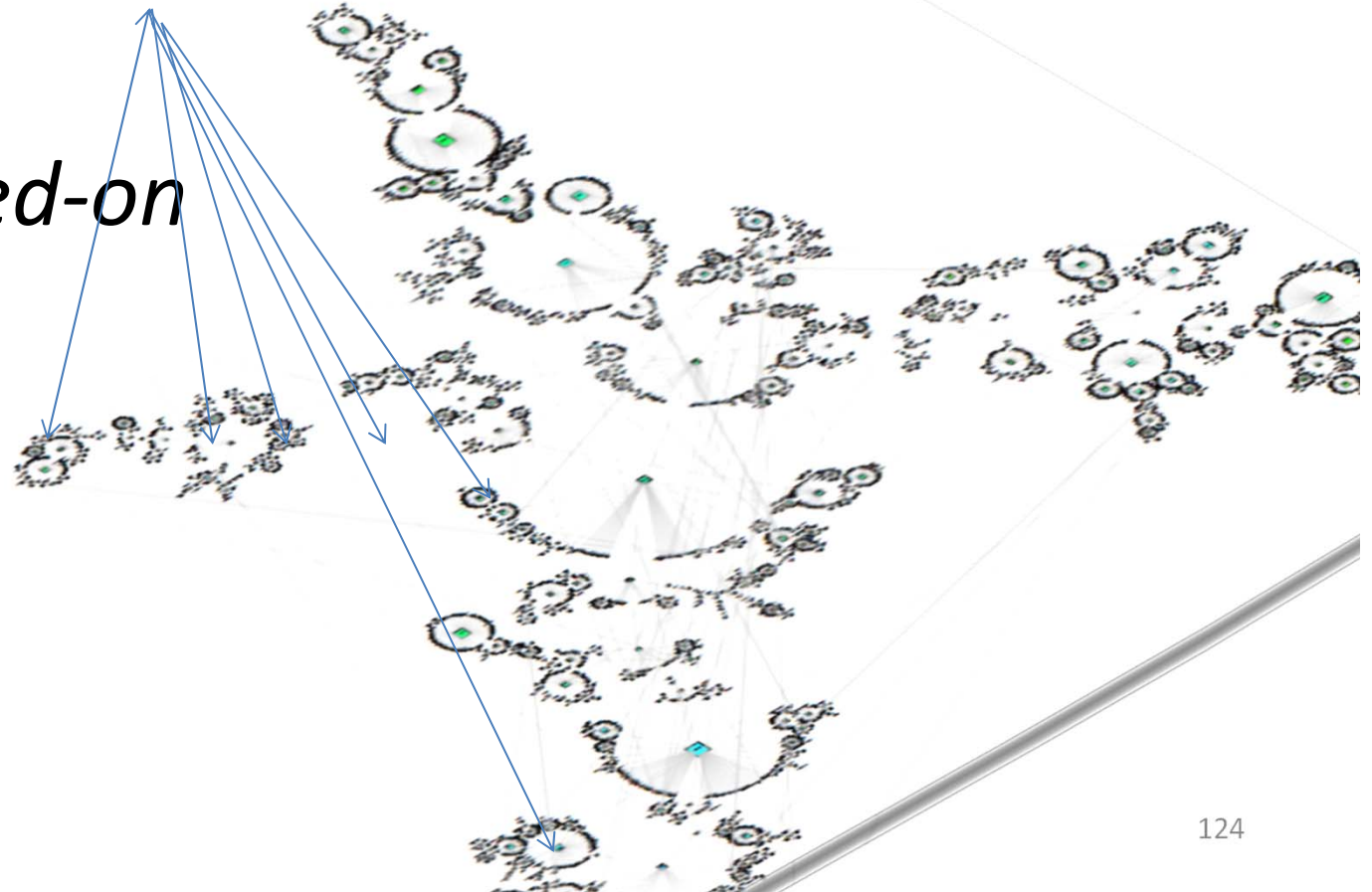
Plato



generate new family subtrees for each
philosophical concept

modal realism

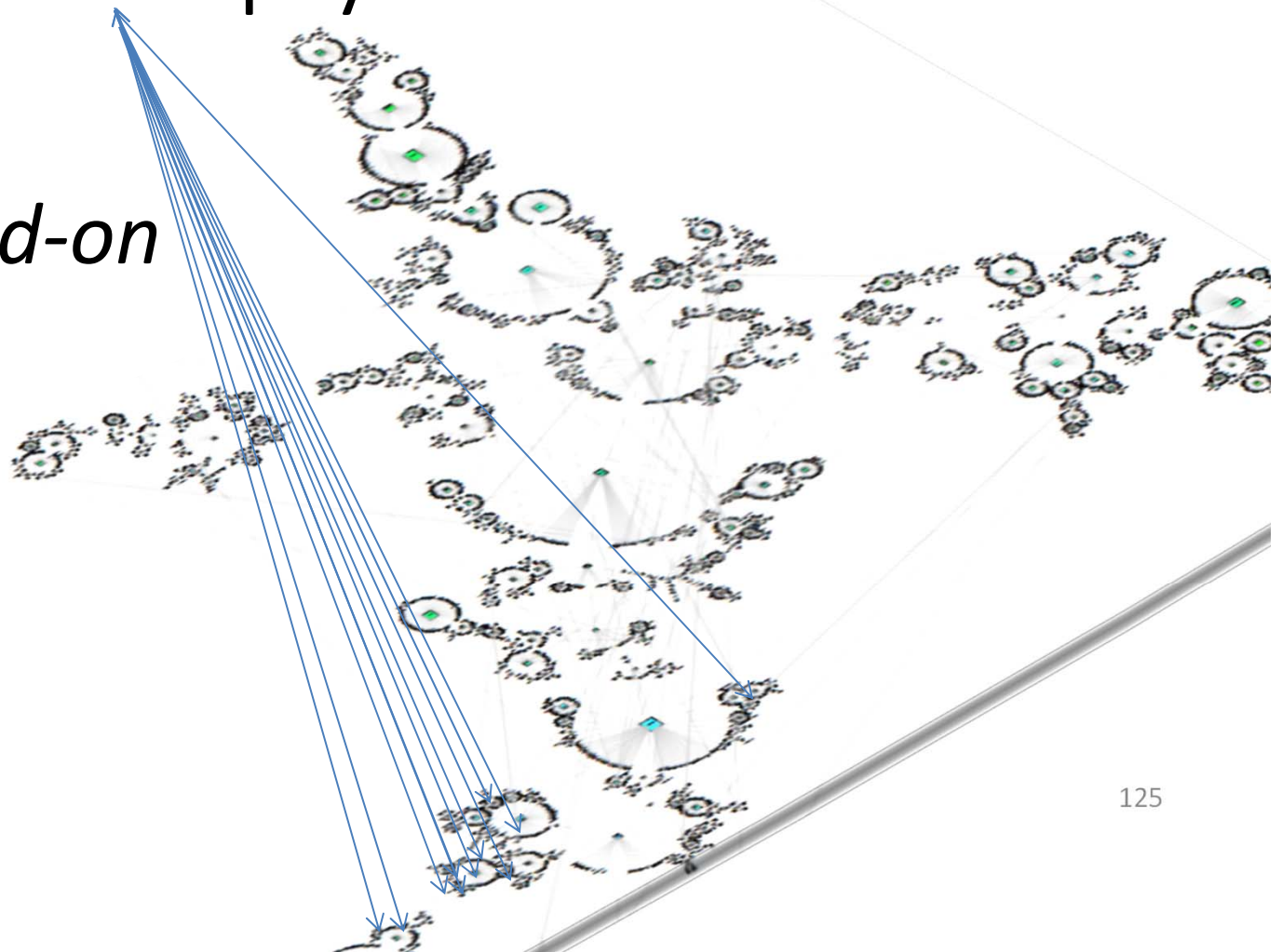
worked-on



