

Digital Methods in Classical Studies

Monica Berti
(Universität Leipzig)

Ringvorlesung

Transdisziplinäre Aspekte digitaler Methodik in den Geistes- und Kulturwissenschaften
Leibniz-Institut für Europäische Geschichte
Mainz, July 3, 2019

Outline

1. Open Data of Ancient Greek and Latin Sources
2. Catalogs and Citation Systems
3. Data Entry and Analysis for Classical Philology
4. Critical Editions and Annotations
5. Linguistic Resources

1

Open Data of Ancient Greek and Latin Sources

Open Data



accessibility

- **open access**
- **open data**

Open Access ?

Papyri.info

DCLP

GL **THESAURUS LINGUAE GRAECAE**®
A Digital Library of Greek Literature
Project Director: Maria Pantelia

DE GRUYTER
**BIBLIOTHECA
TEUBNERIANA
LATINA (BTL)
& THESAURUS
LINGUAE
LATINAE (TLL)
ONLINE**


BREPOLIS
Brepols Online Databases

PACKARD HUMANITIES INSTITUTE
Digital Text Archives


Perseus Digital Library
Scaife Viewer
Browse Library Text Search
or try the Iliad or Plato's Apology.

Musisque
Deoque

LOEB CLASSICAL LIBRARY
Founded by JAMES LOEB 1911 Edited by JEFFREY HENDERSON


Open Philology
UNIVERSITÄT LEIPZIG



Open Greek and Latin Project


www.oxfordscholarlyeditions.com

THE DIGITAL LATIN LIBRARY

BrillOnline *Discovery*
Over three centuries of scholarly publishing



 digilibLT

and other projects ...

Open Access ?

Papyri.info

DCLP

THESAURUS LINGVAE GRAECAE®
A Digital Library of Greek Literature
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Open Greek and Latin Project

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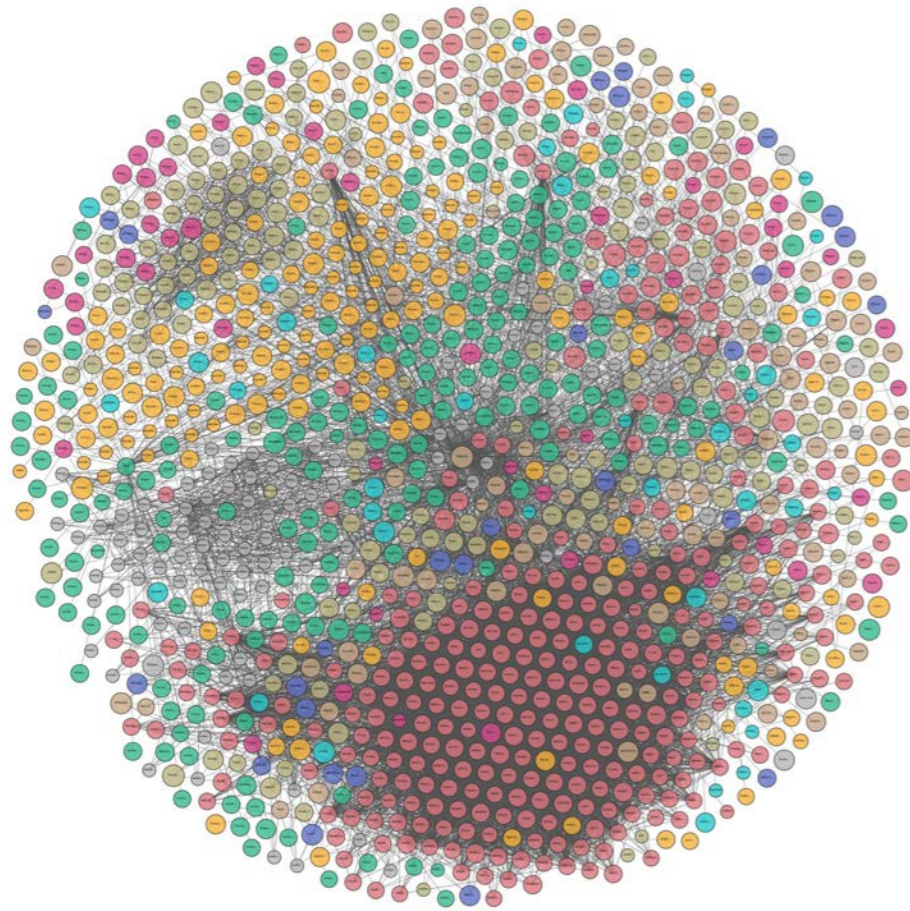
digilibLT

and other projects ...

- a wide variety of digital **collections** and **corpora**
- different **models** of **accessibility**
- different **business models**

Open Data ?

Linked Open Data



The Linked Open Data Cloud



<https://www.w3.org/wiki/LinkedData>
<https://www.w3.org/standards/semanticweb/data>

Open Data ?

Linked Ancient World Data

★ Available on the web (whatever format) but with an open licence, to be Open Data

★★ Available as machine-readable structured data (e.g. excel instead of image scan of a table)

★★★ As above plus non-proprietary format (e.g. CSV instead of excel)

★★★★ All the above plus: Use open standards from W3C (RDF and SPARQL) to identify things, so that people can point at your stuff

★★★★★ All the above, plus: Link your data to other people's data to provide context

<http://lawd.info/>

<http://dlib.nyu.edu/awdl/isaw/isaw-papers/7/>

Open Data ?

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PLEIADES

Papyri.info



OPEN CONTEXT



<http://lawd.info/>

<http://dlib.nyu.edu/awdl/isaw/isaw-papers/7/>

PLEIADES

Alexandria

a Pleiades place resource

Creators: A. Bernand

Contributors: [Brady Kiesling](#), [Sean Gillies](#), Jen Thum, [Jeffrey Becker](#), [Iris Fernandez](#), H. Kopp, Herbert Verreth, B. Siewert-Mayer, Mark Depauw, R. Talbert, [Adam Prins](#), W. Röllig, [Tom Elliott](#), DARMC, [Roko Rumora](#), [Francis Deblauwe](#), [Eric Kansa](#)


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Last modified Aug 08, 2018 01:41 PM — [History](#)

tags: [dare:ancient=1](#), [dare:major=1](#), [dare:feature=major settlement](#)

The ancient port city in Egypt's Nile Delta, founded by Alexander the Great in 332/331 BCE.

Canonical URI for this page:

<https://pleiades.stoa.org/places/727070> 

Representative Point (Latitude, Longitude):

31.201435, 29.909773 

Locations:

- [DARMC location 1090](#) (330 BC - AD 640)

Names:

- [Alexandrea ad Aegyptum](#) (Georgian, 540 BC - AD 640)
- [Alexandreia](#) (Ancient Greek, 540 BC - AD 650)
- [Alexandreia ad Aegyptum](#) (30 BC - AD 226)
- [Alexandria](#) (330 BC - AD 640)
- [Alexandria](#) (German, 1548 BC - AD 2000)
- [Rakote](#) (Coptic, AD 300 - AD 640)
- [Rhakōtis](#) (Ancient Greek, 330 BC - AD 640)
- [al-Iskandariyya](#) (AD 1370 - AD 1501)
- [al-Iskandariya](#) (Modern Standard Arabic, 2010 BC - AD 2000)
- [al-Iskandariya](#) (AD 819 - AD 2000)

Alexandria makes connections with:

None

Alexandria receives connections from:

- [Pharos](#) → [connection](#) → Alexandria (unspecified date range)
- [Serapeum of Alexandria](#) → [at](#) → Alexandria (unspecified date range)
- [Chatby Necropolis](#) → [at](#) → Alexandria (unspecified date range)
- [Catacombs of Kom el Shoqafa](#) → [at](#) → Alexandria (unspecified date range)
- [Kom el-Dikka](#) → [at](#) → Alexandria (unspecified date range)

Place type:

settlement, port

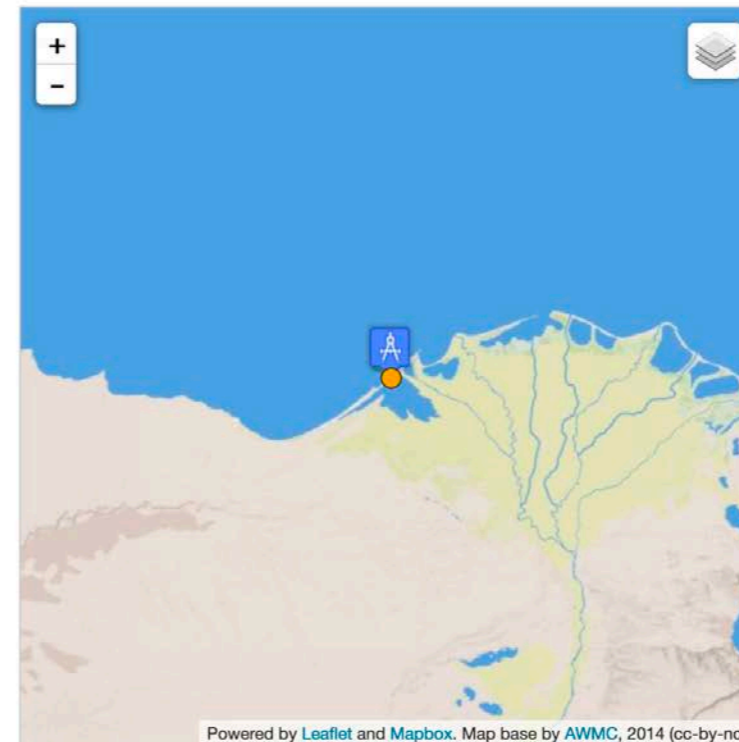
References:

Evidence:

- [TP \(Talbert: CUP\) 8C3 \(Talbert 367\)](#)

See Further:

- [BATlas 74 B2 Alexandria](#)



Powered by [Leaflet](#) and [Mapbox](#). Map base by [AWMC](#), 2014 (cc-by-nc).

[Show place in AWMC's Antiquity À-la-carte](#), [Google Earth](#), or [Pelagios' Peripleo](#).

[Show area in GeoNames](#), [Google Maps](#), or [OpenStreetMap](#).

```
{{cite web |url=https://pleiades.stoa.org/places/727070 |title=Places: 727070 (Alexandria) |author=Bernand, A. |accessdate=June 24, 2019 3:40 am |publisher=Pleiades}}
```


Papyri.info

p.fay.110 = HGV P.Fay. 110 = Trismegistos 10775 = columbia.apis.p387

metadata
 HGV data TM data APIS catalog record
 text
 transcription images translation

Canonical URI: <http://papyri.info/ddbdp/p.fay;:110>


HGV: P.Fay. 110 [\[source\]](#) [\[xml\]](#)

Title	Letter from Gemellus to Epagathus
Publications	P.Fay. 110 [More in series P.Fay.]
Support/Dimensions	Papyrus
Post-Concordance BL Entries	VIII 122; XII 68
Translations	Olsson, Papyrusbriefe (1925) 52; Arzt-Grabner, Christlicher Alltag (2008), S. 122.; White, Ancient Letters (1986), 95
Origin	Euhemeria (Arsinoites) [More from Euhemeria (Arsinoites)]
Material	Papyrus
Date	11. Sept. 94 [More from the period between 94 CE and 95 CE]
Commentary	Gehört zum Gemellus - Archiv. Neudruck: Arzt-Grabner, Christlicher Alltag, S. 121f.
Print Illustrations	Plate V (nicht VI); Montevicchi, Papirologia, Tav. 44; Roberts, Greek Literary Hands, 11 b, vor S. 11 (Z. 22)
Subjects	Brief (privat); Lucius Bellenos Gemellos an Epagathos; Aufträge; Wirtschaft (Land)
Images	http://wwwapp.cc.columbia.edu/ldpd/app/apis/item?mode=item&k...
License	 © Heidelberger Gesamtverzeichnis der griechischen Papyrusurkunden Ägyptens. This work is licensed under a Creative Commons Attribution 3.0 License .

