

European Summer School 2017

Text Mining with Canonical Text Services
Theory Session 9 – Interoperability



Federal Ministry
of Education
and Research



Text Data Sources

Local “private” Files

Document Archives (Online/Offline)

Sourcecode Repositories (Github,...)

Forums, Social Media

Everything that can store text

Selected Online Archives

RESEARCH CENTRE LANGUAGE
DEUTSCHES TEXTARCHIV (GERMAN TEXT ARCHIVE)



The German Text Archive (Deutsches Textarchiv, DTA) presents online a selection of key German-language works in various disciplines from the 17th to 19th centuries. The electronic full-texts are indexed linguistically and the search facilities tolerate a range of spelling variants.



The DTA presents German-language printed works from around 1650 to 1900 as full text and as digital facsimile. The selection of texts was made on the basis of lexicographical criteria and includes scientific or scholarly texts, texts from everyday life, and literary works. The digitalisation was made from the first edition of each work. Using the digital images of these editions, the text was first typed up manually twice ('double keying'). To represent the structure of the text, the electronic full-text was

momentan verboten | <SCRIPT>: 5 | <OBJECT>: 0

Einstellun

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SYNOPSIS

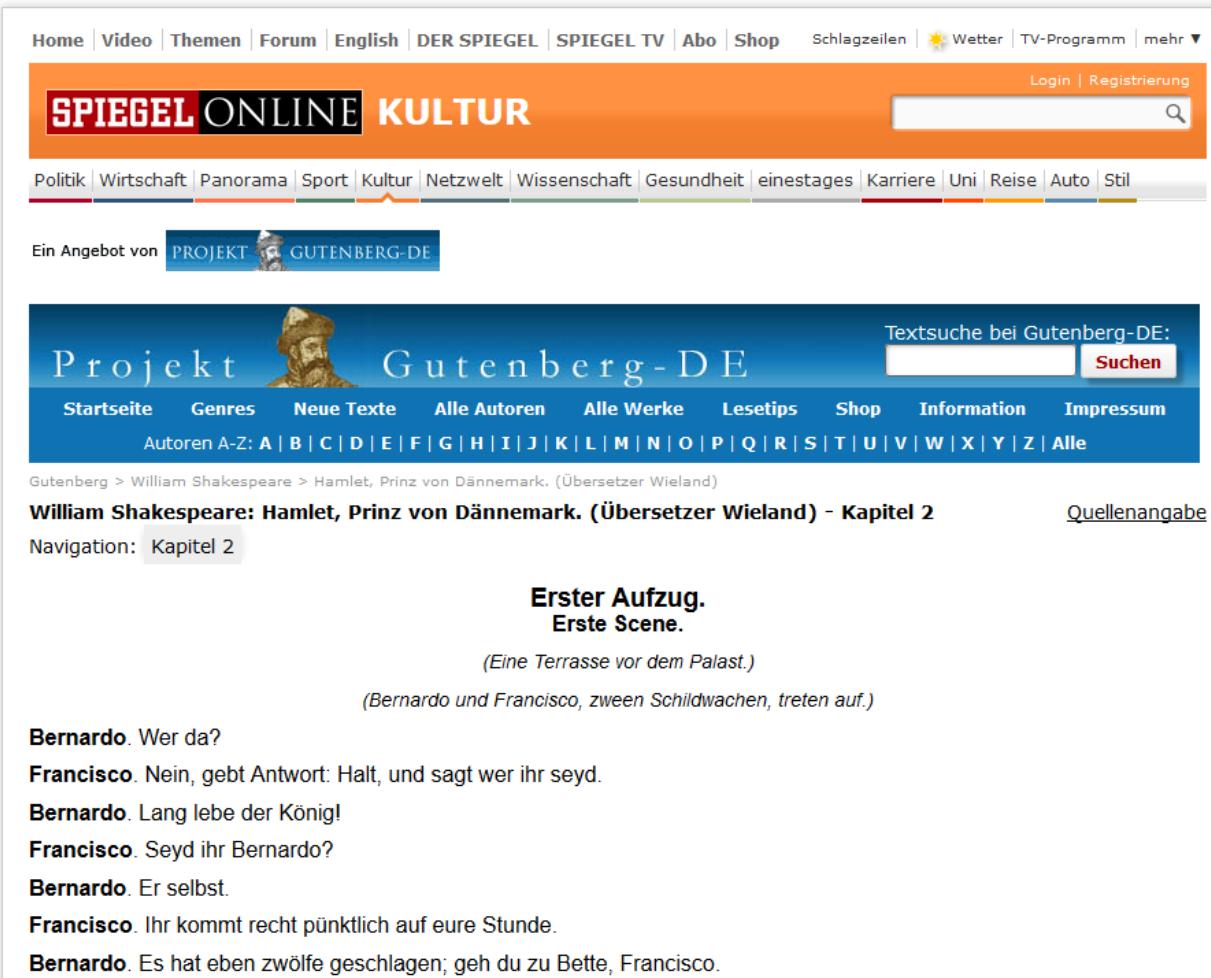
STAFF

RESEARCH PROJECT

<http://www.bbaw.de/en/research/dta>

- German Text Archive from BBAW
- Textfiles
- Key german works from 17th to 19th century
- Scientific/scholarly works, everyday life and literature
