

Digital Technologies in Humanities

Milica Ševkušić

Institute of Technical Sciences of SASA



Application of Free Software and Open Hardware
Belgrade, 26 October, 2019

User guidelines



Think about:

- ▷ access
 - ▷ reuse
 - ▷ sustainability
- in the long term.

<p>triam contineat capli breuioris. v. u p' tiam p'c usi i fine cali p'cedat.</p>	<p>Z. A. Jer. i. a. do mine deus ecce uel. lo. viii. b. p'p'he dnt est. Ex. iiii. d. dne deus anima ma no est. xxi. a. domine deus. Joel. i. c. diei.</p>	<p>i. p. viii. b. i. p. xviii. c. Ps. xvi.</p>	<p>Abditus. abscondunt te israhel. i. ab. cubicloy in abditis. caelis leonit hi. i. ab d.</p>	<p>ysa. v. f. xxi. a. viii. a.</p>	<p>lapiam qui abiecit te ruit ei legem dñi. ciet homo ydola. icet p'p'ls iste a aquas. si abiecit miser. at offensiones odoy. et eos dnt deus meus. Int legem domini. hic uestimentum suum. am q' opa teneb'z.</p>		
<p>Evo. iii. d. vii. a. viii. d. xxiii. d. xxviii. d. lbi. xxix. a. xxxiii. d. Leii. iii. a. lbi. vii. d. viii. d. Liii. iii. g.</p>	<p>Aaron. egredietur iocsum. ent p'p'ha tuis. tur sustentabat man. h'et aaron tur uob'c. applica ad te aaron. veste scam aar' fil. t. z filios applicab ad off. z filii israhel comutam. deset ad fil aar' sac. reliqui erit aar' z fil. p'cuscim et aar' z fil. optulit aaron z fil. et. dab' p'auiam aaron.</p>	<p>Jud. ii. d. Ps. xxvii. Act. ix. f. Heb. xii. b</p>	<p>Abduce. xit omis filios madian. qui abduxit nos. cant discipulos post se. doctum z ai nos. abduca.</p>	<p>Ex. xx. b. Os. ix. d. Am. ii. a. Ion. iii. c. Ro. xii. c.</p>	<p>Abductus. si abducti fuerit ad e'z. ta p'ipem opis. ti concup' postul. males cap. abduct' z. ti sunt quasi grex.</p> <p>Abducto. miltone ul' abductoe. he p'manet tristitia.</p>	<p>Leii. xxvi. b. i. p. viii. b. Job. xxxvii. Pu. iii. b. Eccl. iii. a. vi. c. ysa. xli. c. Gal. ii. d.</p>	<p>Abiciens. res. tes p' nom' meum. tes oem imundiam.</p> <p>Abiendi. tue abiendi.</p>
		<p>Pre. i. c. Sap. xiiii. vix. b. Rai. ii. b. Zach. xa. ii. c. d. viii. Eccl. xxviii.</p>	<p>Abdicare. canus ocul. de deoy.</p> <p>Abel pastor ouium. a sanguine abel iusti.</p>	<p>ysa. lxxvi. b. Jac. i. c. Eccl. iii. a.</p>			

Concordantiae Sacrorum Bibliorum, 13th century

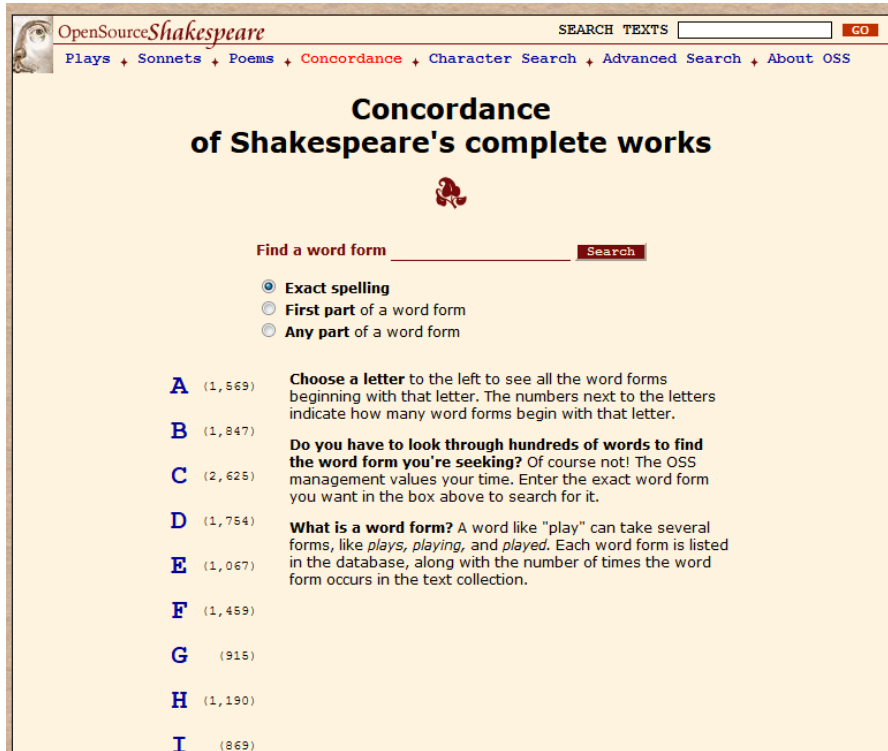
Translating into digital formats:
concordances, thesauri, text tagging