Trismegistos: 10775 [\[source\]](#)

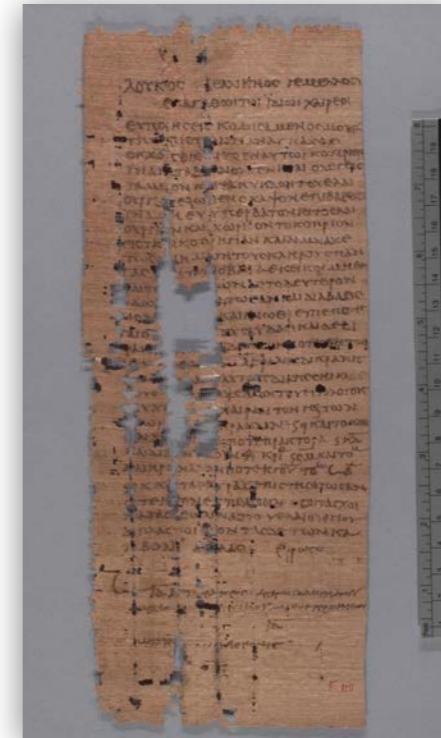
Publications	P. Fay. 110 (Grenfell, Bernard P. / Hunt, Arthur S. / Hogarth, David G.; 1900) = Olsson, Papyrusbriefe (Olsson, Bror // ; 1925)
Inv. no.	New York, Columbia University P. Fay. 110
Date	AD 94 Sep 11 (Domitianus, year 14, Germanicus (= Pachons) 14)
Language	Greek
Provenance	Egypt, oob - Euhemeria (Qasr el-Banat)[found & written]
Archive	Epagathos estate manager of Lucius Bellienus Gemellus
People	mentioned people
Places	mentioned places

Catalog Record: columbia.apis.p387 [\[xml\]](#)

Title	Letter [94 AD]
Summary	Letter from Lucius Bellenus Gemellus to Epagathus, perhaps his nephew. Gemellus sends instructions Epagathus to perform certain tasks related to the running of his estate
Citations	P.Fay. 110
Inv. Id	Fay. 110
Support/Dimensions	1 papyrus fragment; 10.5 x 26.9 cm
Language	In Greek
Date	94 CE [More from the period between 94 CE and 95 CE]
Note (general)	Written along the fibers; on the verso, an address
Note (general)	35 lines; complete but for a large hole at the center left. Some holes along a vertical fold line
Note (general)	The address is written in large, formal letters. The text is in a semi-formal round hand of the literary type. The last 4 lines are written in a small cursive hand
Note (general)	Some abbreviations towards the end of the text
Subjects	Lucius Bellenus Gemellus -- landowner in the Fayum; Papyri; Papyri
License	 This work is licensed under a Creative Commons Attribution-NonCommercial 3.0 License .

DDbDP transcription: p.fay.110 [\[xml\]](#)

AD94 Euhemeria



<http://papyri.info/ddbdp/p.fay;:110>

- <https://www.trismegistos.org/text/10775>
- <http://papyri.info/hgv/10775/source>
- <http://papyri.info/apis/columbia.apis.p387/source>
- <http://papyri.info/apis/columbia.apis.p387/images>



TM 10775

 **Stable URI (with TM ID):**
www.trismegistos.org/text/10775

Date: AD 94 Sep 11

Provenance: Euhemeria (Qasr el-Banat) - Egypt (00 - Aegyptus) [found & written]

Language/script: Greek

Material: papyrus

Recto/Verso: Ro/Vo, back: address

More info: [DDbDP \(PN\)](#), [HGV](#), [PapPal](#), [PN-APIS \(Columbia\)](#)

Publications

→ [P. Fay. 110 \(Grenfell, Bernard P. / Hunt, Arthur S. / Hogarth, David G. - 1900\)](#) (default)
· [Olsson, Papyrusbriefe 52 \(Olsson, Bror - 1925\)](#)

Collections

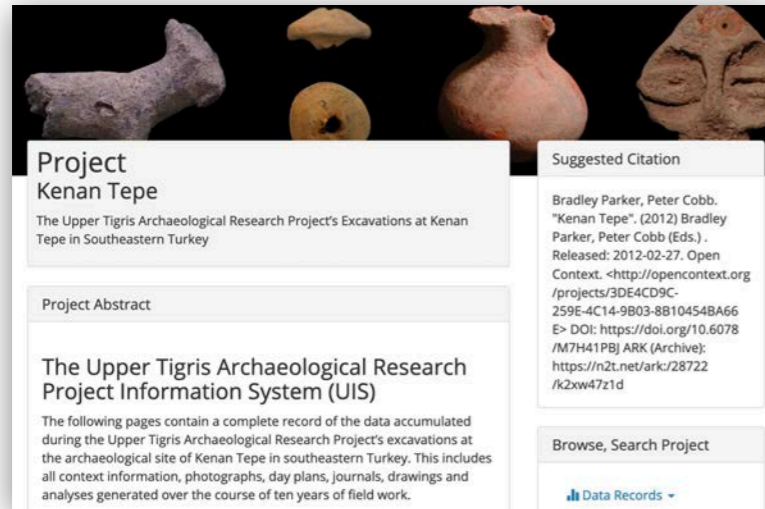
[New York, Columbia University P. Fay. 110](#)

Archive

[Epagathos estate manager](#)

Information mentioned in this text

OPEN CONTEXT



Project
Kenan Tepe

The Upper Tigris Archaeological Research Project's Excavations at Kenan Tepe in Southeastern Turkey

Suggested Citation

Bradley Parker, Peter Cobb. "Kenan Tepe". (2012) Bradley Parker, Peter Cobb (Eds.). Released: 2012-02-27. Open Context. <<http://opencontext.org/projects/3DE4CD9C-259E-4C14-9B03-8B10454BA66E>> DOI: <https://doi.org/10.6078/M7H41PB> ARK (Archive): <https://n2t.net/ark:/28722/k2xw47z1d>

Project Abstract

The Upper Tigris Archaeological Research Project Information System (UIS)

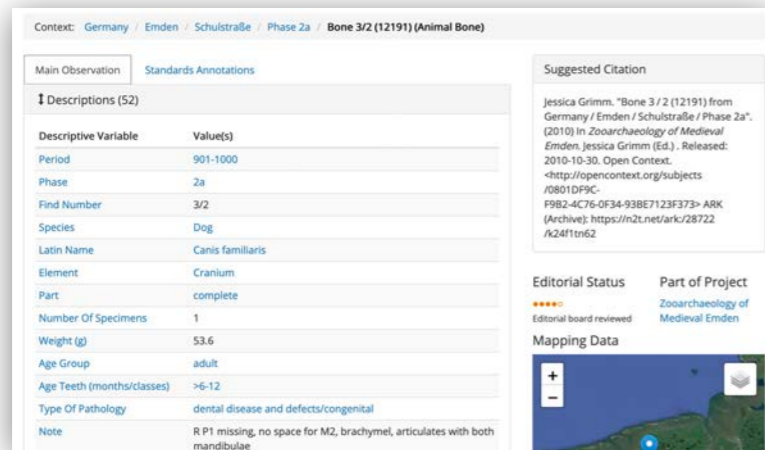
The following pages contain a complete record of the data accumulated during the Upper Tigris Archaeological Research Project's excavations at the archaeological site of Kenan Tepe in southeastern Turkey. This includes all context information, photographs, day plans, journals, drawings and analyses generated over the course of ten years of field work.

Browse, Search Project

[Data Records](#)

Projects

<https://opencontext.org/projects/3DE4CD9C-259E-4C14-9B03-8B10454BA66E>



Context: Germany / Emden / Schulstraße / Phase 2a / Bone 3/2 (12191) (Animal Bone)

Main Observation Standards Annotations

↓ Descriptions (52)

Descriptive Variable	Value(s)
Period	901-1000
Phase	2a
Find Number	3/2
Species	Dog
Latin Name	Canis familiaris
Element	Cranium
Part	complete
Number Of Specimens	1
Weight (g)	53.6
Age Group	adult
Age Teeth (months/classes)	>6-12
Type Of Pathology	dental disease and defects/congenital
Note	R P1 missing, no space for M2, brachymel, articulates with both mandibulae

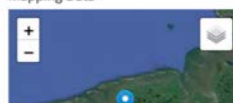
Suggested Citation

Jessica Grimm. "Bone 3 / 2 (12191) from Germany / Emden / Schulstraße / Phase 2a". (2010) In *Zooarchaeology of Medieval Emden*. Jessica Grimm (Ed.). Released: 2010-10-30. Open Context. <<http://opencontext.org/subjects/0801DF9C-F9B2-4C76-0F34-93BE7123F373>> ARK (Archive): <https://n2t.net/ark:/28722/k241tn62>

Editorial Status **Part of Project**

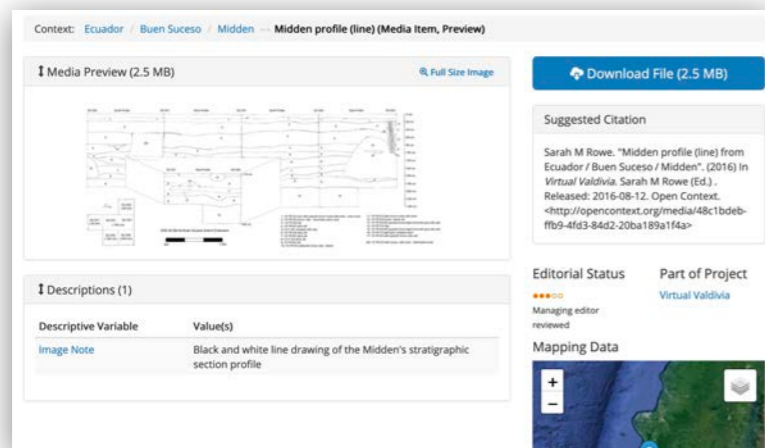
★★★★ Editorial board reviewed [Zooarchaeology of Medieval Emden](#)

Mapping Data



Data record

https://opencontext.org/subjects/0801DF9C-F9B2-4C76-0F34-93BE7123F373#tab_obs-1



Context: Ecuador / Buen Suceso / Midden -- Midden profile (line) (Media Item, Preview)

Media Preview (2.5 MB) [Full Size Image](#) [Download File \(2.5 MB\)](#)

↓ Descriptions (1)

Descriptive Variable	Value(s)
Image Note	Black and white line drawing of the Midden's stratigraphic section profile


Suggested Citation

Sarah M Rowe. "Midden profile (line) from Ecuador / Buen Suceso / Midden". (2016) In *Virtual Valdivia*. Sarah M Rowe (Ed.). Released: 2016-08-12. Open Context. <<http://opencontext.org/media/48c1bdeb-ffb9-4fd3-84d2-20ba189a1f4a>>

Editorial Status **Part of Project**

★★★ Managing editor reviewed [Virtual Valdivia](#)

Mapping Data



Media

<https://opencontext.org/media/48c1bdeb-ffb9-4fd3-84d2-20ba189a1f4a>

Digital Libraries

generations of digital corpora in Classics

- make texts available online
- professional data entry and consistent markup scheme
- semantic mark up in SGML/XML (TEI)
- image-front collections with page images
- decentralized contributions from users (million book libraries)
- multiple editions of primary sources
- annotations
- ...