- Tokenization, Lemmatization, Structurization and POS-Tagging
- 1300 editions planned, >1000 already included
- Text structure standardised

Selected Online Archives



The screenshot shows the SPIEGEL ONLINE KULTUR homepage. At the top, there's a navigation bar with links to Home, Video, Themen, Forum, English, DER SPIEGEL, SPIEGEL TV, Abo, Shop, Schlagzeilen, Wetter, TV-Programm, and mehr. Below the navigation is a search bar and a login/register button. The main header "SPIEGEL ONLINE KULTUR" is displayed in a red and black box. Below the header is a horizontal menu with categories: Politik, Wirtschaft, Panorama, Sport, Kultur, Netzwelt, Wissenschaft, Gesundheit, einestages, Karriere, Uni, Reise, Auto, Stil. A banner below the menu reads "Ein Angebot von PROJEKT GUTENBERG-DE". The main content area features a blue header for "Projekt Gutenberg-DE" with a portrait of Johannes Gutenberg. It includes a search bar and links for Startseite, Genres, Neue Texte, Alle Autoren, Alle Werke, Lesetips, Shop, Information, Impressum, and a list of authors from A-Z. Below this is a breadcrumb trail: Gutenberg > William Shakespeare > Hamlet, Prinz von Dänemark. (Übersetzer Wieland). The main text is a scene from William Shakespeare's Hamlet, Act 1, Scene 1, with lines from Bernardo and Francisco. The text is presented in a clear, readable font with stage directions in parentheses.

<http://gutenberg.spiegel.de/>

- Growing Collection of German Literature without Copyright restrictions
- >5000 Documents from >1100 Authors
- Community based proof reading www.gaga.net
- Text structure very flexible