Index Thomisticus



- 1949 –1970s – The project designed by the Jesuit priest Roberto Busa and sponsored by IBM focused on the lemmatization and syntactic annotation of 118 texts by Thomas Aquinas
- 1970s – 56 volumes published
- 1989 - CD
- 2005 - website
<http://www.corpusthomisticum.org/>
- 2006 – *Index Thomisticus Treebank* project (syntactic annotation and subsequently semantic and pragmatic annotation)

Concordances




OpenSourceShakespeare

SEARCH TEXTS

Plays + Sonnets + Poems + **Concordance** + Character Search + Advanced Search + About OSS

Concordance of Shakespeare's complete works



Find a word form

- Exact spelling**
- First part** of a word form
- Any part** of a word form

A (1,569) **Choose a letter** to the left to see all the word forms beginning with that letter. The numbers next to the letters indicate how many word forms begin with that letter.

B (1,847) **Do you have to look through hundreds of words to find the word form you're seeking?** Of course not! The OSS management values your time. Enter the exact word form you want in the box above to search for it.

C (2,625)

D (1,754) **What is a word form?** A word like "play" can take several forms, like *plays*, *playing*, and *played*. Each word form is listed in the database, along with the number of times the word form occurs in the text collection.

E (1,067)

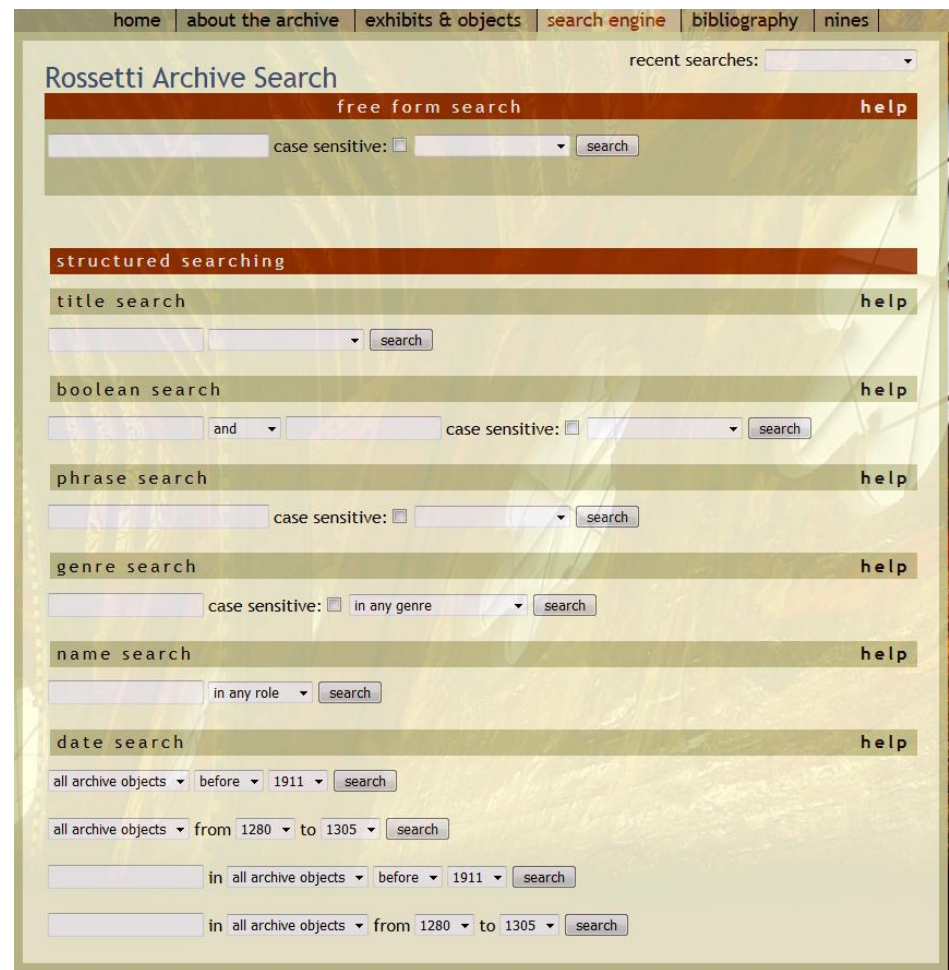
F (1,459)

G (915)

H (1,190)

I (869)

<http://www.opensourceshakespeare.org/concordance/>



home | about the archive | exhibits & objects | search engine | bibliography | nines

recent searches:

Rossetti Archive Search

free form search

case sensitive:

structured searching

title search

boolean search

and case sensitive:

phrase search

case sensitive:

genre search

case sensitive: in any genre

name search

in any role

date search

all archive objects before 1911

all archive objects from 1280 to 1305

in all archive objects before 1911

in all archive objects from 1280 to 1305

<http://www.rossettiarchive.org>

Text tagging/annotating/encoding

- Adding tags/annotation to unstructured data (text) to enable data analysis and/or achieve machine readability.
 - Manual
 - Automatic (machine learning, natural language processing, artificial intelligence, etc.)
- TEI: Text Encoding Initiative



627656201_MS0028_...