"Rome Wasn't Digitized in a Day": Building a Cyberinfrastructure for Digital Classics

by Alison Babeu

August 2011



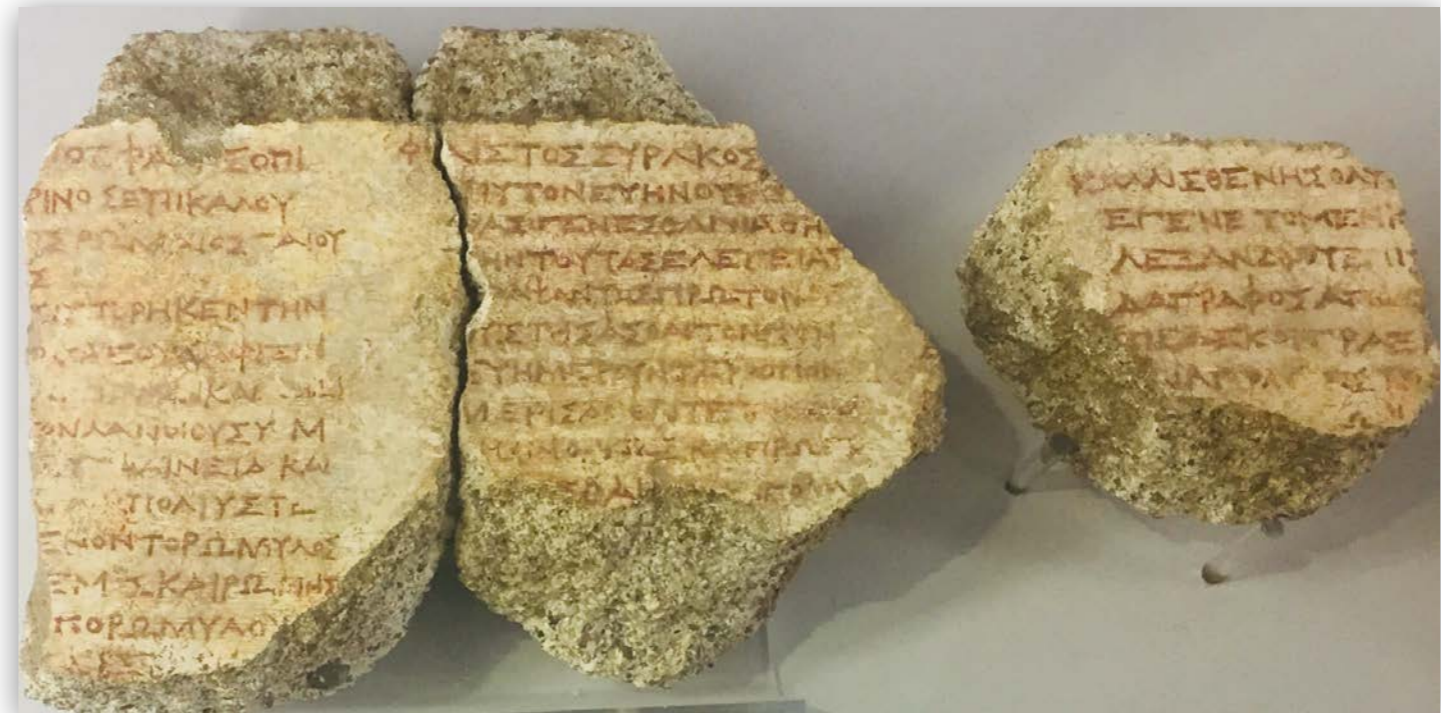
2

Catalogs and Citation Systems

Philology

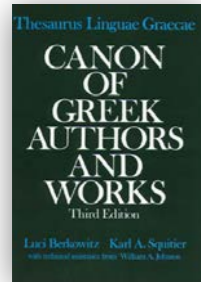


- canons
- catalogs
- citation systems



Tauromenium, Lapidarium
Fragments of painted library catalog
(3rd-2nd century BC)

<http://sicily.classics.ox.ac.uk/inscription/ISic0613>



TLG Canon of Greek Authors and Works

MY SEARCH SELECTIONS (1)

[Go to Text Search](#) | [Clear all](#)

XENOPHON Hist. {0032} X

- Hellenica {001} X
- Memorabilia {002} X
- Oeconomicus {003} X
- Symposium {004} X
- Apologia Socratis {005} X
- Anabasis {006} X
- Cyropaedia {007} X
- Hiero {008} X
- Agesilaus {009} X
- De republica Lacedaemoniorum {010} X
- De vectigalibus {011} X
- Hipparchicus {012} X
- De re equestri {013} X
- Cynegeticus {014} X
- Atheniensium respublica {015} X

[Go to Text Search](#) | [Clear all](#)

XENOPHON Hist.
5-4 B.C.
Hist.
Atheniensis

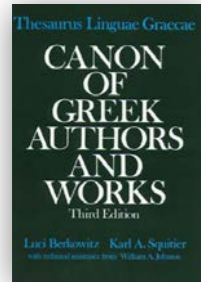
Deselect all **Submit**

1. **Hellenica {0032.001} X** (Click to select) ↗
Hist.
E.C. Marchant, *Xenophontis opera omnia*, vol. 1, Oxford: Clarendon Press, 1900 (repr. 1968)
Word Count: 66,525

- Breakdown
*1.1.1-7.5.27
- Cross References
 - Cf. et XENOPHONTIS EPISTULAE {1754}
 - Scholia: Cf. SCHOLIA IN XENOPHONTEM {5040}

2. **Memorabilia {0032.002} X** (Click to select) ↗
Biogr., Dialog., Phil.
E.C. Marchant, *Xenophontis opera omnia*, vol. 2, 2nd edn., Oxford: Clarendon Press, 1921 (repr. 1971)
Word Count: 35,831

- Breakdown
*1.1.1-4.8.11
- Cross References
 - Cf. et XENOPHONTIS EPISTULAE {1754}
 - Scholia: Cf. SCHOLIA IN XENOPHONTEM {5040}



TLG Canon of Greek Authors and Works

MY SEARCH SELECTIONS (1)

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XENOPHON Hist. {0032} X

- Hellenica {001} X
- Memorabilia {002} X
- Oeconomicus {003} X
- Symposium {004} X
- Apologia Socratis {005} X
- Anabasis {006} X
- Cyropaedia {007} X
- Hiero {008} X
- Agesilaus {009} X
- De republica Lacedaemoniorum {010} X
- De vectigalibus {011} X
- Hipparchicus {012} X
- De re equestri {013} X
- Cynegeticus {014} X
- Atheniensium respublica {015} X

Go to Text Search | Clear all

XENOPHON Hist.
5-4 B.C.
Hist.
Atheniensis

Deselect all **Submit**

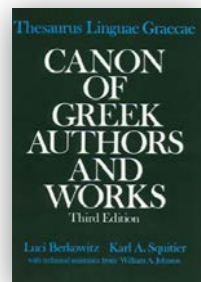
1. **Hellenica {0032.001}** (Click to select) ↗
Hist.
E.C. Marchant, *Xenophontis opera omnia*, vol. 1, Oxford: Clarendon Press, 1900 (repr. 1968)
Word Count: 66,525

- Breakdown
*1.1.1-7.5.27
- Cross References
 - Cf. et XENOPHONTIS EPISTULAE {1754}
 - Scholia: Cf. SCHOLIA IN XENOPHONTEM {5040}

2. **Memorabilia {0032.002}** (Click to select) ↗
Biogr., Dialog., Phil.
E.C. Marchant, *Xenophontis opera omnia*, vol. 2, 2nd edn., Oxford: Clarendon Press, 1921 (repr. 1971)
Word Count: 35,831

- Breakdown
*1.1.1-4.8.11
- Cross References
 - Cf. et XENOPHONTIS EPISTULAE {1754}
 - Scholia: Cf. SCHOLIA IN XENOPHONTEM {5040}

{tlg0032}



TLG Canon of Greek Authors and Works

Book chapter section line

[Prev](#) | [Next](#)

XENOPHON, *Hellenica*. {0032.001}

1.1.
(1) ΕΛΛΗΝΙΚΩΝ Α

Μετὰ δὲ ταῦτα οὐ πολλαῖς ἡμέραις ὕστερον ἦλθεν ἐξ (1)
Ἀθηνῶν Θυμοχάρης ἔχων ναῦς ὀλίγας· καὶ εὐθύς ἐναυμά-
χησαν αὐθις Λακεδαιμόνιοι καὶ Ἀθηναῖοι, ἐνίκησαν δὲ
(2) Λακεδαιμόνιοι ἡγουμένου Ἀγησανδρίδου. μετ' ὀλίγον δὲ
τούτων Δωριεὺς ὁ Διαγόρου ἐκ Ρόδου εἰς Ἑλλάσποντον
εἰσέπλει ἀρχομένου χειμῶνος τέτταρσι καὶ δέκα ναυσὶν ἅμα
ἡμέρα. κατιδὼν δὲ ὁ τῶν Ἀθηναίων ἡμεροσκόπος ἐσήμηνε
τοῖς στρατηγοῖς. οἱ δὲ ἀνηγάγοντο ἐπ' αὐτὸν εἴκοσι ναυσὶν, (5)
ἃς ὁ Δωριεὺς φυγῶν πρὸς τὴν γῆν ἀνεβίβαζε τὰς αὐτοῦ
(3) τριήρεις, ὡς ἦνοιγε, περὶ τὸ Ροίτειον. ἐγγὺς δὲ γενομένων
τῶν Ἀθηναίων ἐμάχοντο ἀπὸ τε τῶν νεῶν καὶ τῆς γῆς μέχρι
οἱ Ἀθηναῖοι ἀπέπλευσαν εἰς Μάδυτον πρὸς τὸ ἄλλο στρατό-
(4) πεδον οὐδὲν πράξαντες. Μίνδαρος δὲ κατιδὼν τὴν μάχην
ἐν Ἰλίῳ θύων τῇ Ἀθηνᾷ, ἐβοήθει ἐπὶ τὴν θάλατταν, καὶ
καθεικύσας τὰς ἑαυτοῦ τριήρεις ἀπέπλει, ὅπως ἀναλάβοι τὰς
(5) μετὰ Δωριέως. οἱ δὲ Ἀθηναῖοι ἀνταναγαγόμενοι ἐναυμά-
χησαν περὶ Ἄβυδον κατὰ τὴν ἡόνα, μέχρι δεΐλης ἐξ ἑωθινοῦ.
καὶ τὰ μὲν νικῶντων, τὰ δὲ νικωμένων, Ἀλκιβιάδης ἐπεισπλεῖ @1
(6) δυοῖν δεούσαις εἴκοσι ναυσὶν. ἐντεύθεν δὲ φυγῇ τῶν Πελο-