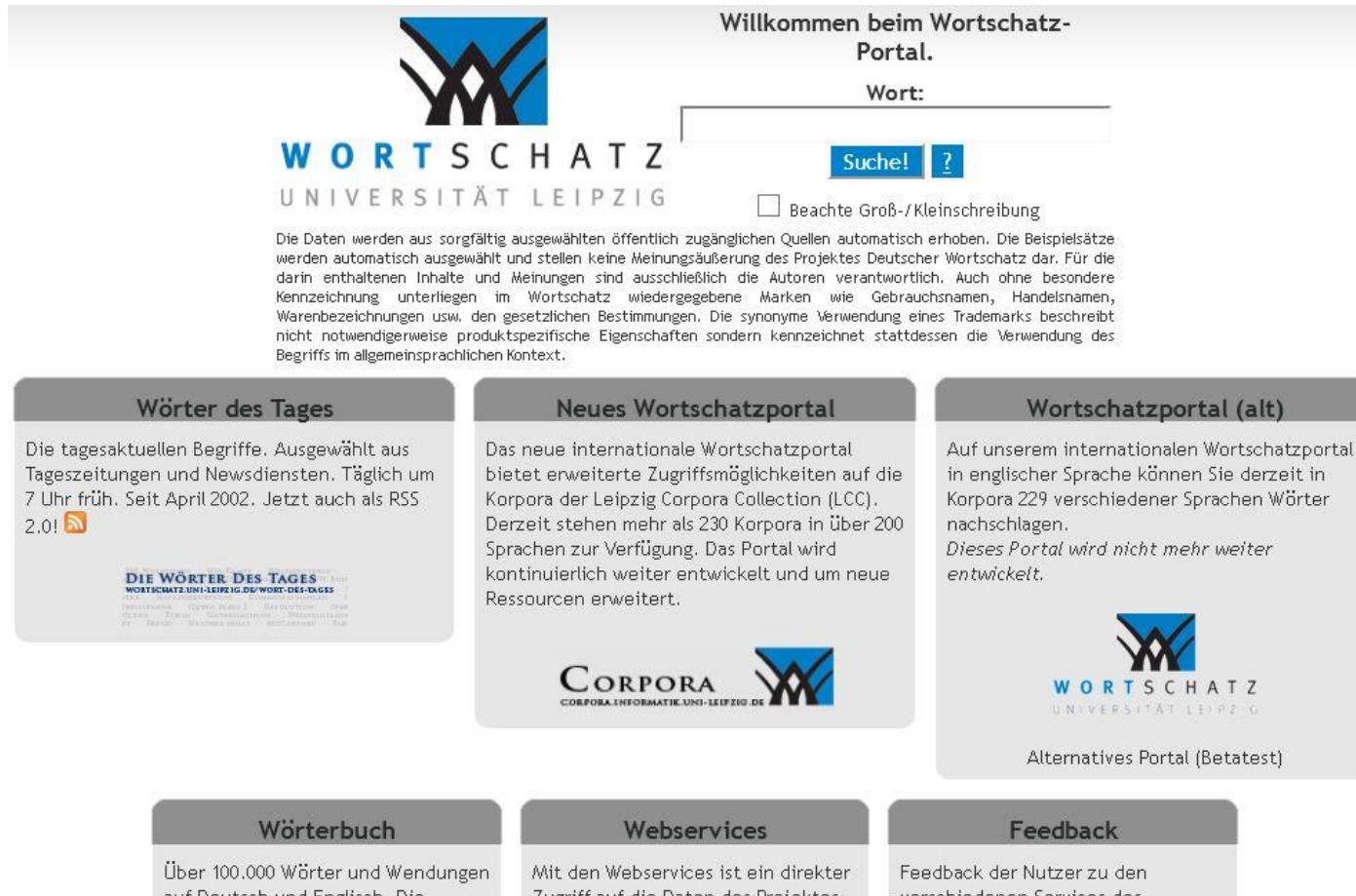
Selected Online Archives

The screenshot shows the HathiTrust Digital Library homepage. At the top left is the logo with a stylized orange book icon and the text "HATHI TRUST Digital Library". To the right is a yellow "LOG IN +" button. Below the logo is a search bar with the placeholder "Search words about or within the items". Next to it are tabs for "FULL-TEXT" (selected) and "CATALOG". A dropdown menu shows "All Fields" and a checked checkbox for "Full view only". To the right of the search bar is a question mark icon with the text "Should I search catalog or full-text?". Below the search area, a text box states: "HathiTrust is a [partnership](#) of academic & research institutions, offering a collection of millions of titles digitized from libraries around the world." On the far left, under "WHAT CAN YOU DO WITH HATHITRUST?", there are four options: "BROWSE COLLECTIONS" (with a stack of books icon), "READ BOOKS ONLINE" (with a computer monitor icon), "READ BOOKS ON THE GO" (with a smartphone icon), and "DOWNLOAD BOOKS* & CREATE COLLECTIONS" (with a lock icon). The bottom right of this section has a note: "*requires institutional login".

<https://www.hathitrust.org/>

- >3mio HD-Scans from editions from various sources
- Pictures, PDF, no text (?)
- 30 Languages
- Login required for full access
- Selected documents as Public Domain
- Research, Teaching, Literature, Politics,...

Selected Online Archives



The screenshot shows the homepage of the Wortschatz Portal. At the top, there is a logo consisting of three stylized blue 'W' shapes above the text "WORTSCHATZ UNIVERSITÄT LEIPZIG". Below the logo, a search bar has the placeholder "Willkommen beim Wortschatz-Portal." and "Wort:" followed by a text input field, a "Suche!" button, and a help icon. A checkbox labeled "Beachte Groß-/Kleinschreibung" is checked. To the right of the search bar, there is a note about the data being automatically collected from various public sources. Below the search area, there are several sections: "Wörter des Tages" (with a link to "DIE WÖRTER DES TAGES"), "Neues Wortschatzportal" (describing the international portal for the Leipzig Corpora Collection), "Wortschatzportal (alt)" (noting it is no longer developed), "Wörterbuch" (linking to a dictionary), "Webservices" (linking to services), and "Feedback" (linking to user feedback). The footer contains links to "CORPORA CORPORA.INFORMATIK.UNI-LEIPZIG.DE" and "WORTSCHATZ UNIVERSITÄT LEIPZIG".