for each philosophical field

feminist philosophy of science

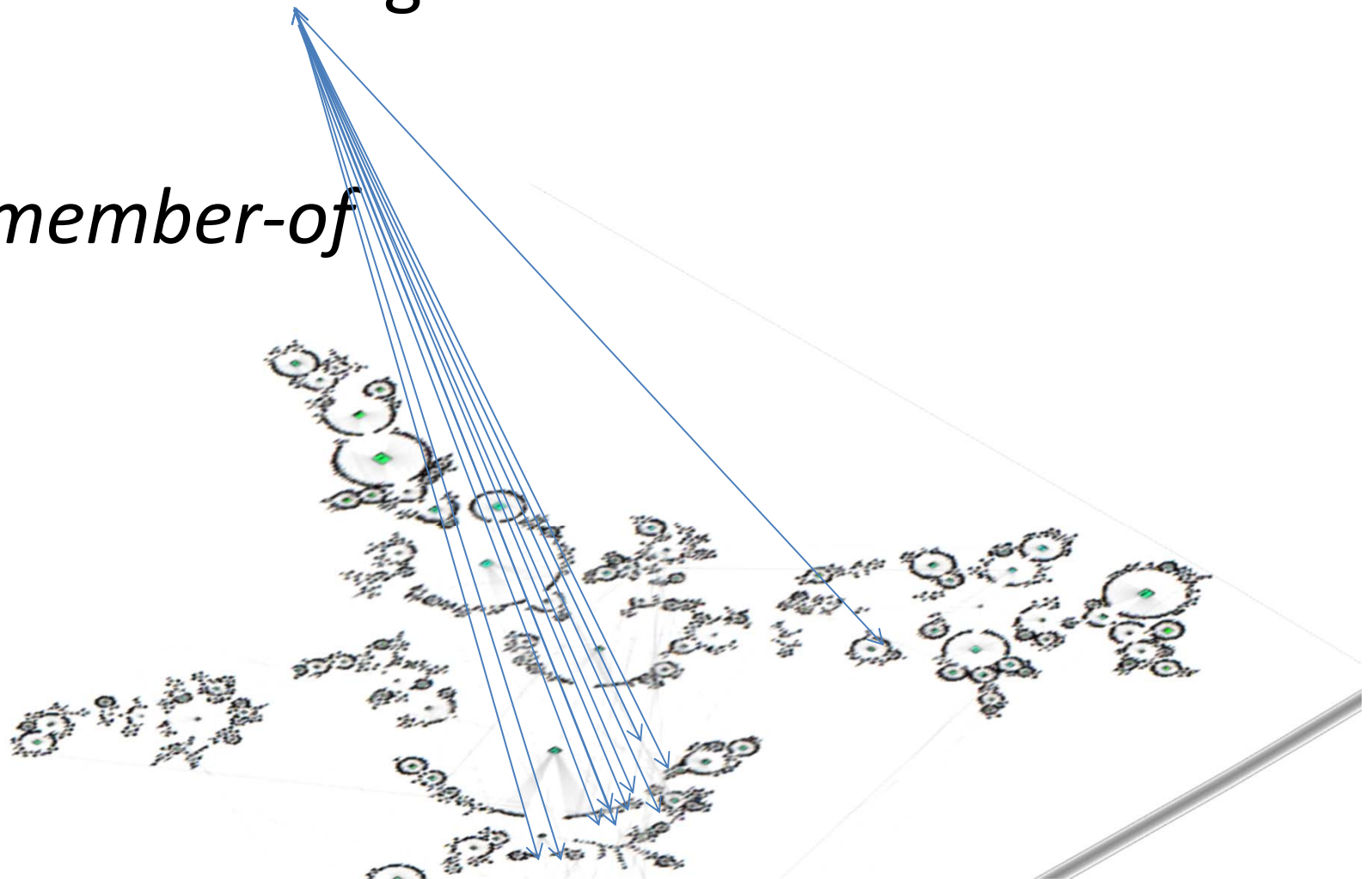
worked-on



for each philosophical group

Left Hegelians