- Cite this Work

E.C. Marchant, *Xenophontis opera omnia*, vol. 1, Oxford: Clarendon Press, 1900 (repr. 1968)
Retrieved from: <http://stephanus.tlg.uci.edu/Iris/Cite?0032:001:0>

+ Translation

- Morphological Analysis and Lexica

Word Form: **Ἀγησανδρίδου** 🔍

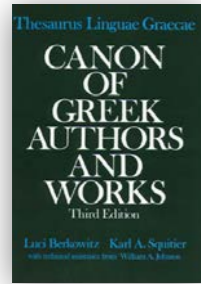
- Lemma: Ἀγησανδρίδας, -α, ὁ 🔍 📖
Agesandridas

Possible analyses:
Noun masc gen sg [doric]

Show entry in:
+ DGE
+ Smith (Biogr.) s.v. AGESANDRIDAS

{tlg0032.001.1.1.1}

<http://stephanus.tlg.uci.edu/canon.php>



TLG Canon of Greek Authors and Works

1. **AESCHYLUS Trag. {0085}**
6-5 B.C.
Trag.
Atheniensis
 Cross Reference
• Scholia et vitae: Cf. SCHOLIA IN AESCHYLUM {5010}

5. **Persae {0085.012}** (Click to select) [↗](#)

Trag.

D.L. Page, *Aeschyli Septem Quae Supersunt Tragoedias*, Oxford: Clarendon Press, 1972: 3-41.

Word Count: 5,470

Other Edition

Persae {0085.002} [↗](#)

G. Murray, *Aeschyli tragoediae*, 2nd edn., Oxford: Clarendon Press, 1955 (repr. 1960): 53-95.

Cross Reference

6. **Septem contra Thebas {0085.013}** (Click to select) [↗](#)

Trag.

D.L. Page, *Aeschyli Septem Quae Supersunt Tragoedias*, Oxford: Clarendon Press, 1972: 45-87.

Word Count: 5,346

Other Edition

Septem contra Thebas {0085.004} [↗](#)

G. Murray, *Aeschyli tragoediae*, 2nd edn., Oxford: Clarendon Press, 1955 (repr. 1960): 155-200.

Cross Reference

• Scholia et vitae: Cf. SCHOLIA IN AESCHYLUM {5010}

7. **Supplices {0085.014}** (Click to select) [↗](#)

Trag.

D.L. Page, *Aeschyli Septem Quae Supersunt Tragoedias*, Oxford: Clarendon Press, 1972: 91-133.

Word Count: 5,242

Other Edition

Supplices {0085.001} [↗](#)

G. Murray, *Aeschyli tragoediae*, 2nd edn., Oxford: Clarendon Press, 1955 (repr. 1960): 3-48.

Cross Reference

• Scholia et vitae: Cf. SCHOLIA IN AESCHYLUM {5010}

8. **Agamemnon {0085.015}** (Click to select) [↗](#)

Trag.

D.L. Page, *Aeschyli Septem Quae Supersunt Tragoedias*, Oxford: Clarendon Press, 1972: 139-198.

Word Count: 8,480

Other Edition

Agamemnon {0085.005} [↗](#)

G. Murray, *Aeschyli tragoediae*, 2nd edn., Oxford: Clarendon Press, 1955 (repr. 1960): 207-274.

Cross Reference

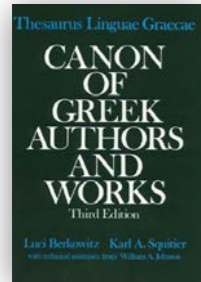
• Scholia et vitae: Cf. SCHOLIA IN AESCHYLUM {5010}

9. **Choephoroe {0085.016}** (Click to select) [↗](#)

Trag.

D.L. Page, *Aeschyli Septem Quae Supersunt Tragoedias*, Oxford: Clarendon Press, 1972: 201-244.

Word Count: 5,608



TLG Canon of Greek Authors and Works

PARALLEL BROWSING

AESCHYLUS {0085}

Persae {012} (Page, D.L.)

Lines: 20

Display: Greek

Links: Active

Select: Compare editions

Show Texts

AESCHYLUS {0085}

Persae {002} (Murray, G.)

Text Structure

Text Structure A | A | A

Line t GO

Prev | Next

Line t GO

Prev | Next

« Jump »

AESCHYLUS, *Persae*. {0085.012}

ΠΕΡΣΑΙ

ΧΟΡΟΣ **τάδε** μὲν Περσῶν τῶν οἰχομένων (1)
Ἑλλάδ' ἐς αἶαν πιστὰ καλεῖται,
καὶ τῶν ἀφνεῶν καὶ πολυχρύσων
ἐδράνων φύλακες κατὰ πρεσβείαν
οὐς αὐτὸς ἀναξ Ξέρξης βασιλεὺς (5)
Δαρειογενῆς
εἴλετο χώρας **έφορεύειν**.
ἀμφὶ δὲ νόστῳ τῷ βασιλείῳ
καὶ πολυχρύσου στρατιάς ἤδη
κακόμαντις ἄγαν ὀρσολοπεῖται (10)
θυμὸς **έσωθεν**.
πάσα γὰρ ἰσχὺς Ἀσιατογενῆς
ὠίχωκεν, ἐὼν δ' ἄνδρα βαύζει
... (13,bis)
κοῦτε τις ἄγγελος οὔτε τις ἰππεὺς (14)
ἄστῳ τὸ Περσῶν **ἀφικνεῖται**, (15)
οἶτε τὸ Σούσων ἠδ' Ἀγβατάνων
καὶ τὸ παλαιὸν Κίσιον ἔρκος
προλιπόντες ἔβαν, τοὶ μὲν ἐφ' ἵππων,
οἱ δ' ἐπὶ ναῶν, πεζοὶ τε βάδην

Prev | Next

Line t GO

AESCHYLUS, *Persae*. {0085.002}

ΠΕΡΣΑΙ

ΧΟΡΟΣ (1)

Τάδε μὲν Περσῶν τῶν οἰχομένων (1)
Ἑλλάδ' ἐς αἶαν πιστὰ καλεῖται,
καὶ τῶν ἀφνεῶν καὶ πολυχρύσων
ἐδράνων φύλακες, κατὰ πρεσβείαν
οὐς αὐτὸς ἀναξ Ξέρξης βασιλεὺς (5)
Δαρειογενῆς
εἴλετο χώρας **έφορεύειν**.
ἀμφὶ δὲ νόστῳ τῷ βασιλείῳ
καὶ πολυχρύσου στρατιάς ἤδη
κακόμαντις ἄγαν ὀρσολοπεῖται (10)
θυμὸς **έσωθεν**.
πάσα γὰρ ἰσχὺς Ἀσιατογενῆς
οἴχωκε, **νέον** δ' ἄνδρα βαύζει,
κοῦτε τις ἄγγελος οὔτε τις ἰππεὺς
ἄστῳ τὸ Περσῶν **ἀφικνεῖται**, (15)
οἶτε τὸ Σούσων ἠδ' Ἀγβατάνων
καὶ τὸ παλαιὸν Κίσιον ἔρκος
προλιπόντες ἔβαν, τοὶ μὲν ἐφ' ἵππων,
τοὶ δ' ἐπὶ ναῶν, πεζοὶ τε βάδην

Prev | Next

Line t GO



Perseus Catalog

Xenophon

Textgroups: [tlg0032](#)

[tlg1754](#)

CITE id: [urn:cite:perseus:author.1499](#)

Tlg id: [tlg0032](#)

Alt id: LCCN n 80036673

Name: Xenophon

Abbr: X.

Work Information

URN: [urn:cts:greekLit:tlg0032.tlg001](#)

Work title: Hellenica

Textgroup: [tlg0032](#)

Author: [Xenophon](#)

Editions of this Work, Click to Expand

[Hellenica, Historia Graeca](#)

[Hellenica, Xenophon, Hellenica, Vol 1](#)

[Hellenica, Xenophontis Opera omnia, Volume I, Historia Graeca;Hellenica](#)

[Hellenica, Xenophontis Opera omnia, Volume I, Historia Graeca](#)

[Hellenica, Xenophōntos Hellēnika;Hellenica](#)

Translations of this Work, Click to Expand

[Hellenica, The, Cyropaedia, or, Institution of Cyrus, and the Hellenics, or Grecian history](#)

[Hellenica, The, Greek historians, The complete and unabridged historical works of Herodotus, Volume II](#)

[Hellenica, Xenophon, Hellenica, Vol 1](#)

[Hellenica, Xenophon in Seven Volumes, Vol 1 and Vol 2](#)

[Hellenica, Xenophon's Hellenics, books I-IV, and the Banquet](#)

[urn:cts:greekLit:tlg0032.tlg001](#)

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Perseus Catalog

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Author: **Xenophon**

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Hellenica, Historia Graeca

Hellenica, Xenophon, Hellenica, Vol 1

Hellenica, Xenophontis Opera omnia, Volume I, Historia Graeca;Hellenica

Hellenica, Xenophontis Opera omnia, Volume I, Historia Graeca

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Hellenica, The, Cyropaedia, or, Institution of Cyrus, and the Hellenics, or Grecian history

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urn:cts:greekLit:tlg0032.tlg001

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Perseus Catalog

Xenophon, Hellenica

Hellenica

Book 1 Chapter 1 Section 1 to Book 1 Chapter 1 Section 5 (1.1.1– 1.1.5)

add parallel version

- 1 1 1
μετά δὲ ταῦτα οὐ πολλαῖς ἡμέραις ὕστερον ἦλθεν ἐξ Ἀθηνῶν
Θυμοχάρης ἔχων ναῦς ὀλίγας· καὶ εὐθύς ἐναυμάχησαν αὐθις
Λακεδαιμόνιοι καὶ Ἀθηναῖοι, ἐνίκησαν δὲ Λακεδαιμόνιοι ἡγουμένου
Ἀγησανδρίδου.
- 2 μετ' ὀλίγον δὲ τούτων Δωριεὺς ὁ Διαγόρου ἐκ Πόδου εἰς Ἑλλάσποντον
εἰσέπλει ἀρχομένου χειμῶνος τέτταρσι καὶ δέκα ναυσὶν ἅμα ἡμέρα.
κατιδῶν δὲ ὁ τῶν Ἀθηναίων ἡμεροσκόπος ἐσήμηνε τοῖς στρατηγοῖς.
οἱ δὲ ἀνηγάγοντο ἐπ' αὐτὸν εἴκοσι ναυσὶν, ἃς ὁ Δωριεὺς φυγῶν πρὸς
τὴν γῆν ἀνεβίβαζε τὰς αὐτοῦ τριήρεις, ὡς ἤνοιγε, περὶ τὸ Ροίτειον.
- 3 ἐγγὺς δὲ γενομένων τῶν Ἀθηναίων ἐμάχοντο ἀπὸ τε τῶν νεῶν καὶ
τῆς γῆς μέχρι οἱ Ἀθηναῖοι ἀπέπλευσαν εἰς Μάδυτον πρὸς τὸ ἄλλο
στρατόπεδον οὐδὲν πράξαντες.
- 4 Μίνδαρος δὲ κατιδῶν τὴν μάχην ἐν Ἰλίῳ θύων τῇ Ἀθηνᾶ, ἐβοήθει ἐπὶ
τὴν θάλατταν, καὶ καθελκύσας τὰς ἑαυτοῦ τριήρεις ἀπέπλει, ὅπως
ἀναλάβοι τὰς μετὰ Δωριέως.
- 5 οἱ δὲ Ἀθηναῖοι ἀνταναγαγόμενοι ἐναυμάχησαν περὶ Ἄβυδον κατὰ τὴν
ἡῶνα, μέχρι δειλῆς ἐξ ἑωθινοῦ. καὶ τὰ μὲν νικῶντων, τὰ δὲ
νικωμένων, Ἀλκιβιάδης ἐπεισπλεῖ δυοῖν δεούσαις εἴκοσι ναυσὶν.