<http://wortschatz.uni-leipzig.de/>

- Word as Resource
- Cooccurrenz, Trend Analysis, Example sentences,...
- Updated regularly based on selected Online Resources

Selected Online Archives

The screenshot shows the homepage of the Virtual Language Observatory (VLO). At the top, there is a banner featuring the VLO logo (a circular portrait of a person's face), the text "Virtual Language Observatory", and the tagline "Explore the world of language resources and technology from different perspectives". Below the banner, there are links for "VLO > Faceted search", "Link | Report | Help", and a search bar with the placeholder "SEARCH". The search results page displays "ALL RECORDS" with 780945 results, showing pages 1 through 10. Two specific records are listed: "Persian MS 364" and "Islamic Arabic 1465". Each record has an "Expand" link. To the right, a sidebar titled "NARROW DOWN" lists facets for filtering search results: LANGUAGE, COLLECTION, RESOURCE TYPE, CONTINENT, COUNTRY, MODALITY, GENRE, and SUBJECT.

VLO > Faceted search

Link | Report | Help

SEARCH

Search

ALL RECORDS

780945 results

<< < 1 2 3 4 5 6 7 8 9 10 > >>

Showing 1 to 10

Persian MS 364

A Persian translation of the history of Shakya-Muni or Gautama Buddha. A Persian translation of the history of Shakya-Muni or Gautama Buddha.; Bibliographical description based on an index created by Reza Navabpour circa 1993. Identification of provenance based on manuscript catalogue by Michael Kerney, circa 1890s.

Resources: | 1 other |

Islamic Arabic 1465

Manuscript description based on H. L. Gottschalk et al.: Islamic Arabic Manuscripts. Catalogue of the Mingana Collection of Manuscripts. Vol. IV. Revised edition edited by Derek Hopwood. Birmingham: Selly Oak Colleges, 1985, with additional

Expand

NARROW DOWN

- + LANGUAGE
- + COLLECTION
- + RESOURCE TYPE
- + CONTINENT
- + COUNTRY
- + MODALITY
- + GENRE
- + SUBJECT

<https://vlo.clarin.eu/?7>

Facetted Federated Search

- Facets include various properties (genre, modality, organisation,...)
- 780945 Documents

Selected Online Archives

<http://www.perseus.tufts.edu/hopper/>

<http://paralleltext.info/data/>

<http://shakespeare.mit.edu/>

<http://historicaltextarchive.com/>

<http://classics.mit.edu/>

(...)

Data Heterogeneity

No common format & access

No real distinction between text structure, meta information and text

<speech> vs <speaker> vs Elliot:

Files and tools incompatible accross projects

Research Infrastructures

Environments for DH that allow for an easy and efficient

- evaluation
- selection
- reuse, and
- combination of NLP tools

in combination with an easy access to

- different kinds of textual data
- that have well assigned metadata

CLARIN

- CLARIN
 - European Research Infrastructure for Language Resources and Technology
- Virtual Language Observatory
 - Tool for faceted distributed search

The screenshot shows the CLARIN Virtual Language Observatory search interface. At the top, there is a search bar and a "See all records" button. Below the search bar, it says "Showing all 422901 records" and "Results per page: 10". On the left, there are several facets for filtering results: Language (ukr, rus, deu, nld, spa, eng, ces), Collection (news crawl), Resource type (sentences), Modality (written, spoken), Format (text, audio, video), Keyword, Availability (2011-2013), and Search options. The main area lists various news corpora with their details and download links. For example, "ukr_newscrawl_2011_1M" has 1,000,000 sentences of a Ukrainian newspaper corpus from 2011. Other entries include "rus_news_2013_1M", "deu_news_2012_3M", "nld_news_2012_300K", "spa_news_2011_3M", "eng_news_2013_1M", "ces_news_2012_1M", and "deu_news_2010_10K". Each entry includes a small thumbnail icon and a "Download" link.