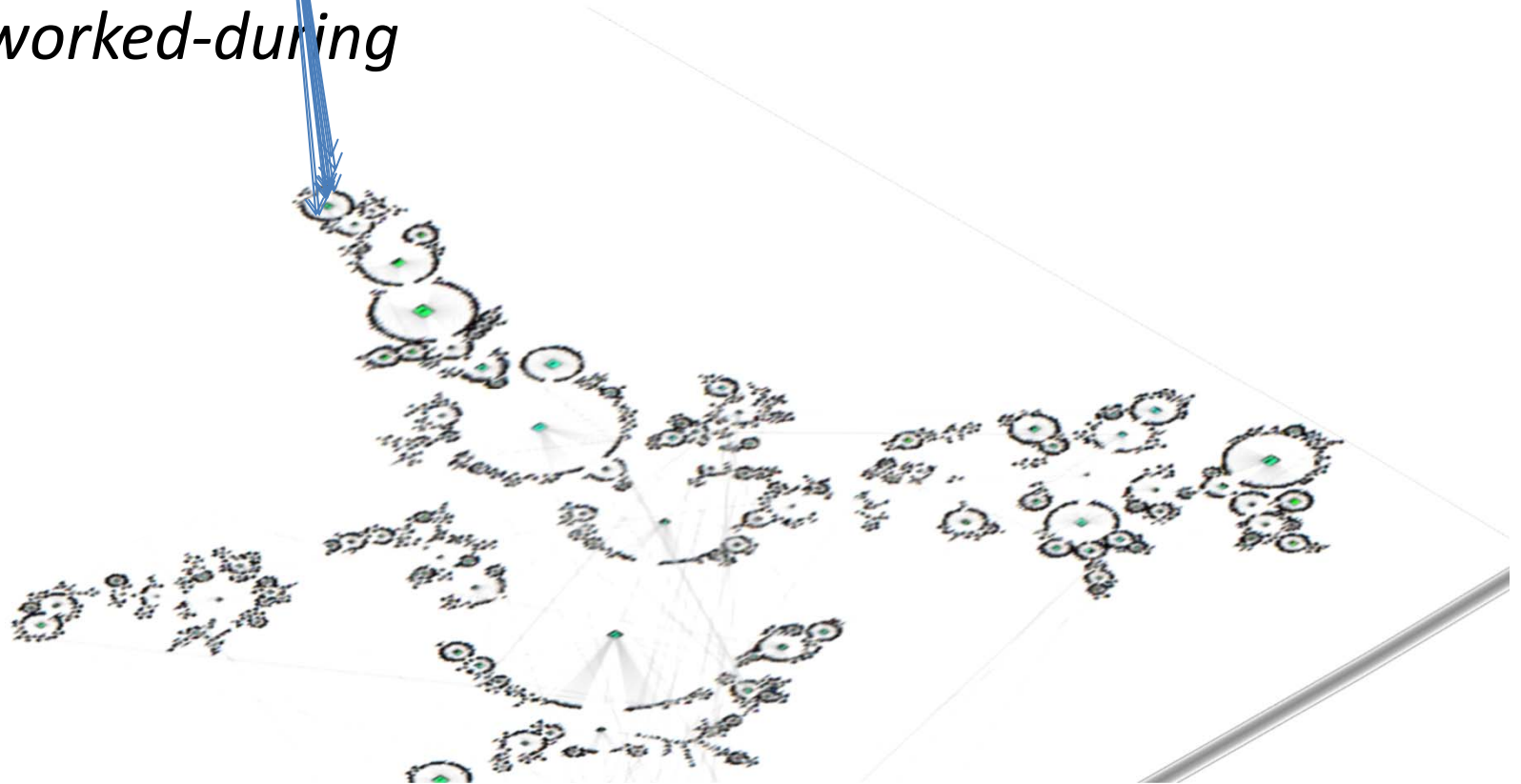
member-of



for each epoch

600-500 BCE

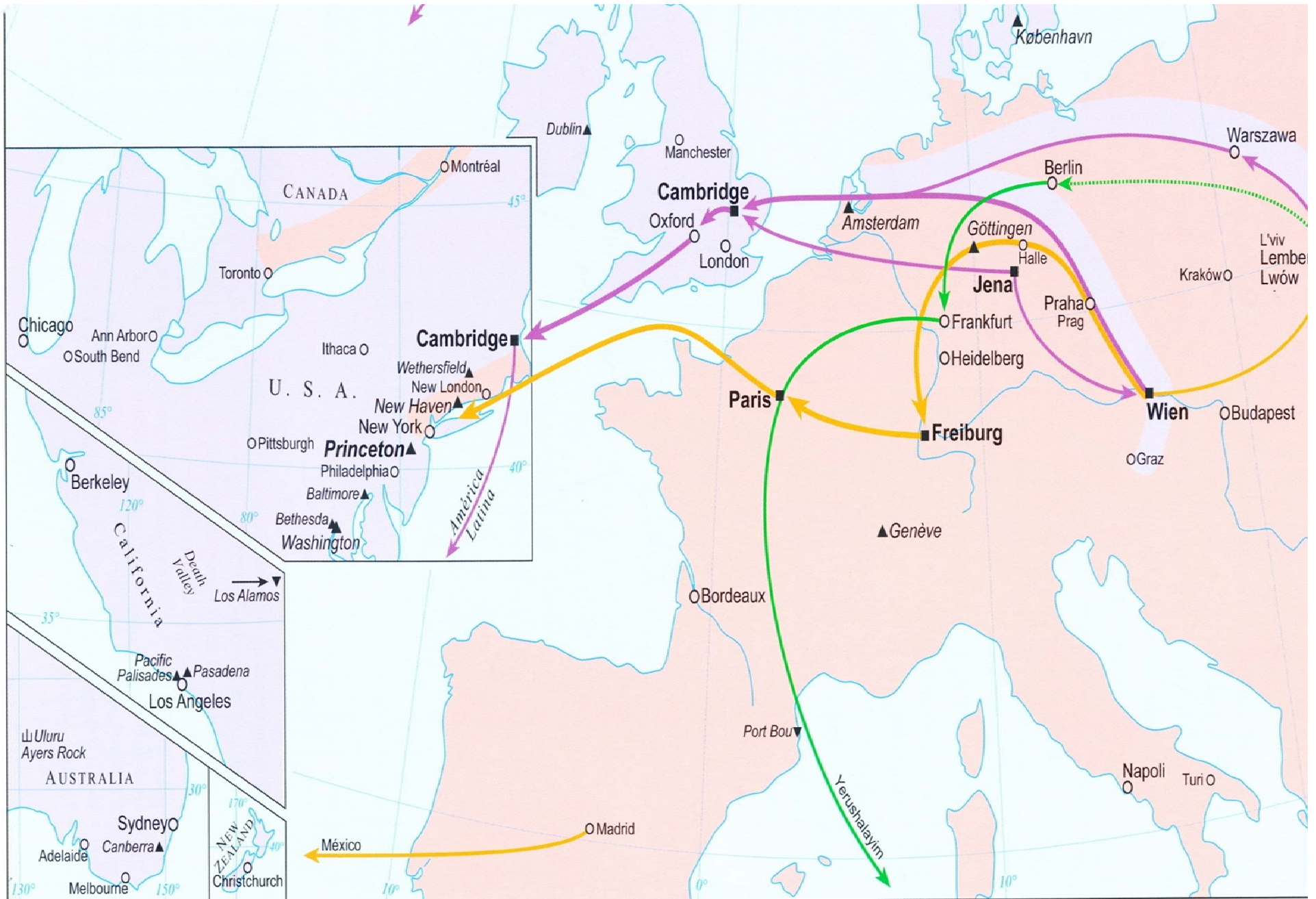
worked-during



Elmar Holenstein
PHILOSOPHIE-ATLAS