CTS URN

urn:cts:greekLit:tlg0032.tlg001.perseus-grc2:1.1.1-1.1.5

TEXT MODE

NORMAL HIGHLIGHT
click and shift-click on words to highlight

TEXT SIZE

Aa Aa Aa Aa Aa

TEXT WIDTH

Narrow Normal Wide

HIGHLIGHT

@Ἀγησανδρίδου[1]

EXPORT PASSAGE

as text or xml

MORPHOLOGY

Ἀγησανδρίδας noun 1st
Ἀγησανδριδ-ου genitive singular masculine (Doric Aeolic)

WORD LIST

Number in parentheses is frequency per 10k in this work.

CHS COMMENTARY

No comments found.

urn:cts:greekLit:tlg0032.tlg001.perseus-grc2:1.1.1@Ἀγησανδρίδου[1]

<https://scaife.perseus.org/reader/urn:cts:greekLit:tlg0032.tlg001.perseus-grc2:1.1.1-1.1.5/>

The CITE Architecture Technology-independent, machine-actionable citation of scholarly resources

About the CITE architecture

Background

The CITE architecture defines a framework for scholarly reference to the unique cultural phenomena that humanists study. Christopher Blackwell and Neel Smith originally developed the CITE architecture to meet the needs of the [Homer Multitext project](#). Together with the co-editors of the project, Casey Dué and Mary Ebbott, we recognized the need for an architecture that would outlive specific, rapidly changing technologies, while at the same time thoroughly capturing the semantics of our work in a machine-actionable format.

We were surprised to find that, despite the centuries-long tradition in disciplines like classical studies of citing texts by canonical reference, this experience had not been generalized in the digital humanities community. Even the most forward-looking digital projects a decade ago were relying on textual references that failed to represent the semantics implicit in conventional canonical citation, and were expressed in notations such as URLs that, while machine-actionable today, were closely tied to specific ephemeral technologies. We began work on the [Canonical Text Service protocol](#) (CTS), and eventually devised the [CTS URN notation](#) for citing texts. We subsequently applied this scheme – URN notation for citation, a RESTful service for retrieval of material identified by URN, and client software that talks to the service – to *all* the material in the HMT project: texts, physical artifacts like manuscripts, documentary objects like photographs, and analytical objects such as morphological analyses of texts.

Components of the CITE architecture

The CITE architecture comprises:

1. standards for citing scholarly resources with a technology-independent but machine actionable URN notation
2. APIs for services to retrieve scholarly resources identified with the CITE architecture's URN notation
3. some code libraries for working with URN notation, and the CITE services

Why?

- [Why should “digital humanities” start from citation?](#)
- [Why URNs?](#)

- [the CITE architecture](#)
- working with **texts**:
 - an abstract model: [OHCO2](#)
 - a notation for citation: [CTS URNs](#)
 - services to retrieve canonical citations: the [Canonical Text Service](#)
- working with **objects**:
 - an abstract model: [CITE2 collections](#)
 - a notation for citation: [CITE2 Object URNs](#)
 - services to retrieve canonical citations (including extensions): [CITE Collection Service](#)
- an overview of [citable data models](#)

<http://cite-architecture.org/>

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<http://cite-architecture.org/>

urn : cts : greekLit : tlg0008 . tlg001 . berti : 1.5
 namespaces Athenaeus Deipnosophistae edition citation
 cts-urn

URN	Identifies...
urn:cts:greekLit:tlg0008.tlg001.berti:1	<i>Deipnosophistae</i> , Book 1
urn:cts:greekLit:tlg0008.tlg001.berti:1.18	<i>Deipnosophistae</i> , Book 1, Paragraph 18
urn:cts:greekLit:tlg0008.tlg001.berti:1.18-1.19	<i>Deipnosophistae</i> , 1.18 through 1.19
urn:cts:greekLit:tlg0008.tlg001.berti:1.18-2	<i>Deipnosophistae</i> , 1.18 through (all of) Book 2
urn:cts:greekLit:tlg0008.tlg001.berti:1.18@καὶ[17]	<i>Deipnosophistae</i> , the 17th instance of καὶ in 1.18
urn:cts:greekLit:tlg0008.tlg001.berti:1.18@καὶ [17]-1.18@αὐτοὶ[1]	<i>Deipnosophistae</i> , a range of text within 1.18

urn : cts : greekLit : tlg0008 . tlg001 . berti : 1.5
 namespaces Athenaeus Deipnosophistae edition citation
 cts-urn

URN	Identifies...
urn:cts:greekLit:tlg0008.tlg001.berti:1	<i>Deipnosophistae</i> , Book 1
urn:cts:greekLit:tlg0008.tlg001.berti:1.18	<i>Deipnosophistae</i> , Book 1, Paragraph 18
urn:cts:greekLit:tlg0008.tlg001.berti:1.18-1.19	<i>Deipnosophistae</i> , 1.18 through 1.19
urn:cts:greekLit:tlg0008.tlg001.berti:1.18-2	<i>Deipnosophistae</i> , 1.18 through (all of) Book 2
urn:cts:greekLit:tlg0008.tlg001.berti:1.18@καὶ[17]	<i>Deipnosophistae</i> , the 17th instance of καὶ in 1.18
urn:cts:greekLit:tlg0008.tlg001.berti:1.18@καὶ [17]-1.18@αὐτοὶ[1]	<i>Deipnosophistae</i> , a range of text within 1.18

3

Data Entry and Analysis for Classical Philology

Optical Character Recognition (OCR)

Lace: Visualizing, Editing and Searching Polylingual OCR Results

ARISTOTLE

802 a δὲ ἢ φορὰ γίνεταί κατὰ τὴν εὐθυπορίαν, φανερόν
ἔστιν ἐπὶ τῶν ἰσίων καὶ ὄλως ἐπὶ τῶν ξύλων τῶν
μεγάλων, ὅταν αὐτὰ βασανίζωσιν. ὅταν γὰρ κρού-
σωσιν ἐκ τοῦ ἑτέρου ἄκρου, κατὰ τὸ ἕτερον ὁ ἦχος
φέρεται συνεχῆς, εἰ μὴ τι ἔχη σύντριμμα τὸ ξύλον·
85 εἰ δὲ μὴ, μέχρι τούτου προελθὼν αὐτοῦ κατα-
παύεται διασπασθεῖς. περικάμπει δὲ καὶ τοὺς ὄζους,
καὶ οὐ δυνατὸς δι' αὐτῶν εὐθυπορεῖν. κατάδηλον
δὲ τοῦτό ἐστι καὶ ἐπὶ τῶν χαλκείων, ὅταν ῥινῶσι
τὰς ἀπηρητημένας στολίδας τῶν ἀνδριάντων ἢ τὰ
πτερυγία, τῷ συμμύειν· διὸ ῥοίζον καὶ πολὺν ἦχον
40 ἀφιασι καὶ ψόφον. ἂν δέ τις αὐτὰ ταινία διαδήση,
παύεσθαι συμβαίνει τὸν ἦχον· ἕως γὰρ τούτου
προελθὼν ὁ τρόμος, ὅταν προσκόψῃ πρὸς τὸ μαλα-
802 b κόν, αὐτοῦ ποιεῖται τὴν κατάπαυσιν.

Πολὺ δὲ καὶ ἡ ὀπτησις ἢ τῶν κεράτων συμ-
βάλλεται καὶ πρὸς εὐφωνίαν. μᾶλλον μὲν γὰρ κατ-
οπτηθέντα παραπλήσιον τὸν ἦχον ἔχουσι τῷ κεράμῳ
διὰ τὴν σκληρότητα καὶ τὴν σύγκαυσιν· εἰ μὴ τις
5 αὐτὰ καταδέεστερον ὀπτήσῃ, ἀπαλώτερον μὲν ἀφί-
ησι διὰ τὴν μαλακότητα τὸν ἦχον, οὐ δύναται δὲ
γεγωνεῖν ὁμοίως. διὸ καὶ τὰς ἡλικίας ἐκλέγονται·
τὰ μὲν γὰρ τῶν γερόντων ἐστὶ ξηρὰ καὶ πεπωρω-
μένα καὶ χαῦνα, τὰ δὲ τῶν νέων ἀπαλὰ παντελῶς
10 καὶ πολλὴν ἔχοντα ἐν αὐτοῖς ὑγρασίαν. δεῖ δὲ
εἶναι, καθάπερ εἴρηται, τὸ κέρας ξηρὸν καὶ πυκνὸν
ὁμαλῶς καὶ εὐθύπορον καὶ λεῖον. οὕτω γὰρ ἂν
μάλιστα συμβαίνοι καὶ τοὺς ἦχους πυκνοὺς καὶ
λείους καὶ ὁμαλοὺς φέρεσθαι δι' αὐτῶν, καὶ τοῦ
ἔξωθεν ἀέρος τὰς πληγὰς γίνεσθαι τοιαύτας, ἐπεὶ
15 καὶ τῶν χορδῶν εἰσὶν αἱ λειόταται βέλτισται καὶ
τοῖς πᾶσιν ὁμαλώταται, καὶ τὴν κατεργασίαν ἔχουσι
64

Aristotle (). Minor Works Vol. 1.

-20 -5 Previous 22 Next +5 +20

ARISTOTLE.

802 a.