CLARIN

provide access to a huge variety of resources (data & tools) via
webservices

Metadata and Federated Search

workflows via chaining of webservices

(simple to use) webapplications, no local installations

“safe” citation based on PIDs

improvement of the distribution of resources and tools in various
communities

CLARIN's Virtual Language Observatory

The screenshot shows the homepage of the Virtual Language Observatory (VLO). At the top, there is a banner featuring the VLO logo (a circular portrait of a person's face), the text "Virtual Language Observatory", and a subtitle "Explore the world of language resources and technology from different perspectives". Below the banner, there is a map of Europe with various project logos overlaid: CLARIN, WALS, muLinguaNet, EURA, DOBES, DKL, and others. The main search interface includes a search bar with the term "Leipzig", a "Search" button, and a "Permalink | Report | Help" link. On the left, under "SEARCH", there is a "SEARCH RESULTS" section showing 6 results for "Leipzig". The first result is "Wortschatz", described as a collection of words and their cooccurrences from newspaper texts. The second result is "deu_news_2008_100K", described as a German newspaper corpus from 2008. On the right, there is a "NARROW DOWN" sidebar with filters for LANGUAGE (German selected), COLLECTION, RESOURCE TYPE (Written Corpus selected), COUNTRY, GENRE, and FORMAT.

VLO > Faceted search > Search: "Leipzig" > Selections: Written Corpus ✕ German ✕

Permalink | Report | Help

SEARCH

Leipzig

SEARCH RESULTS

6 results Showing 1 to 6

Wortschatz
Collected from newspaper texts, webcrawling, etc.: words (+frequency), cooccurrences (+graph), left/right neighbours, example sentences

Resources: | 1 other |

deu_news_2008_100K
100.000 sentences of a German newspaper corpus based on material from 2008

Resources: | 1 text document | 1 other |

NARROW DOWN

Use the categories below to limit the search results to those matching the selected value(s).

+ LANGUAGE
German ✕

+ COLLECTION

- RESOURCE TYPE
Written Corpus ✕

+ COUNTRY

+ GENRE

+ FORMAT

CLARIN's Virtual Language Observatory

The screenshot shows the CLARIN-D Federated Content Search interface. At the top, there is a logo consisting of a network of dots and lines, followed by the text "CLARIN-D FEDERATED CONTENT SEARCH". Below the logo is a search bar containing the word "Leipzig". To the right of the search bar is a "Search" button with a magnifying glass icon. Underneath the search bar are four navigation links: "About", "Search options", "Search results" (which is highlighted in red), and "Help". Below these links are several small icons: a red circle with a white "X" (Clear), a blue square with a white "W" (Use WebLicht), a person icon (Export to Personal Workspace), and a download icon (Download). The main content area displays a list of search results. Each result is presented in a row with two columns. The first column contains the text snippet, and the second column contains the word "Leipzig" in red. The results are as follows:

- My Sustainable World wird den in Leipzig aufgenommenen, fachübergreifenden Dialog in den Bereichen Energy, Living und Mobility sowie Finanzierung nachhaltiger Konzepte fortführen.
- Auch die zweite Mannschaft von Erzgebirge Aue konnte den Siegeszug von RB Leipzig nicht stoppen und unterlag zu Hause mit 0:1.
- Michael Boris, der erst seit drei Tagen das Zepter als Trainer bei Schalke II schwingt, ging im Vorfeld mit seinen Jungs hart zu Werke: "Gestern in Leipzig haben wir kein Spiel gewonnen und nur drei Tore erzielt.
- In Richtung Leipzig ist die Autobahn allerdings befahrbar.
- So wandte sich kürzlich der Lehrer einer neunten Klasse aus Leipzig an das NDC.
- Der Sprecher von Rasenballsport Leipzig , Hans-Georg Felder, sagte, nach der Umgestaltung werde zu erkennen sein, dass es sich um das Stadion von RB Leipzig handle.
- Aktuell werden in Leipzig parallel zum BMW X1 der 3-Türer, das Coupé und das Cabrio der BMW 1er Rei
- Die CDU im Landtag sprach von einem Affront gegen die Messestadt Leipzig .

CLARIN's Virtual Language Observatory

The screenshot shows the CLARIN-D Federated Content Search interface. The search bar contains the query "Leipzig". Below the search bar are navigation links: "About", "Search options", "Search results" (which is highlighted in red), and "Help". Underneath these are additional links: "Clear", "Use WebLicht", "Export to Personal Workspace", and "Download".

The main content area displays two search results from different sources:

TIGER, IMS, Universität Stuttgart

Mit der Rheinbraun Verkaufsgesellschaft wurden drei Vertriebstöchter in Leipzig, Weimar und Potsdam gegründet, die eine flächendeckende Versorgung mit leichtem Heizöl, Diesel und Schmierstoffen gewährleisten sollen.

Inzwischen hat sich der Schleier über Leipzig und Zwickau, der Lausitz oder dem `` schwarzen Dreieck '' bei Zittau gelichtet.