ORTE UND WEGE DES DENKENS

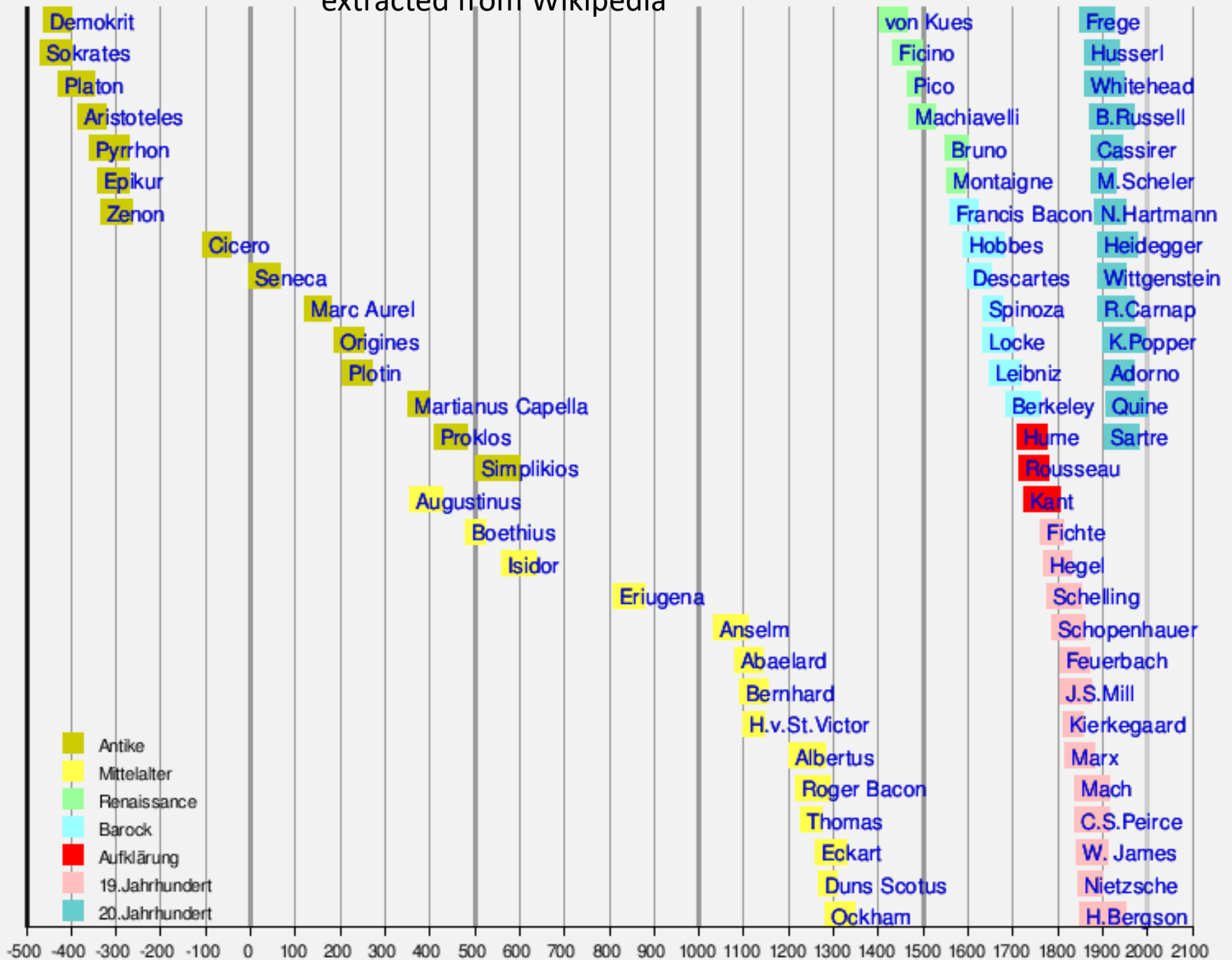
AMMANN VERLAG





Western Philosophy of the 20th Century

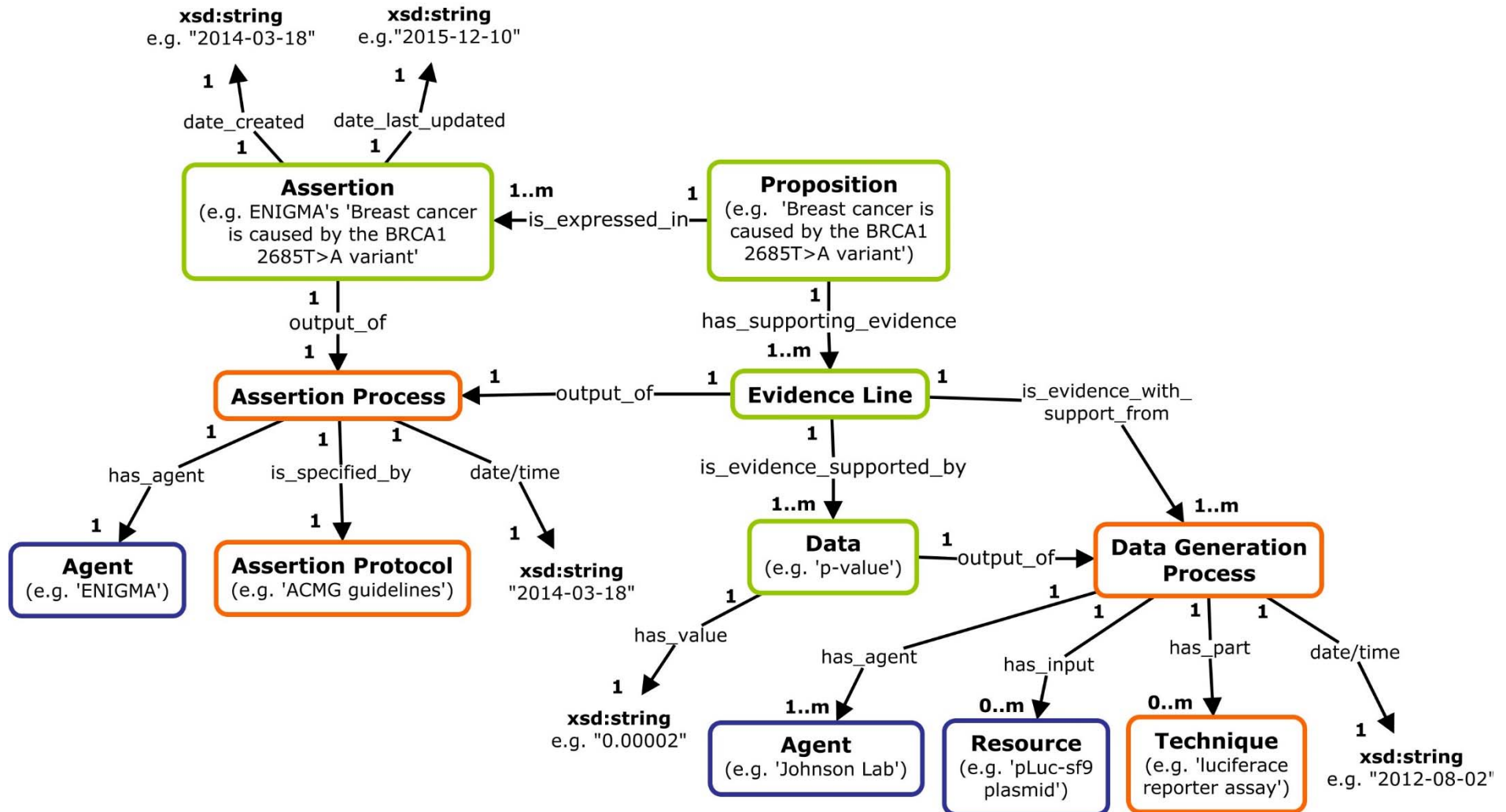
extracted from Wikipedia