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64

Character Encoding

Decimal	Hexadecimal	Binary	Octal	Char	Decimal	Hexadecimal	Binary	Octal	Char	Decimal	Hexadecimal	Binary	Octal	Char
0	0	0	0	[NULL]	48	30	110000	60	0	96	60	1100000	140	`
1	1	1	1	[START OF HEADING]	49	31	110001	61	1	97	61	1100001	141	a
2	2	10	2	[START OF TEXT]	50	32	110010	62	2	98	62	1100010	142	b
3	3	11	3	[END OF TEXT]	51	33	110011	63	3	99	63	1100011	143	c
4	4	100	4	[END OF TRANSMISSION]	52	34	110100	64	4	100	64	1100100	144	d
5	5	101	5	[ENQUIRY]	53	35	110101	65	5	101	65	1100101	145	e
6	6	110	6	[ACKNOWLEDGE]	54	36	110110	66	6	102	66	1100110	146	f
7	7	111	7	[BELL]	55	37	110111	67	7	103	67	1100111	147	g
8	8	1000	10	[BACKSPACE]	56	38	111000	70	8	104	68	1101000	150	h
9	9	1001	11	[HORIZONTAL TAB]	57	39	111001	71	9	105	69	1101001	151	i
10	A	1010	12	[LINE FEED]	58	3A	111010	72	:	106	6A	1101010	152	j
11	B	1011	13	[VERTICAL TAB]	59	3B	111011	73	;	107	6B	1101011	153	k
12	C	1100	14	[FORM FEED]	60	3C	111100	74	<	108	6C	1101100	154	l
13	D	1101	15	[CARRIAGE RETURN]	61	3D	111101	75	=	109	6D	1101101	155	m
14	E	1110	16	[SHIFT OUT]	62	3E	111110	76	>	110	6E	1101110	156	n
15	F	1111	17	[SHIFT IN]	63	3F	111111	77	?	111	6F	1101111	157	o
16	10	10000	20	[DATA LINK ESCAPE]	64	40	1000000	100	@	112	70	1110000	160	p
17	11	10001	21	[DEVICE CONTROL 1]	65	41	1000001	101	A	113	71	1110001	161	q
18	12	10010	22	[DEVICE CONTROL 2]	66	42	1000010	102	B	114	72	1110010	162	r
19	13	10011	23	[DEVICE CONTROL 3]	67	43	1000011	103	C	115	73	1110011	163	s
20	14	10100	24	[DEVICE CONTROL 4]	68	44	1000100	104	D	116	74	1110100	164	t
21	15	10101	25	[NEGATIVE ACKNOWLEDGE]	69	45	1000101	105	E	117	75	1110101	165	u
22	16	10110	26	[SYNCHRONOUS IDLE]	70	46	1000110	106	F	118	76	1110110	166	v
23	17	10111	27	[ENG OF TRANS. BLOCK]	71	47	1000111	107	G	119	77	1110111	167	w
24	18	11000	30	[CANCEL]	72	48	1001000	110	H	120	78	1111000	170	x
25	19	11001	31	[END OF MEDIUM]	73	49	1001001	111	I	121	79	1111001	171	y
26	1A	11010	32	[SUBSTITUTE]	74	4A	1001010	112	J	122	7A	1111010	172	z
27	1B	11011	33	[ESCAPE]	75	4B	1001011	113	K	123	7B	1111011	173	{
28	1C	11100	34	[FILE SEPARATOR]	76	4C	1001100	114	L	124	7C	1111100	174	|
29	1D	11101	35	[GROUP SEPARATOR]	77	4D	1001101	115	M	125	7D	1111101	175	}
30	1E	11110	36	[RECORD SEPARATOR]	78	4E	1001110	116	N	126	7E	1111110	176	~
31	1F	11111	37	[UNIT SEPARATOR]	79	4F	1001111	117	O	127	7F	1111111	177	[DEL]
32	20	100000	40	[SPACE]	80	50	1010000	120	P					
33	21	100001	41	!	81	51	1010001	121	Q					
34	22	100010	42	"	82	52	1010010	122	R					
35	23	100011	43	#	83	53	1010011	123	S					
36	24	100100	44	\$	84	54	1010100	124	T					
37	25	100101	45	%	85	55	1010101	125	U					
38	26	100110	46	&	86	56	1010110	126	V					
39	27	100111	47	'	87	57	1010111	127	W					
40	28	101000	50	(	88	58	1011000	130	X					
41	29	101001	51	)	89	59	1011001	131	Y					
42	2A	101010	52	*	90	5A	1011010	132	Z					
43	2B	101011	53	+	91	5B	1011011	133	[
44	2C	101100	54	,	92	5C	1011100	134	\					
45	2D	101101	55	-	93	5D	1011101	135]					
46	2E	101110	56	.	94	5E	1011110	136	^					
47	2F	101111	57	/	95	5F	1011111	137	_					

Beta Code

Alpha	A	Nu	N
Beta	B	Xi	C
Gamma	G	Omicron	O
Delta	D	Pi	P
Epsilon	E	Rho	R
Zeta	Z	Sigma	S
Eta	H	Tau	T
Theta	Q	Upsilon	U
Iota	I	Phi	F
Kappa	K	Chi	X
Lambda	L	Psi	Y
Mu	M	Omega	W
Smooth breathing	)	Period	.
Rough breathing	(	Apostrophe	,
Acute	/	Colon	:
Grave	\	Question Mark	;
Circumflex	=	Hyphen	-
Iota subscript	|	Dash	—

Uppercase Letters

- To type uppercase letters, prefix each letter with an asterisk, *. E.g. *P*L*A*T*W*N

Diacritics

- On lowercase letters these are keyed in the order: (1) letter, (2) breathing, (3) accent, (4) iota subscript. E.g. W(=|
- On uppercase letters these are keyed in the order: (1) asterisk, (2) breathing, (3) accent, (4) letter, (5) iota subscript. E.g. *(=W|

Beta Code → Unicode

The TLG[®] Beta Code Manual

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Unicode 12.1 Character Code Charts

SCRIPTS | SYMBOLS & PUNCTUATION | NAME INDEX

Find chart by hex code: Go [Help](#) [Conventions](#) [Terms of Use](#)

Scripts

European Scripts	African Scripts	South Asian Scripts	Indonesia & Oceania Scripts
Armenian	Adlam	Ahom	Balinese
Armenian Ligatures	Bamum	Bengali and Assamese	Batak
Carian	Bamum Supplement	Bhaiksuki	Buginese
Caucasian Albanian	Bassa Vah	Brahmi	Buhid
Cypriot Syllabary	Coptic	Chakma	Hanunoo
Cyrillic	Coptic in Greek block	Devanagari	Javanese
Cyrillic Supplement	Coptic Epact Numbers	Devanagari Extended	Makasar
Cyrillic Extended-A	Egyptian Hieroglyphs (1MB)	Dogra	Rejang
Cyrillic Extended-B	Egyptian Hieroglyph Format Controls	Grantha	Sundanese
Cyrillic Extended-C	Ethiopic	Gujarati	Sundanese Supplement
Elbasan	Ethiopic Supplement	Gunjala Gondi	Tagalog
Georgian	Ethiopic Extended	Gurmukhi	Tagbanwa
Georgian Extended	Ethiopic Extended-A	Kaithi	East Asian Scripts
Georgian Supplement	Medefaidrin	Kannada	Bopomofo
Glagolitic	Mende Kikakui	Kharoshthi	Bopomofo Extended
Glagolitic Supplement	Meroitic	Khोजki	CJK Unified Ideographs (Han) (35MB)
Gothic	Meroitic Cursive	Khudawadi	CJK Extension-A (6MB)
Greek	Meroitic Hieroglyphs	Lepcha	CJK Extension B (40MB)
Greek Extended	N'Ko	Limbu	CJK Extension C (3MB)
Ancient Greek Numbers	Osmanya	Mahajani	CJK Extension D
Latin	Tifinagh	Malayalam	CJK Extension E (3.5MB)
Basic Latin (ASCII)	Vai	Masaram Gondi	CJK Extension F (4MB)
Latin-1 Supplement	Middle Eastern Scripts	Meetei Mayek	(see also Uihan Database)
Latin Extended-A	Anatolian Hieroglyphs	Meetei Mayek Extensions	CJK Compatibility Ideographs
Latin Extended-B	Arabic	Modi	CJK Compatibility Ideographs Supplement
Latin Extended-C	Arabic Supplement	Mro	CJK Radicals / KangXi Radicals
Latin Extended-D	Arabic Extended-A	Multani	CJK Radicals Supplement
Latin Extended-E	Arabic Presentation Forms-A	Nandinagari	CJK Strokes
Latin Extended Additional	Arabic Presentation Forms-B	Newa	Ideographic Description Characters
Latin Ligatures	Aramaic, Imperial	Oi Chiki	Hangul Jamo
Fullwidth Latin Letters	Avestan	Oriya (Odia)	Hangul Jamo Extended-A
IPA Extensions	Cuneiform (1MB)	Saurashtra	Hangul Jamo Extended-B
Phonetic Extensions	Cuneiform Numbers and Punctuation	Sharada	Hangul Compatibility Jamo
Phonetic Extensions Supplement	Early Dynastic Cuneiform	Siddham	Halfwidth Jamo
Linear A	Old Persian	Sinhala	Hangul Syllables
Linear B	Ugaritic	Sinhala Archaic Numbers	Hiragana
Linear B Syllabary	Elymaic	Sora Sompeng	Kana Extended-A
Linear B Ideograms	Hatran	Syloti Nagri	Kana Supplement
Aegean Numbers	Hebrew	Takri	Small Kana Extension
Lycian	Hebrew Presentation Forms	Tamil	Kanbun
Lydian	Mandaic	Tamil Supplement	Katakana
Ogham	Nabataean	Telugu	Katakana Phonetic Extensions
Old Hungarian	Old North Arabian	Thaana	Halfwidth Katakana
Old Italic	Old South Arabian	Tirhuta	Lisu
Old Permic	Pahlavi, Inscriptional	Vedic Extensions	Miao
Phaistos Disc	Pahlavi, Psalter	Wancho	Nushu
Runic	Palmyrene	Warang Citi	

Unicode 12.0: 137,929 characters

Character Encoding

3. Ἀφ' οὗ δίκη Ἀθήνησι[ν
ἐγένετο Ἄρει καὶ Ποσειδῶνι
ὑπὲρ Ἀλιόροθίου τοῦ
Ποσειδῶνος, καὶ ὁ τόπος
ἐκλήθη Ἄρειος πάγος, ἔτη
XHH⁰¹⁰₁₄₉ΔΓΙΙΙ, βασιλεύοντος
Ἀθηνῶν Κρ[ανα]οῦ.

Marmor Parium A 3

XHH^ΔΔΓΙΙΙ
=
1268
=
(1531/30 BC)

X = 1000
H = 100
Γ = 5
Δ = 10
I = 1

Character Encoding

Ἄφ' οὗ δίκη Ἀθήνησι[ν
ἐγένετο Ἄρει καὶ Ποσειδῶνι
ὑπὲρ Ἀλιόροθίου τοῦ
3. Ποσειδῶνος, καὶ ὁ τόπος
ἐκλήθη Ἄρειος πάγος, ἔτη
XHH¹⁰¹⁴⁴ΔΓΙΙΙ, βασιλεύοντος
Ἀθηνῶν Κρ[ανα]οῦ.