Dingler Online, Berlin-Brandenburg Academy of Sciences and Humanities

Leipzig im Juli 1820.

Vor ungefähr 15 Jahren brachten es die Franzosen unter dem Namen "Chinesische Schminkblätter," (Rouge en feuille) das erstmal auf die Messe nach Leipzig von wo es sich allmählich auch dem östlichen und nördlichen Europa verbreitete.



Integration in CLARIN

- Integrated in repository of CLARIN center Leipzig
- May function as a template for integration of more CTS servers / instances
- CMDI 1.2 compliant metadata that
 - Allow direct access to services and raw files (here: TEI)
 - Reflects text granularity (currently 3 levels)
 1. Collection (here: Excerpt of *Parallel Bible Corpus*)
 2. Document (here: Bible)
 3. 1 Resource per Book of Bible

Integration in CLARIN

- Presentation in VLO:

urn:cts:pbc:bible

urn:cts:pbc:bible.parallel.arb.norm:

urn:cts:pbc:bible.parallel.ceb.bugna:

urn:cts:pbc:bible.parallel.ces.kralicka:

...

- Planned: FCS endpoint for content search based on existing fulltext index

Record details	Resources (0)	Availability	All met
Use the tree below to explore the hierarchy this record is part of.			
 Parallel Bible Corpus Canonical Text Service			
- The Bible in Arabic			
- Cebuano Ang Biblia (Bugna Version)			
- Czech Bible Kralicka. Version of 1613			

VLO / Faceted search / Search results / Record: The Bible in French. King James Version.



Record 3 of 21

[< previous](#) [next >](#)

The Bible in French. King James Version.

 Show the original provider's page for this record

?

Record details Resources (68) Availability All metadata Technical details Hierarchy

Resources (68)

Availability

All metadata

Technica

Details

ierarchy

Mime type: text/xml

Link: http://cts.informatik.uni-leipzig.de/pbc/cts?request=GetPassage&urn=urn:cts:pbc:bible-parallel_fra_kingjames:10

&&	&	1	2	3	4	5	6	&	&&
----	---	---	---	---	---	---	---	---	----



Record 3 of 21

[< previous](#) [next >](#)

The Bible in French. King James Version.

 Show the original provider's page for this record



Record details Resources (68) Availability All metadata Technical details Hierarchy

Mime type: text/xml

Link: <http://cts.informatik.uni-leipzig.de/pbc/cts/?request=GetPassage&urn=urn:cts:pbc:bible.parallel.fra.kingjames:10>

Digital Athenaeus Index Digger

Digital Athenaeus

S. Douglas Olson, Athenaeus' Index of Authors, Texts, and Persons

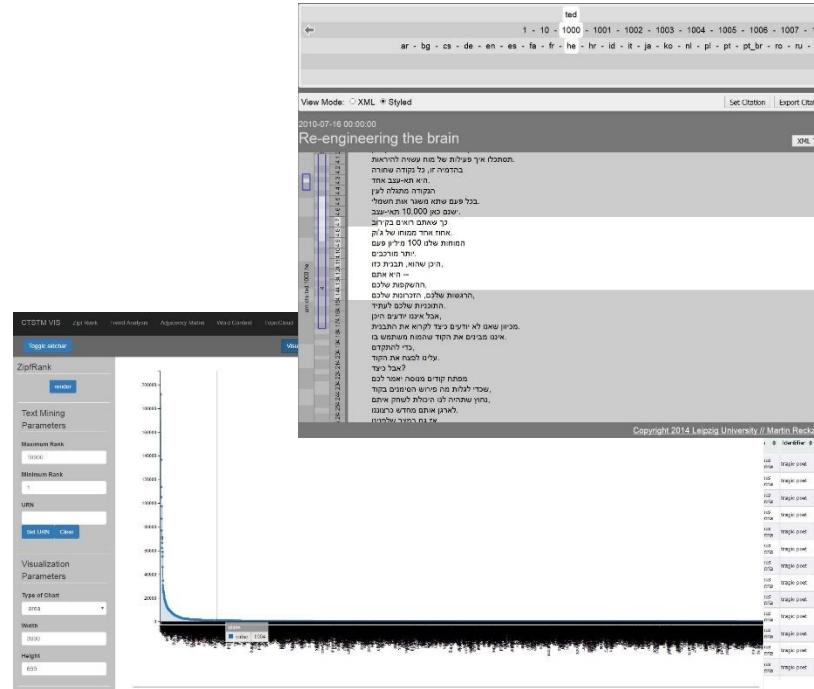
 OR

Where Name='Achaeus of Eretria'