627656201_MS0028_0005.jpg

0 Annotations · No Other Contributors

TOOLS: MOVE RECTANGLE IMAGE LAYERS OVERLAY COLOUR HELP

r ur intencabat man.
 hcat aaron r ur uobc.
 applica ad te aaron.
 vestit scdm aarō fil. r
 r filios applicab ad off.
 r filii isrl' conmutam.
 defet ad fil' aarō sac.
 reliquū erit aarō r fil.
 p'cuscim et aarō r fil.
 optulit aaron r fil. et
 dab p'cuniam aaron.
 filii aaron deponet uel.
 offer aaron leuitas.
 quid r aarō ū immu.
 teneat thibulum.
 pgar ad p'p'los suos.
 adu'sus aarō uel. uat.
 r filii ei' adolebant.
 sepac ut m'itiet.

xix. b. ti concip postul.
 mael cap. abduct.
 ti sunt quasi grex.
Abductō.
 mltōne ul' abductōe.
 ne pmanet tristitia.
Abdicare.
 canuus oct. deditoy.

Job. xxxv.
 Pū. iii. b.
 Eccl. iii. a.
 vi. c.
 ysa. xli. c.
 Gal. ii. d.

dnt potentes nō abicte.
 disca. dñi ne abicias.
 rogōm t'ribul. ne abi.
 ne abicias consiliū me.
 elegite r nō abieca te.
 nō abito grām di.
Abiciens. tes.
 tes p' nom' meum.
 tes oēm imundiam.
Abiendi.
 tpe abiendi.
Abiectus.
 clipeus fortunū.
 ne peat qui abfens.
 eē in domo di mei.
 ti sunt de c'ra sua.
 cū abiecta sūt glif.
 abatoz abiectam.
 q' abiectus rediunt.

Ge. iii. a.
 ch. xiiii. d.
 Luc. xi. g.
 Heb. xi. a.
 xii. f.

Ge. xliiii.
 Jos. xxii. f.
 xxiii. d.
 i. b. xii. d.

sic a nob h' scelus.
 sic a nob ut relinq. d.
 sic ut celsam orare.

ysa. xxvii. b.
 liii. b.
 Ge. xxiii. a.

Transcribe...

Place

Person

Event

Add a comment...

Add tag...

Cancel

OK & Next

OK

Iconclass: classification system for art and iconography



- 1950s - developed by Henri van de Waal, Professor of Art History at the University of Leiden
- 1973-1985 – published by the Royal Netherlands Academy of Arts and Sciences (KNAW)
- 1990–2001 – computerized version

0 Abstract, Non-representational Art

1 Religion and Magic

2 Nature

3 Human Being, Man in General

33 relations between individual persons

33A non-aggressive relationships

33A1 saluting

33A11 baring the head, lifting one's hat

friendliness · hat · head · human being · non-aggressive · relationship · saluting · uncovering

Used in Arkyves (<https://www.arkyves.org>) – paid access



[New Search](#)

[Previous Page](#)

[Help](#)

ID: 700002612

Page link: <http://vocab.getty.edu/page/cona/700002612>

Record Type: [Movable Work](#)

Images: 1

The Nativity (folio (leaf); Master of the Dresden Prayer Book (Flemish, active about 148...; about 1510 - 1520; J. Paul Getty Museum at the Getty Center (Los Angeles, Los A...; 83.ML.114.119v; Ms. Ludwig IX 18, fol. 119v)

Note:

Titles:

The Nativity ([preferred](#),[C,U,English-P,U,U](#))

The Nativity: Spinola Hours ([C,U,VL,English,U,U](#))

Catalog Level: item

Work Types:

[folio \(leaf\)](#) [300189604] ([preferred](#))

..... (Objects Facet, Components (hierarchy name), components (objects parts), <components by specific context>, information form components, gathered matter components, leaves (gathered matter))

Classifications:

[manuscripts](#) ([preferred](#))

Creation Date: about 1510 - 1520

Creator Display:

Master of the Dresden Prayer Book (Flemish, active about 1480 - 1515) (Flemish Illuminator) [[preferred](#),[JPGM](#)] illuminator [Master of the Dresden Prayerbook](#) (Netherlandish illuminator and engraver, active ca.1460-1520) [500018916]

Locations:

Current: [J. Paul Getty Museum at the Getty Center](#) (Los Angeles, Los Angeles county, California, United States) [500329598] J. Paul Getty Museum, J. Paul Getty Trust, Corporate Bodies (Corp. Body)