Marmor Parium A 3

$$\begin{aligned} & \text{XHH}\Gamma\Delta\Gamma\text{III} \\ & = \\ & 1268 \\ & = \\ & (1531/30 \text{ BC}) \end{aligned}$$

$$\begin{aligned} \text{X} &= 1000 \\ \text{H} &= 100 \\ \Gamma &= 5 \\ \Delta &= 10 \\ \text{I} &= 1 \end{aligned}$$

10144 Γ GREEK ACROPHONIC ATTIC FIFTY

Character Encoding

Combining Characters

The relevant Combining Diacritical Marks in the 0300–036F range are:

code	char	name	category	combining	decomposition
U+0300	◌̀	COMBINING GRAVE ACCENT	Mn	230	
U+0301	◌́	COMBINING ACUTE ACCENT	Mn	230	
U+0304	◌̄	COMBINING MACRON	Mn	230	
U+0306	◌̆	COMBINING BREVE	Mn	230	
U+0308	◌̈	COMBINING DIAERESIS	Mn	230	
U+0313	◌͂	COMBINING COMMA ABOVE	Mn	230	
U+0314	◌̓	COMBINING REVERSED COMMA ABOVE	Mn	230	
U+0342	◌͂	COMBINING GREEK PERISPOMENI	Mn	230	
U+0343	◌͂	COMBINING GREEK KORONIS	Mn	230	0313
U+0344	◌͂	COMBINING GREEK DIALYTIKA TONOS	Mn	230	0308 0301
U+0345	◌͂	COMBINING GREEK YPOGEGRAMMENI	Mn	240	

Note that there is a COMBINING CIRCUMFLEX ACCENT at U+0302 but that's, not what we think of as a circumflex. In Greek we use U+0342, the COMBINING GREEK PERISPOMENI.

Precomposed versus Decomposed Characters

An alpha with smooth breathing (or *psili*) is available at U+1F00 but it's also possible with U+03B1 and U+0313.

U+1F00	ᾀ	GREEK SMALL LETTER ALPHA WITH PSILI	Ll	0	03B1 0313
U+03B1	α	GREEK SMALL LETTER ALPHA	Ll	0	
U+0313	◌͂	COMBINING COMMA ABOVE	Mn	230	

U+1F00 is referred to as *precomposed* and its decomposition is U+03B1 U+0313.

Character Encoding

ᾶ

pre-composed form: U+1F04 1F04 ᾶ GREEK SMALL LETTER ALPHA WITH PSILI AND
OXIA

is canonically equivalent to

U+03B1

GREEK SMALL LETTER ALPHA

U+0313

COMBINING COMMA ABOVE

U+0301

COMBINING ACUTE ACCENT

(canonical decomposition of U+1F04)

✦ The Classical Language Toolkit

<http://cltk.org/>

☐ Greek

- Alphabet
- Accentuation and diacritics
- Converting Beta Code to Unicode
- Converting TLG texts with TLGU
- Corpus Readers
- Information Retrieval
- Lemmatization
- Lemmatization, backoff method
- Named Entity Recognition
- Normalization
- ⊕ POS tagging
- Prosody Scanning
- Sentence Tokenization
- Stopword Filtering
- Swadesh
- TEI XML
- Text Cleanup
- TLG Indices
- Transliteration
- Word Tokenization
- Word2Vec

☐ Latin

- Corpus Readers
- Clausulae Analysis
- Converting J to I, V to U
- Converting PHI texts with TLGU
- Information Retrieval
- Declining
- Lemmatization
- Lemmatization, backoff method
- Line Tokenization
- Macronizer
- Making POS training sets
- Named Entity Recognition
- PHI Indices
- ⊕ POS tagging
- Prosody Scanning
- ⊕ Scansion of Poetry
- Semantics
- Sentence Tokenization
- Semantics
- Stemming
- Stoplist Construction
- Stopword Filtering
- Swadesh
- Syllabifier
- Text Cleanup
- Transliteration
- Word Tokenization
- Word2Vec

✦ The Classical Language Toolkit

<http://cltk.org/>

	Akkadian	Arabic	Bengali	Chinese	Classical Hindi	Coptic	Egyptian	Greek	Gujarati	Hebrew	Javanese	Latin	Malayalam	Marathi	Middle English	Middle High German	Middle Low German	Odia	Old Church Slavonic	Old English	Old French	Old Norse	Old Swedish	Pali	Persian	Prakrit	Punjabi	Sanskrit	Telugu	Tibetan	Urdu
Corpora	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Stoplist	•	•			•		•					•		•	•					•	•	•					•	•			
Sentence Tokenizer							•					•									•										
Word Tokenizer	•	•					•					•		•	•					•	•							•			
Stemmer	•											•		•	•					•								•			
Lemmatizer							•					•									•										
POS Tagger							•					•				•				•		•									
Prosody Tagger							•					•			•							•									
NER							•					•									•										

P.J. Burns, “Building a Text Analysis Pipeline for Classical Languages”, in M. Berti (ed.), *Digital Classical Philology. Ancient Greek and Latin in the Digital Revolution*. Age of Access? Grundfragen der Informationsgesellschaft 10. Berlin and Boston: De Gruyter 2019, pp. 159-176

Text Alignment

Book 1

Paragraph
5

τοιούτους ἔδει καὶ τοὺς λοιποὺς εἶναι πλείους ὡς τοῖς γε μὴ τοῦτο ποιοῦσιν ἐρεῖ τις τί μικρολόγος εἶ; — πλεῖαί τοι οἴνου κλισίαι· δαίνου δαῖτα γέρουσι θάλειαν· εἰσὶ δὲ τοι τοιοῦτος ἦν τῇ μεγαλοψυχία ὁ μέγας Ἀλέξανδρος. Κόνων δὲ τῇ περι Κνίδον ναυμαχία νικήσας Λακεδαιμονίους καὶ τειχίσας τὸν Πειραιᾶ ἑκατόμβην τῷ ὄντι θύσας καὶ οὐ ψευδωνύμως πάντας Ἀθηναίους εἰστίασεν. Ἀλκιβιάδης δὲ Ὀλύμπια νικήσας ἄρματι πρῶτος καὶ δεύτερος καὶ τέταρτος, εἰς ἃς νίκας καὶ Εὐριπίδης ἔγραψεν ἐπινίκιον, θύσας Ὀλυμπίῳ Διὶ τὴν πανηγυριν πᾶσαν εἰστίασε. τὸ αὐτὸ ἐποίησε καὶ Λεώφρων Ὀλυμπίασιν, ἐπινίκιον γράψαντος τοῦ Κεῖου Σιμωνίδου. Ἐμπεδοκλῆς δ' ὁ Ἀκραγαντῖνος ἵπποις Ὀλύμπια νικήσας, Πυθαγορικὸς ὢν καὶ ἐμψύχων ἀπεχόμενος, ἐκ σμύρνης καὶ λιβανωτοῦ καὶ τῶν πολυτελεστάτων ἀρωμάτων βοῦν ἀναπλάσας διένειμε τοῖς εἰς τὴν πανηγυριν ἀπαντήσασιν. ὁ δὲ Χίος Ἴων τραγωδίαν νικήσας Ἀθήνησιν ἐκάστω τῶν Ἀθηναίων ἔδωκε Χίου κεράμιον. τοῦ γὰρ τις ἄλλου πρὸς θεῶν ἂν οὐνεκα εὐξαιτο πλουτεῖν εὐπορεῖν τε χρημάτων ἢ τοῦ δύνασθαι παραβοηθεῖν τοῖς φίλοις σπεῖρειν τε καρπὸν Χάριτος, ἡδίστης θεῶν; τοῦ μὲν πιεῖν γὰρ καὶ φαγεῖν τὰς ἡδονὰς ἔχομεν ὁμοίως· οὐδὲ τοῖς λαμπροῖσι γὰρ δεῖπνοις τὸ πεινῆν παύεται, Ἀντιφάνης φησὶν. ὅτι Ξενοκράτης ὁ Χαλκηδόνιος καὶ Σπεύσιππος ὁ Ἀκαδημαϊκὸς καὶ Ἀριστοτέλης βασιλικὸς νόμος ἔγραψε, ἀλλὰ μὴν καὶ ὁ Ἀκραγαντῖνος Τελλίας, φιλόξενος ὢν καὶ πάντας πολυωρῶν, πεντακοσίοις ἵπευσι ἐκ Γέλας ποτὲ καταλύσασιν ὡς αὐτὸν χειμῶνος ὥρα ἔδωκεν ἐκάστω χιτῶνα καὶ ἱμάτιον.

Olson Index

Alcibiades
Antiphanes
Aristotle of Stagira
Empedocles of Acragas
Empedocles
Euripides
Ion of Chios
Leophron
Simonides of Ceos
Speusippus of Athens
Xenocrates of Chalcedon
Zeus

Alexander III (the Great)
Apollodorus of Carystus? or Gela?
Charmus of Syracuse
Clearchus of Soli
Conon of Athens
Homer
Larensius of Rome
Tellias of Acragas

Kaibel Index Scriptorum

ANTIPHANES
ARISTOTELES
EURIPIDES
SIMONIDES
XENOCRATES

CLEARCHVS
HOMERVS

Kaibel Dialogi Personae

LARENSIS

Meineke Index Scriptorum

Antiphanes
Aristoteles
Empedocles
Euripides
Ion
Speusippus
Xenocrates

Clearchus
Homerus

Text Reuse Detection

DFHG Witnesses Catalog - Text Reuse Detection

Insert one or more entry...

OR

<https://raw.githubusercontent.com/PerseusDL/canonical-greekl>

Submit

Where author="HELLANICUS"

Harpocration, Valerius - Lexicon in decem oratores Atticos (tlg1389.tlg001.perseus-grc2)

Searching HELLANICUS fr.4 [Harpocration]

Στεφανηφόρου ἡρώων, ὡς ἔοικεν, ἦν ἐν ταῖς Ἀθήναις· εἶη δ' ἂν ὁ Στεφανηφόρος, ἦτοι τῶν Ἡρακλέους υἱῶν εἷς, τῶν γενομένων ἐκ τῶν Θεαστίου θυγατέρων, οὗ μνημονεύει Ἑλλάνικος ἐν δεκάτῳ Φορωνίδος, ἢ μήποτε τοῦ Ἀττικοῦ Στεφανηφόρου τὸ ἡρώων ἦν, οὗ πάλιν ὁ αὐτὸς Ἑλλάνικος ἐν δευτέρῳ Ἀτθίδος μέμνηται.