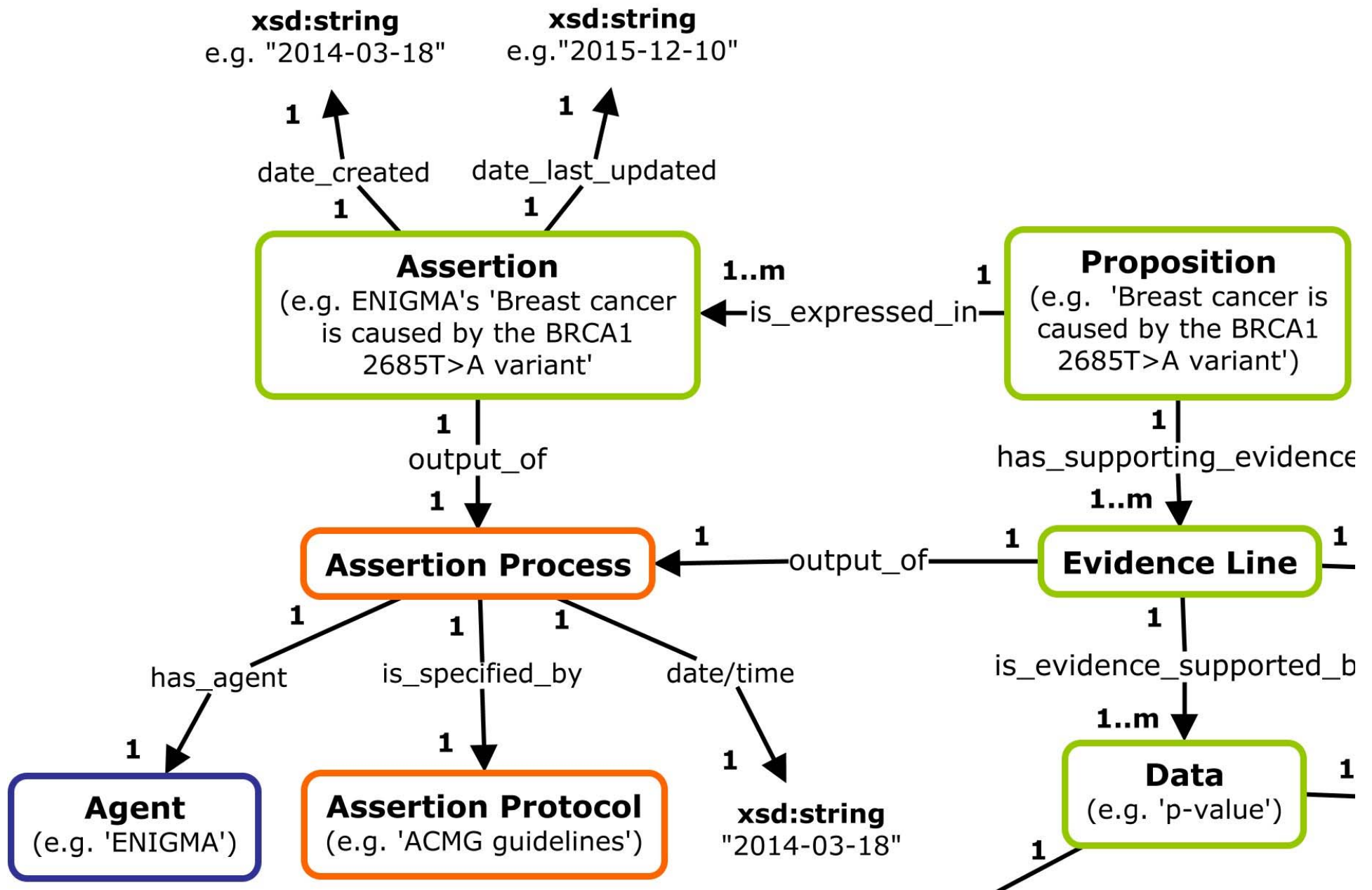


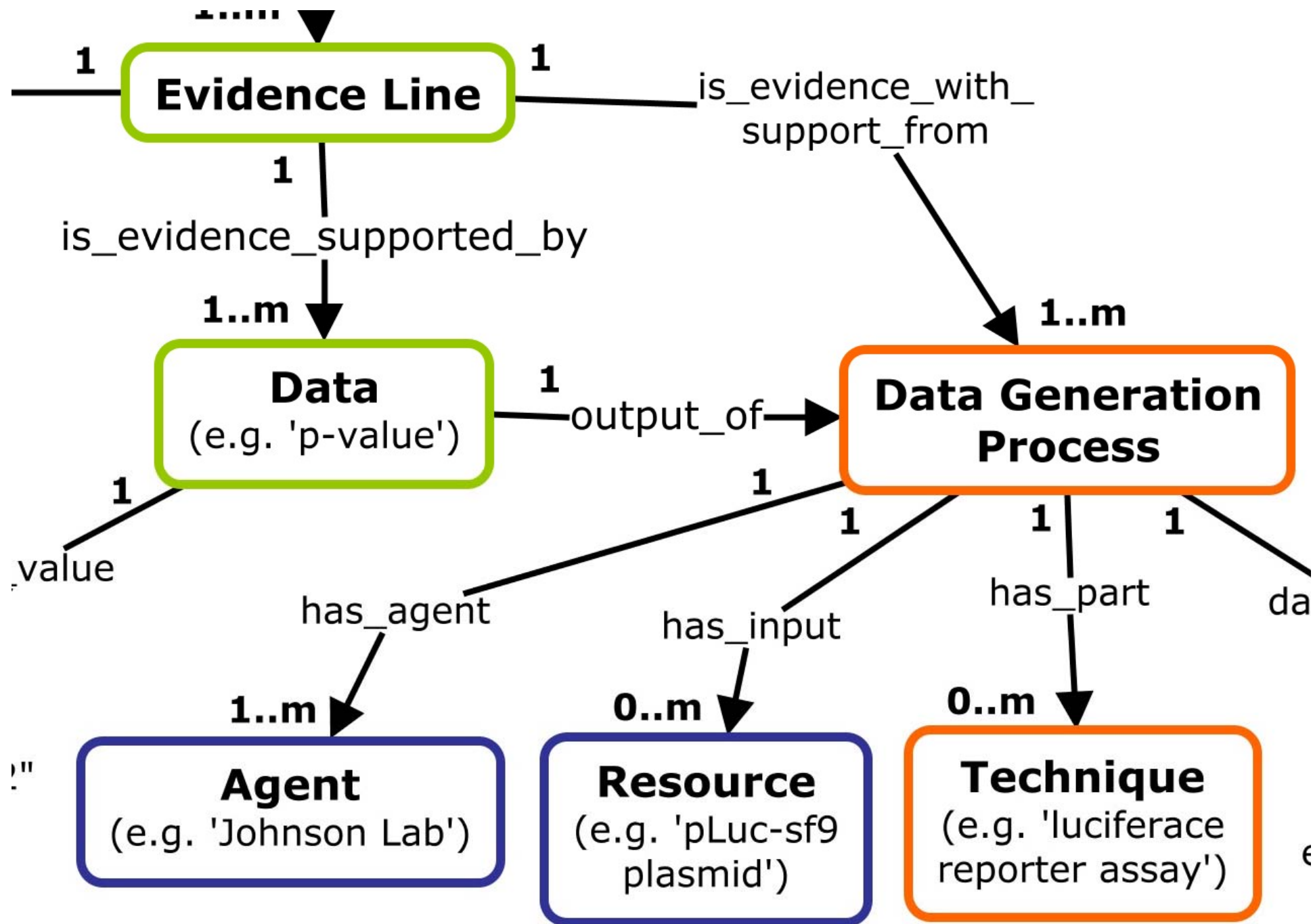
Put all of these together and we can automatically get answers to queries such as:

- give me all the articles published between 1980 and 1990 in which Gettier's paradox is discussed in connection with Goldman's Barn
- give me a list of all the philosophical arguments formulated by Christian philosophers living in Baghdad in the 10th century
- give me a sublist which lists only those arguments which were formulated for the first time by members of this group

Scientific Evidence and Provenance Information Ontology (SEPIO)







DARPA's Big Mechanism Program

Defense Advanced Research Projects Agency