Repository Numbers: 83.ML.114.119v; Ms. Ludwig IX 18, fol. 119v

Other: Creation: [Brugge](#) [7007867] West-Vlaanderen (province), Flanders (region (administrative division)), Belgium (nation), Europe (continent), World (facet) (Geographic)

Other: Creation: [Gent](#) [7007887] East Flanders (province), Flanders (region (administrative division)), Belgium (nation), Europe (continent), World (facet) (Geographic)

Other: Former: [Deutschland](#) [7000084] Europe (continent), World (facet) (Geographic)

Display Materials: Tempera colors, gold, and ink on parchment

[tempera](#) [300015062]

.....(Materials Facet, Materials (hierarchy name), materials (substances), <materials by function>, coating (material), <coating by form>, paint (coating), <paint by composition or origin>, water-base paint)

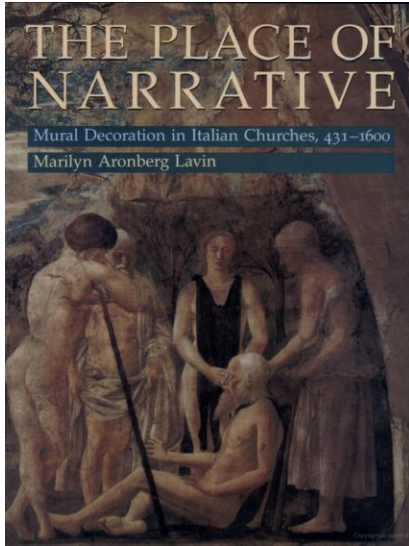
[gilt paint](#) [300343596]

.....(Materials Facet, Materials (hierarchy name), materials (substances), <materials by function>, coating (material), <coating by form>, paint (coating), <paint by composition or origin>, metallic paint)



Enabling quantification and calculation...and still translating

Databases and the study of iconography



- NARRART DATA
- SAS – Statistical Analysis System
- Lavin, M.A., 1989. Computers and Art History: Piero della Francesca and the Problem of Visual Order. *New Literary History* 20, 483–504.
<https://doi.org/10.2307/469112>
- Lavin, M.A., 1990. *The Place of Narrative: Mural Decoration in Italian Churches, 431-1600*. University of Chicago Press.

TBC SETH & MICHAEL OIL	
NARRATIVE MODE:	CONTINUOUS
LOCATED ON WALL:	RIGHT OF ALTAR
LOCATED ON TIER:	1
POSITION ON TIER:	CENTER OR 2NDPR LEFT
ARCHITECTURE:	NONE
LANDSCAPE:	MASSED TWD LPT
LIGHT FLOW:	COMING FROM LEFT
MAIN FIGURES:	NV TWD LPT
TBC ADAM DEAD PLANTING BRANC	
NARRATIVE MODE:	CONTINUOUS
LOCATED ON WALL:	RIGHT OF ALTAR
LOCATED ON TIER:	1
POSITION ON TIER:	CENTER OR 2NDPR LEFT
ARCHITECTURE:	NONE
LANDSCAPE:	MASSED TWD BGT
LIGHT FLOW:	COMING FROM LEFT
MAIN FIGURES:	NV TWD BGT
TBC SHEBA VENERATES WOOD	
NARRATIVE MODE:	CONTINUOUS
LOCATED ON WALL:	RIGHT OF ALTAR
LOCATED ON TIER:	2
POSITION ON TIER:	ON LEFT OR 11THPR LEFT
ARCHITECTURE:	NONE
LANDSCAPE:	MASSED TWD BGT
LIGHT FLOW:	COMING FROM LEFT
MAIN FIGURES:	NV TWD BGT

Quantitative methods in history and archaeology

- Advanced statistical and computational methods
- Standard and customized statistical packages, both commercial (SPSS, <http://tfqa.com/programs.htm>) and open-source (<https://doi.org/10.31235/osf.io/4nkxv>)

Lemercier, Claire, Claire Zalc, and Arthur Goldhammer. 2019. *Quantitative Methods in the Humanities: An Introduction*. Charlottesville: University of Virginia Press.