#	Name	Identifier	Sub-Identifier	Prosopographical Reference	Prosopographical Reference id	Work	Edition	Edition id	Passage	Athenaeus Book	Casaubon Reference	Kaibel Reference	Vote	Note Reference	Read Greek Text (Perseus)	Read Greek Text (FrontEnd Uni Leipzig)	Annotate with Perseids
6	Achaeus of Eretria	tragic poet				TrGF	20	F 4	10		10.414c	10.6			10.6	10.6	10.6
7	Achaeus of Eretria	tragic poet				TrGF	20	F 4	10		10.414d	10.6 10.7	Vote		10.6 10.7	10.6 - 10.7	10.6 - 10.7
8	Achaeus of Eretria	tragic poet				TrGF	20	F 10	15		15.690b	15.41			15.41	15.41	15.41
9	Achaeus of Eretria	tragic poet				TrGF	20	F 12	4		4.173d	4.74			4.74	4.74	4.74
10	Achaeus of Eretria	tragic poet				TrGF	20	F 13	4		4.173d	4.74			4.74	4.74	4.74
11	Achaeus of Eretria	tragic poet				TrGF	20	F 14	11		11.480f	11.61			11.61	11.61	11.61
12	Achaeus of Eretria	tragic poet				TrGF	20	F 17	14		14.641d	14.48			14.48	14.48	14.48
13	Achaeus of Eretria	tragic poet				TrGF	20	F 19	10		10.461c	10.74			10.74	10.74	10.74
14	Achaeus of Eretria	tragic poet				TrGF	20	F 19	10		10.461d	10.74			10.74	10.74	10.74
15	Achaeus of Eretria	tragic poet				TrGF	20	F 25	6		6.270e	6.99 6.100	Vote		6.99 6.100	6.99 - 6.100	6.99 - 6.100
16	Achaeus of Eretria	tragic poet				TrGF	20	F 26	15		15.668a	15.6			15.6	15.6	15.6
17	Achaeus of Eretria	tragic poet				TrGF	20	F 26	15		15.668b	15.6			15.6	15.6	15.6
18	Achaeus of Eretria	tragic poet				TrGF	20	F 27	7		7.277b	7.5			7.5	7.5	7.5

[http://www.digitalathenaeus.org/tools/OlsonIndex/digger.php?what\[\]=%Name%Achaeus+of+Eretria&onoffswitch=on](http://www.digitalathenaeus.org/tools/OlsonIndex/digger.php?what[]=%Name%Achaeus+of+Eretria&onoffswitch=on)

Interoperability through application independent references



This block contains three screenshots illustrating the use of application-independent references:

- Screenshot 1:** A search interface for 'Re-engineering the brain' showing a list of results related to 'brain' and 'neuron'.
- Screenshot 2:** A detailed view of a reference entry, showing multiple levels of cross-references between different texts and authors.
- Screenshot 3:** A search interface for 'Digital Athenaeus' showing a list of results related to 'Athenaeus of Eretia'.

Digital Athenaeus
S. Douglas Olson, Athenaeus' Index of Authors, Texts, and Persons