Automatic image processing...still translating

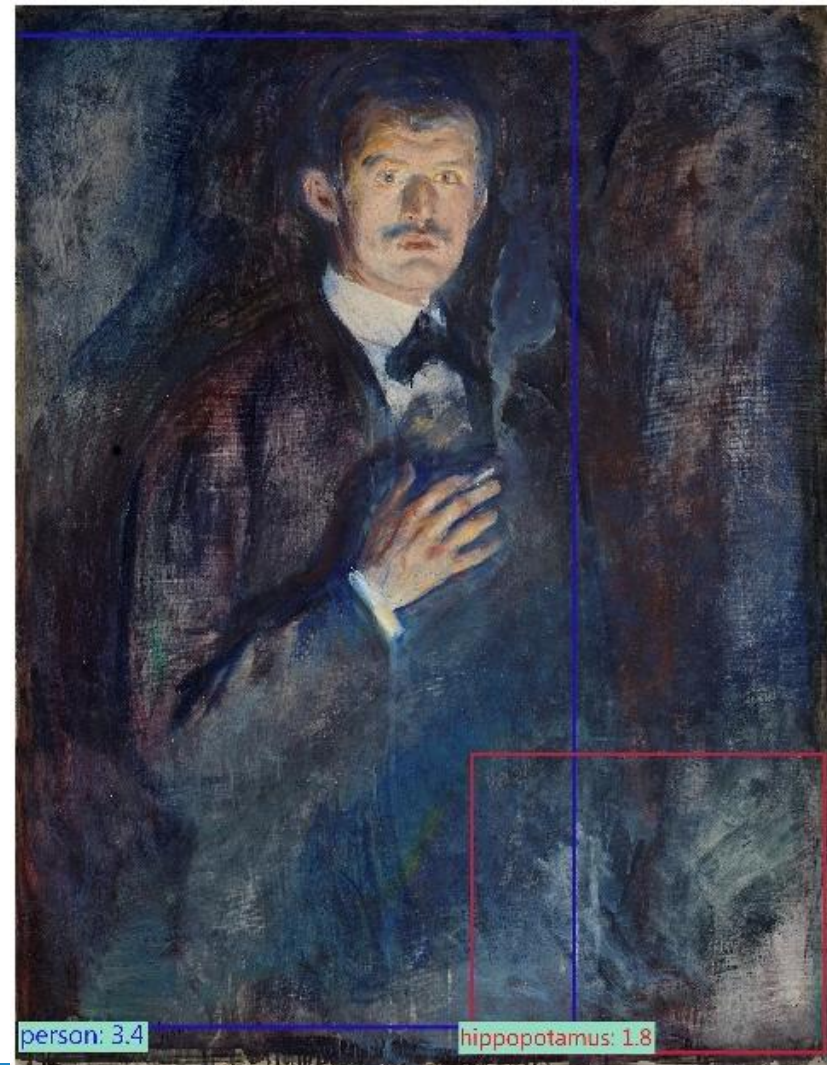
Identifying similarities (objects, themes or styles) in images relying on a database containing a large number of images. Examples:

- [Computer Vision research group, Heidelberg](#) (Lang, S., Ommer, B., 2018. Attesting similarity: Supporting the organization and study of art image collections with computer vision. Digital Scholarship Humanities 33, 845–856. <https://doi.org/10.1093/llc/fqy006>) – open source software: <https://hciweb.iwr.uni-heidelberg.de/hci/software>
- [Pandora](#) (Florea, C., Condorovici, R., Vertan, C., Boia, R., Florea, L., Vranceanu, R., 2016. Pandora: Description of a Painting Database for Art Movement Recognition with Baselines and Perspectives. [arXiv:1602.08855](https://arxiv.org/abs/1602.08855) [cs]) – MatLab + a free image database

Artificial intelligence

- Project *Principal Components* by National museum of Art, Architecture and Design in Oslo
- teaching algorithms to produce reusable classifications
- [ImageNet, written in Caffe](#) (free license)
- limitations: the reliability of results depends on the size and quality of the underlying image database

<https://iconclassblog.com/2017/06/12/iconclass-and-ai>



Full Wikiart Collection

The full collection of artworks we retrieved from [WikiArt](#) has 117,083 paintings and drawings. We compute $k \in \{64, 256\}$ archetypes.

Contents

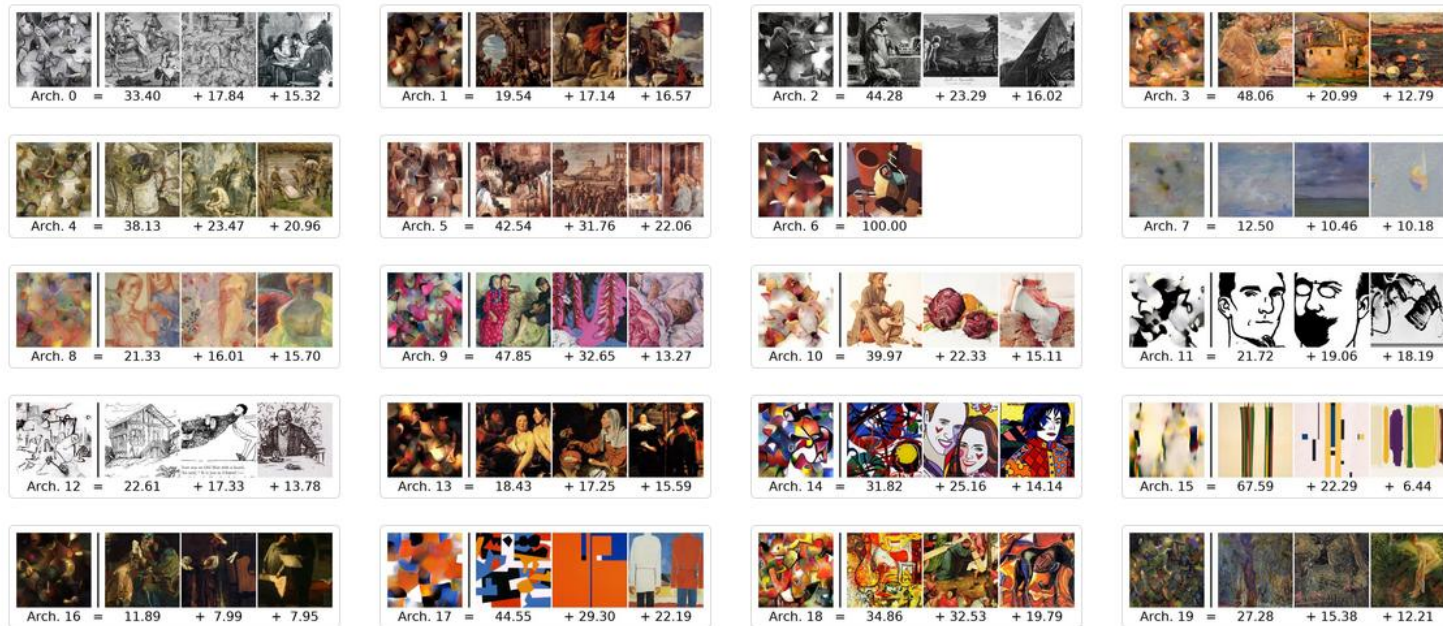
- [Archetype Visualizations](#)
- [Style Enhancement](#)
- [Image Decompositions](#)

http://pascal.inrialpes.fr/data2/archetypal_style/tpami/wikiart/

Archetype Visualizations

The visualization of the archetypes for $k = 256$ can be found in a separate [gallery](#). They illustrate quite nicely the impact of the choice of k on the quality of the analysis.

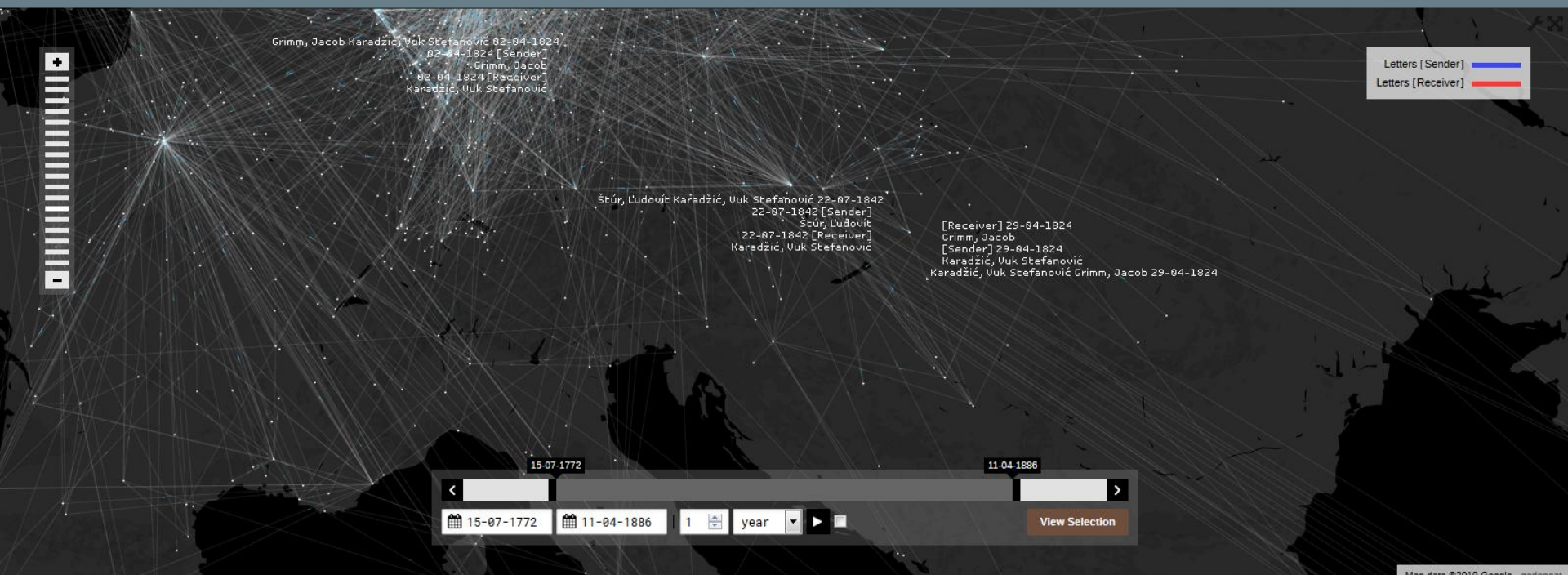
Below, we present the results for $k = 64$.



Production:
data-based visualizations and virtual reconstructions



Geographic Network (41 116 Objects) Start Over ↺



<http://ernie.uva.nl/viewer.p/21/59/scenario/75/geo>

- Interactive and multimedia content
- 3D reconstructions and virtual tours
- Virtual reality
- Augmented reality
- Many web-based tools
- Useful in education
- Mostly individual projects
- Disputable discoverability and interoperability

<https://subjectguides.lib.neu.edu/c.php?g=441483&p=3014074>

Content production and dissemination: repositories and publishing platforms

Open-source repository software

- Dspace (<https://duraspace.org/dspace/>) – since 2002
- Omeka (<https://omeka.org/>) – since 2008
- Islandora (<https://islandora.ca/>) – growing since 2013
- ...