Where Name=Athenaeus of Eretia'											
#	Author	Sub-Author	Prosepoem/Book Reference	Prosepoem/Book Reference id	Work	Edition	Editor	Page	Number Books	Occasion	Refid
1			TiotF	10				10	10		10.0
2			TiotF	10				10.0	10		10.1
3			TiotF	10				10.0	10		10.2
4			TiotF	10				10.0	10		10.3
5			TiotF	10				10.0	10		10.4
6			TiotF	10				10.0	10		10.5
7			TiotF	10				10.0	10		10.6
8			TiotF	10				10.0	10		10.7
9			TiotF	10				10.0	10		10.8
10			TiotF	10				10.0	10		10.9
11			TiotF	10				10.0	10		10.10
12			TiotF	10				10.0	10		10.11
13			TiotF	10				10.0	10		10.12
14			TiotF	10				10.0	10		10.13
15			TiotF	10				10.0	10		10.14
16			TiotF	10				10.0	10		10.15
17			TiotF	10				10.0	10		10.16
18			TiotF	10				10.0	10		10.17
19			TiotF	10				10.0	10		10.18
20			TiotF	10				10.0	10		10.19
21			TiotF	10				10.0	10		10.20
22			TiotF	10				10.0	10		10.21
23			TiotF	10				10.0	10		10.22
24			TiotF	10				10.0	10		10.23
25			TiotF	10				10.0	10		10.24
26			TiotF	10				10.0	10		10.25
27			TiotF	10				10.0	10		10.26
28			TiotF	10				10.0	10		10.27
29			TiotF	10				10.0	10		10.28
30			TiotF	10				10.0	10		10.29
31			TiotF	10				10.0	10		10.30
32			TiotF	10				10.0	10		10.31
33			TiotF	10				10.0	10		10.32
34			TiotF	10				10.0	10		10.33
35			TiotF	10				10.0	10		10.34
36			TiotF	10				10.0	10		10.35
37			TiotF	10				10.0	10		10.36
38			TiotF	10				10.0	10		10.37
39			TiotF	10				10.0	10		10.38
40			TiotF	10				10.0	10		10.39
41			TiotF	10				10.0	10		10.40
42			TiotF	10				10.0	10		10.41
43			TiotF	10				10.0	10		10.42
44			TiotF	10				10.0	10		10.43
45			TiotF	10				10.0	10		10.44
46			TiotF	10				10.0	10		10.45
47			TiotF	10				10.0	10		10.46
48			TiotF	10				10.0	10		10.47
49			TiotF	10				10.0	10		10.48
50			TiotF	10				10.0	10		10.49
51			TiotF	10				10.0	10		10.50
52			TiotF	10				10.0	10		10.51
53			TiotF	10				10.0	10		10.52
54			TiotF	10				10.0	10		10.53
55			TiotF	10				10.0	10		10.54
56			TiotF	10				10.0	10		10.55
57			TiotF	10				10.0	10		10.56
58			TiotF	10				10.0	10		10.57
59			TiotF	10				10.0	10		10.58
60			TiotF	10				10.0	10		10.59
61			TiotF	10				10.0	10		10.60
62			TiotF	10				10.0	10		10.61
63			TiotF	10				10.0	10		10.62
64			TiotF	10				10.0	10		10.63
65			TiotF	10				10.0	10		10.64
66			TiotF	10				10.0	10		10.65
67			TiotF	10				10.0	10		10.66
68			TiotF	10				10.0	10		10.67
69			TiotF	10				10.0	10		10.68
70			TiotF	10				10.0	10		10.69
71			TiotF	10				10.0	10		10.70
72			TiotF	10				10.0	10		10.71
73			TiotF	10				10.0	10		10.72
74			TiotF	10				10.0	10		10.73
75			TiotF	10				10.0	10		10.74
76			TiotF	10				10.0	10		10.75
77			TiotF	10				10.0	10		10.76
78			TiotF	10				10.0	10		10.77
79			TiotF	10				10.0	10		10.78
80			TiotF	10				10.0	10		10.79
81			TiotF	10				10.0	10		10.80
82			TiotF	10				10.0	10		10.81
83			TiotF	10				10.0	10		10.82
84			TiotF	10				10.0	10		10.83
85			TiotF	10				10.0	10		10.84
86			TiotF	10				10.0	10		10.85
87			TiotF	10				10.0	10		10.86
88			TiotF	10				10.0	10		10.87
89			TiotF	10				10.0	10		10.88
90			TiotF	10				10.0	10		10.89
91			TiotF	10				10.0	10		10.90
92			TiotF	10				10.0	10		10.91
93			TiotF	10				10.0	10		10.92
94			TiotF	10				10.0	10		10.93
95			TiotF	10				10.0	10		10.94
96			TiotF	10				10.0	10		10.95
97			TiotF	10				10.0	10		10.96
98			TiotF	10				10.0	10		10.97
99			TiotF	10				10.0	10		10.98
100			TiotF	10				10.0	10		10.99
101			TiotF	10				10.0	10		10.100

Technically, these unrelated projects can now work with shared resources.

This screenshot shows a search result for 'The Bible in French. King James Version.' in the Virtual Language Observatory. It includes a navigation bar, a search input field, and a detailed record view for the King James Version of the Bible. The record view displays various file formats and their details, such as XML, PDF, and HTML files, along with a preview of the text content.

Why include support for CTS URNs?

CTS is developed by Humanists & reflects the requirements from certain Digital Humanity communities

Perseus, Croatiae Auctores Latini, CITE, ...

Creating CTS ready data is a research & project goal in DH

“pick researchers up, where they are”

Technical benefits

Normalisation of generic text access, “Outsourcing” of text content, The Canonical Text Infrastructure, ...

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Automatische Sprachverarbeitung



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