Abbey Chapel, Galway City, County Galway - Carved Panel

File(s)

<http://www.tara.tcd.ie/jspui/bitstream/2262/14547/1/ertk1026.jpg>
(image/jpeg)

Collection

[The Edwin Rae Collection](#)

Tags

[Architectural](#), [Blessed Virg](#), [County Galway](#), [Decoration and ornament](#), [figure sculpture](#), [Galway, Galway \(Ireland: County\)](#), [Inscriptions, Ireland, Latin](#), [Mary, Paul, Saint, Saints](#), [St. Anthony, St. Bartholomew, St. Clara, St. Dominic, St. Francis, St. Matthew, St. Michael, St. Peter, St. Philip, St. Simon](#), [Stone Carving](#), [wild atlantic way](#)

Citation

"Abbey Chapel, Galway

Click the image to launch gallery view



AT ABBEY CHAPEL, GALWAY, 5044.W.L.

- Developed by Roy Rosenzweig Center for History and New Media at George Mason University
- PHP
- LAMP
- GPL
- OAI-PMH

Carved Panel," *Gothic Past*, accessed October 25, 2019, <http://www.gothicpast.com/items/show/3882>.

Title

Abbey Chapel, Galway City, County Galway - Carved Panel

Location

Galway, County Galway, Ireland

Description

At Abbey Chapel, Galway (5044.W.L.) (multiple images on file)

Subject

Galway (Ireland: County), Decoration and ornament, Architectural, Figure sculpture, Stone carving, Inscriptions, Latin, Saints, Mary, Blessed Virg, Saint, Paul, St. Clara, St. Anthony, St. Bartholomew, St. Matthew, St. Philip, St. Peter, St. Simon, St. Francis, St. Michael, St. Dominic

Type

Image

Artist / Creator / Agent, etc.

Rae, Edwin

Contributor's Role

Collector

TARA (Trinity's Access to Research Archive) URI

<http://hdl.handle.net/2262/14547>

Resources

<http://www.librarything.com/profile/TRIARC>

Sponsor

Irish Research Council for Arts, Humanities & Social Sciences (IRCHSS), The Heritage Council of Ireland

Publisher

Trinity College Dublin

Rights

This item is protected by original copyright

Rights Holder

The Board of Trinity College Dublin

Access Rights

Open-source publishing platforms

- Open Journal Systems, Open Monograph Press, Open Conference Systems by Public Knowledge Project (<https://pkp.sfu.ca/>)
- Lodel (<http://www.lodel.org/>)
- Janeway (<https://janeway.systems/>)
- ...

W Maxwell, J., Hanson, E., Desai, L., Tiampo, C., O'Donnell, K., Ketheeswaran, A., Sun, M., Walter, E., Michelle, E., 2019. Mind the Gap: A Landscape Analysis of Open Source Publishing Tools and Platforms. MIT Press.

<https://doi.org/10.21428/6bc8b38c.2e2f6c3f>



Home / Archives / Vol 30 No 3 (2019): Filozofija i društvo / Philosophy and Society /
TECHNIK – POLITIK – GESELLSCHAFT

Role Concepts of Technology Assessment between Postulates of Neutrality and the Demand for Creating Impact

Armin Grunwald

Institute for Technology Assessment and Systems Analysis (ITAS), Karlsruhe
Institute of Technology (KIT), Karlsruhe

DOI: <https://doi.org/10.2298/FID1903327G>

Keywords: technology assessment, neutrality, impact, honest broker, issue advocate, transformation



[Make a Submission](#)

In Focus

• *Articles*

Hans Bernhard SCHMID
Collective Responsibilities of
Random Collections

Hauke
BRUNKHORST Democracy under
Siege: Democratic Solidarity
Between Global Crisis and

- written in PHP;
- plug-in architecture;
- MariaDB (née MySQL) or PostgreSQL database;
- can be hosted on a Unix-like or Windows web server
- OAI-PMH
- GPL V2 license
- Since 2001



Presses universitaires de Rennes

ACCUEIL
HISTOIRE
BRETAGNE
GÉOGRAPHIE SOCIALE
INTERFÉRENCES

HISTOIRE DE LA HAINE

Une passion funeste 1830-1930

Frédéric Chauvaud

Histoire

...

Je ne l'aime pas, je le déteste, je l'abhorre, je le hais, je voudrais le voir mort, j'exige que le souvenir même de son existence soit effacé à jamais... autant d'expressions et de pensées, longtemps enfouies, disant le rejet, l'appel à la vengeance et le rêve de destruction. Les discours et les gestes haineux prolifèrent aujourd'hui. Ils ont pour cible une conjointe, un voisin, un adversaire politique, un ministre, une communauté... Souvent appelée la passion funeste, la haine a toujours ex...

[→ Lire la suite](#)

RECHERCHER DANS LE LIVRE

OK

TABLE DES MATIÈRES

CITER

PARTAGER

AJOUTER À ORCID



Éditeur : Presses universitaires de Rennes

Collection : Histoire

Lieu d'édition : Rennes

Année d'édition : 2014

Publication sur OpenEdition Books : 11 juillet 2019

EAN (Édition imprimée) : 9782753533332

EAN électronique : 9782753559530

DOI : 10.4000/books.pur.49548

Nombre de pages : 336 p.

LIRE



ACCÈS OUVERT

MODÈLE

EPI

PDF DU

Lodel

- written in PHP;
- MariaDB/MySQL database;
- Nginx or Apache OAI-PMH
- GPL V2 license
- Used by [OpenEdition](#)
- Since 2000

...des femmes haïssables, immortel agissante, amie des clubs... c'est-à-dire des membres du Club des femmes présidé par Eugénie Niboyet⁵ aux femmes pacifistes de 1917, jugées pour « défaitisme » comme Hélène Brion, sans oublier, plus tardivement, les suffragettes réunies autour du journal *La femme nouvelle* décidées à frapper l'opinion publique. L'époque en invente successivement plusieurs visages : la mauvaise mère, la femme trop libre de mœurs, la femme émancipée, concurrençant les hommes sur leur terrain, l'avorteuse, « l'amazone », l'espionne, la pétroleuse et enfin la féministe, voire la suffragiste⁶. Chacune des figures haïssables demanderait un portrait complet, aussi seuls quelques aspects seront ici présentés, mais toutes sont, à des degrés divers, des formes de la misogynie⁷. Ces figures, en effet, ne constituent pas une simple juxtaposition. Ce qui les relie c'est bien, en fonction des périodes, une même aversion pour les femmes. Certaines figures suscitent une désapprobation morale largement partagée, à l'instar de la mauvaise mère ; d'autres, en revanche, nécessitent une argumentation et viennent de cercles éclairés qui peuvent prendre la plume pour développer leurs thèses. La misogynie vient en partie de la peur de perdre sa position et d'être remis en cause. Elle se construit et se renforce par de multiples biais : la famille, le groupe des pairs, la presse et le répertoire théâtral. Mais surtout la misogynie est présente partout. Elle justifie les différences sexuelles biologiques et leur donne une traduction sociale, elle présente enfin comme naturelle la domination masculine. Il importe de repérer différents niveaux et de montrer la gradation de la haine pour les femmes, de la plus acceptable à l'encontre des mauvaises mères à celle qui est presque unanimement désapprouvée et qui s'exerce contre des femmes isolées, prostituées, servantes de ferme, bonnes urbaines. Il convient également,

départementales qui en regorgent.

2. LUC BOLTANSKI, *L'Amour et la Justice comme compétences. Trois essais de sociologie de l'action*, Par (...)

3. SÉVERINE, *Gil Blas*, 12 juillet 1892.

4. Voir Joris-Karl HUYSMANS, *Marthe*, Paris, UGE, 1975 [1876], p. 140.

5. Édith THOMAS, *Les femmes de 1848*, Paris, PUF, coll. « Centenaire de la Révolution de 1848 », 1948, (...)

6. Voir l'ouvrage collectif dirigé par Christine BARD, *Un siècle d'antiféminisme*, Paris, Fayard, 1999, (...)

7. *Le Grand Dictionnaire universel* ne dit pratiquement rien à l'article misogynie. Quant à celui qu'on consa (...)



Janeway

- written in Python (3.4+)
- Django framework (1.11 LTS)
- OAI-PMH
- overlay journal system
- [Affero General Public License](#)
- Used by the [Open Library of Humanities](#)
- since 2017

Article

a common idiom ... call it a place

Abstract

Building on recent studies of the relationship between visual poetics and eco-poetics, this essay argues that language conceived of as systematic is an important consideration in the work of Thomas A. Clark. Beginning with readings of some of his meta-poetical work from the early 1970s, the essay suggests that the overt interest in poetic language as a system analogous to an ecosystem continues into Clark's later writing, though in a less overt, more ephemeralized manner. The essay explores ways in which Clark conceives of poetry as anti-entropic activity in a language system.

Authors

Tom Jones (St Andrews)

Download

[Download XML](#)

[Download PDF](#)

Dates

Submitted 2017-04-11

Accepted 2019-01-28

Sustainable future

Semantic web

- Data available on the Web under an open license (Open Data)
- Data available as machine-readable structured data
- Non-proprietary file formats
- Reliance on the World Wide Web Consortium (W3C) standards (RDF and SPARQL) to identify things
- Interlinked to provide context

Protege - <https://protege.stanford.edu/>

Open Refine - <http://openrefine.org/>

Web Karma - <https://github.com/usc-isi-i2/Web-Karma/wiki/Installation>

Blazegraph - <https://www.blazegraph.com/>

Also

- Open-source software
- Open and community-owned infrastructure
- Open data
- Interoperability
- Coordination
- Developing digital skills among humanities scholars

Questions?

biblioteka@itn.sanu.ac.rs