Found in Harpocration, Valerius - Lexicon in decem oratores Atticos

ΣΤΕΦΑΝΗΦΟΡΟΣ Ἀντιφῶν ἐν τῷ πρὸς Νικοκλέα. Στεφανηφόρου ἡρώων, ὡς ἔοικεν, ἦν ἐν ταῖς Ἀθήναις. εἶη δ' ἂν ὁ Στεφανηφόρος ἦτοι τῶν Ἡρακλέους υἱῶν εἷς τῶν γενομένων ἐκ τῶν Θεαστίου θυγατέρων, οὗ μνημονεύει Ἑλλάνικος ἐν ἰ Φορωνίδος· ἢ μήποτε τοῦ Ἀττικοῦ Στεφανηφόρου τὸ ἡρώων ἦν, οὗ πάλιν ὁ αὐτὸς Ἑλλάνικος ἐν β Ἀτθίδος μέμνηται.

```
<div xml:id="stefanhforos" type="textpart" subtype="entry" org="uniform" sample="complete" part="N" n="stefaneforos">
  <head>ΣΤΕΦΑΝΗΦΟΡΟΣ</head>
  <p ana="DFHG"> Ἀντιφῶν ἐν τῷ πρὸς Νικοκλέα. Στεφανηφόρου ἡρώων, ὡς ἔοικεν, ἦν ἐν ταῖς Ἀθήναις.
    εἶη δ' ἂν ὁ Στεφανηφόρος ἦτοι τῶν Ἡρακλέους υἱῶν εἷς τῶν γενομένων ἐκ τῶν Θεαστίου
    θυγατέρων, οὗ μνημονεύει Ἑλλάνικος ἐν <num>ι</num> Φορωνίδος· ἢ μήποτε τοῦ Ἀττικοῦ
    Στεφανηφόρου τὸ ἡρώων ἦν, οὗ πάλιν ὁ αὐτὸς Ἑλλάνικος ἐν <num>β</num> Ἀτθίδος
    μέμνηται. </p>
</div>
```

Searching HELLANICUS fr.28 [Harpocration]

Τετάρων μερῶν ὄντων τῆς θετταλίας, ἕκαστον μέρος Τετράς ἐκαλεῖτο, καθά φησιν Ἑλλάνικος ἐν τοῖς Θετταλικοῖς· ὄνομα ἐ φησιν εἶναι ταῖς τετράσι Θετταλιῶτιν, Φθιώτιν, Πελασγιῶτιν, Ἑστιαῖωτιν.

Found in Harpocration, Valerius - Lexicon in decem oratores Atticos

ΤΕΤΡΑΡΧΙΑ Δημοσθένης Φιλίππικοῖς. τετάρων μερῶν ὄντων τῆς θετταλίας ἕκαστον μέρος τετράς ἐκαλεῖτο, καθά φησιν Ἑλλάνικος ἐν τοῖς Θετταλικοῖς· ὄνομα δὲ φησιν εἶναι ταῖς τετράσι Θετταλιῶτιν, Φθιώτιν, Πελασγιῶτιν, Ἑστιαῖωτιν. καὶ Ἀριστοτέλης δὲ ἐν τῇ κοινῇ Θετταλῶν πολιτείᾳ ἐπὶ Ἀλεῦα τοῦ Πύρρου διηρησθῆναι φησιν εἰς δμοῖρας τὴν Θετταλίαν. εἶη ἂν οὖν λέγων ὁ Δημοσθένης τὴν τετραρχίαν. ὅτι δὲ Φίλιππος καθ' ἑκάστην τούτων τῶν μοιρῶν ἄρχοντα κατέστησε δεδηλώκασιν ἄλλοι τε καὶ Θεόπομπος ἐν τῇ μδ.

```
<div xml:id="tetrarchia" type="textpart" subtype="entry" org="uniform" sample="complete" part="N" n="tetrarchia">
  <head>ΤΕΤΡΑΡΧΙΑ</head>
  <p ana="DFHG"> Δημοσθένης Φιλίππικοῖς. τετάρων μερῶν ὄντων τῆς θετταλίας ἕκαστον μέρος τετράς
    ἐκαλεῖτο, καθά φησιν Ἑλλάνικος ἐν τοῖς Θετταλικοῖς· ὄνομα δὲ φησιν εἶναι ταῖς
```

Intertextuality



TESSERAE

SEARCH

OTHER TOOLS

SOURCES

ABOUT

HELP

BLOG

LATIN

GREEK

ENGLISH

GREEK-LATIN

Latin Search

The Tesserae project aims to provide a flexible and robust web interface for exploring intertextual parallels. Select two poems below to see a list of lines sharing two or more words (regardless of inflectional changes).

For an overview of all advanced features, see the [Instructions](#) page.

Source:

Catullus

Carmina

Full Text

Target:

Vergil

Georgics

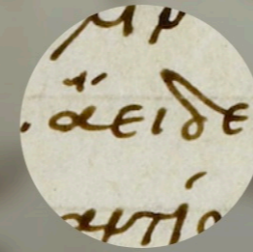
Book 1

show advanced

Compare Texts

4

Critical Editions and Annotations



The Homer Multitext project

As many Homers as you please

Digital publications

Manuscripts

Editing the HMT

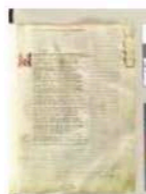
Links

About the Homer Multitext

<http://www.homermultitext.org>

Manuscript msA, page 12r

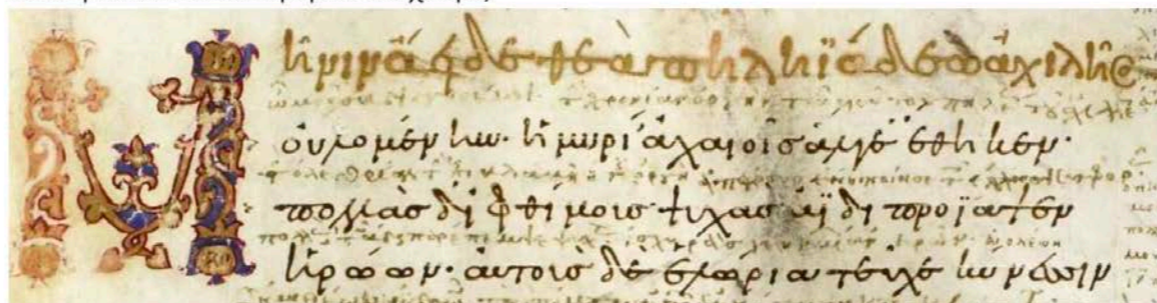
Manuscript msA, page 12r



prev: [11v](#) next: [12v](#)

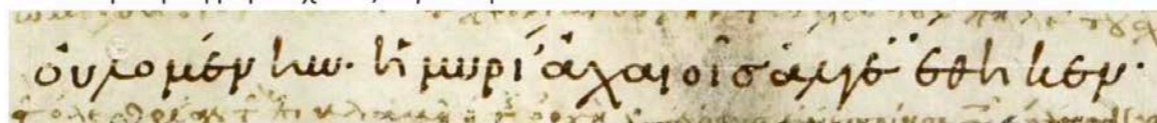
Iliad text

1.1 Μῆνιν ἄειδε θεὰ Πηληϊάδεω Ἀχιλῆος



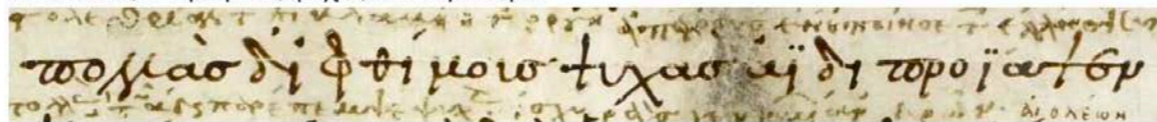
[1](#), [2](#), [3](#), [4](#), [5](#), [6](#), [7](#)

1.2 οὐλομένην· ἢ μυρί' Ἀχαιοῖς ἄλγε' ἔθηκεν·



[1](#), [2](#)

1.3 πολλὰς δ' ἰφθίμους ψυχὰς Ἄϊδι προΐαψεν



[1](#), [2](#), [3](#)

1.4 ἠρώων· αὐτοὺς δὲ ἐλώρια τεύχε κύνεσσιν



Semantic Annotations

INCEpTION Projects Dashboard Help Administration berti Log out (automatically in 29 min)

Document **Page** **Script** **Help** **Workflow**

Open Prev. Next Export Settings First Prev. Go to Next Last LTR/RTL Guidelines Reset Finish

Deipnosophists/01-007.tsv Showing 1-5 of 9 sentences [document 7 of 249]

Annotation

Layer Ancient Greek Catalog

Annotation Delete Clear

Text Αρχέστρατος ὁ Συρακούσιος ἢ Γελῶος

value urn:cts:greekLit:tlg1175

1 ὅτι Αρχέστρατος ὁ Συρακούσιος ἢ Γελῶος ἐν τῇ ὥσ Χρύσιππος ἐπιγράφει Γαστρονομία , ὥς δὲ Λυγκεύς καὶ Καλλίμαχος Ἡδυπαθεία , ὥς δὲ Κλέαρχος Δειπνολογία , ὥς δ' ἄλλοι Ὀψοποιία — ἐπικὸν δὲ τὸ ποίημα, οὐ ἡ ἀρχή·

2 ἱστορίας ἐπίδειγμα ποιούμενος Ἑλλάδι πάση — φησί·

3 πρὸς δὲ μιᾷ πάντας δειπνεῖν ἀβρόδαιτι τραπέζῃ.

4 ἔστωσαν δ' ἢ τρεῖς ἢ τέσσαρες οἱ ξυνάπαντες ἢ τῶν πέντε γε μὴ πλείους·

5 ἤδη γὰρ ἂν εἴη μισθοφόρων ἀρπαξιβίων σκηνὴ στρατιωτῶν.

<https://inception-project.github.io//use-case-gallery/digital-athenaeus/>

5

Linguistic Resources

Morpho-syntactic Annotation

ARETHUSA Search for documents.. Catul. 51, 1-5

Ille mi par esse deo videtur ,
 ille , si fas est , superare divos ,
 qui sedens adversus identidem te
 spectat et audit

dulce ridentem , misero quod omnis
 eripit sensus mihi : nam simul te ,
 Lesbia , aspexi , nihil est super mi

lingua sed torpet , tenuis sub artus
 flamma demanat , sonitu suo
 tintinant aures gemina , teguntur
 lumina nocte .

otium , Catulle , tibi molestum est :
 otio exsultas nimium -que gestis :
 otium et reges prius et beatas
 perdidit urbes .

by token regex
 by form all
 by label
 Found tokens

0 of 92 unused

esse 1-4
 edo1 v--pna--- document +
 verb.pr.inf.act
 sum1 v--pna--- bsp/morpheus -
 verb.pr.inf.act
 Create new form

esse 1-4 28 of 92 unused
 PNOM ---

Full Text Search

 Filter selected 0 of 92 commented
 New Comment on esse

 Submit

[ROOT]
 COORD AuxK
 PRED_CO PRED_CO AuxC
 videtur videtur quod
 SBJ OBJ PNOM SBJ AuxC PNOM ADV
 ille mi esse ille si superare eripit
 PNOM PNOM ADV OBJ OBJ OBJ
 par deo et est divos sensus mihi
 OBJ OBJ ATR ATR ATR
 deo qui spectat audit fas , omnis misero
 SBJ ATR_CO ATR_CO AuxX SBJ AuxX
 sedens identidem te ridentem
 ADV ADV AuxX
 adversus dulce ,

https://perseusdl.github.io/treebank_data/

https://github.com/PerseusDL/treebank_data/blob/master/AGDT2/guidelines/Greek_guidelines.md

Knowledge Bases

MISSION

Linking Latin

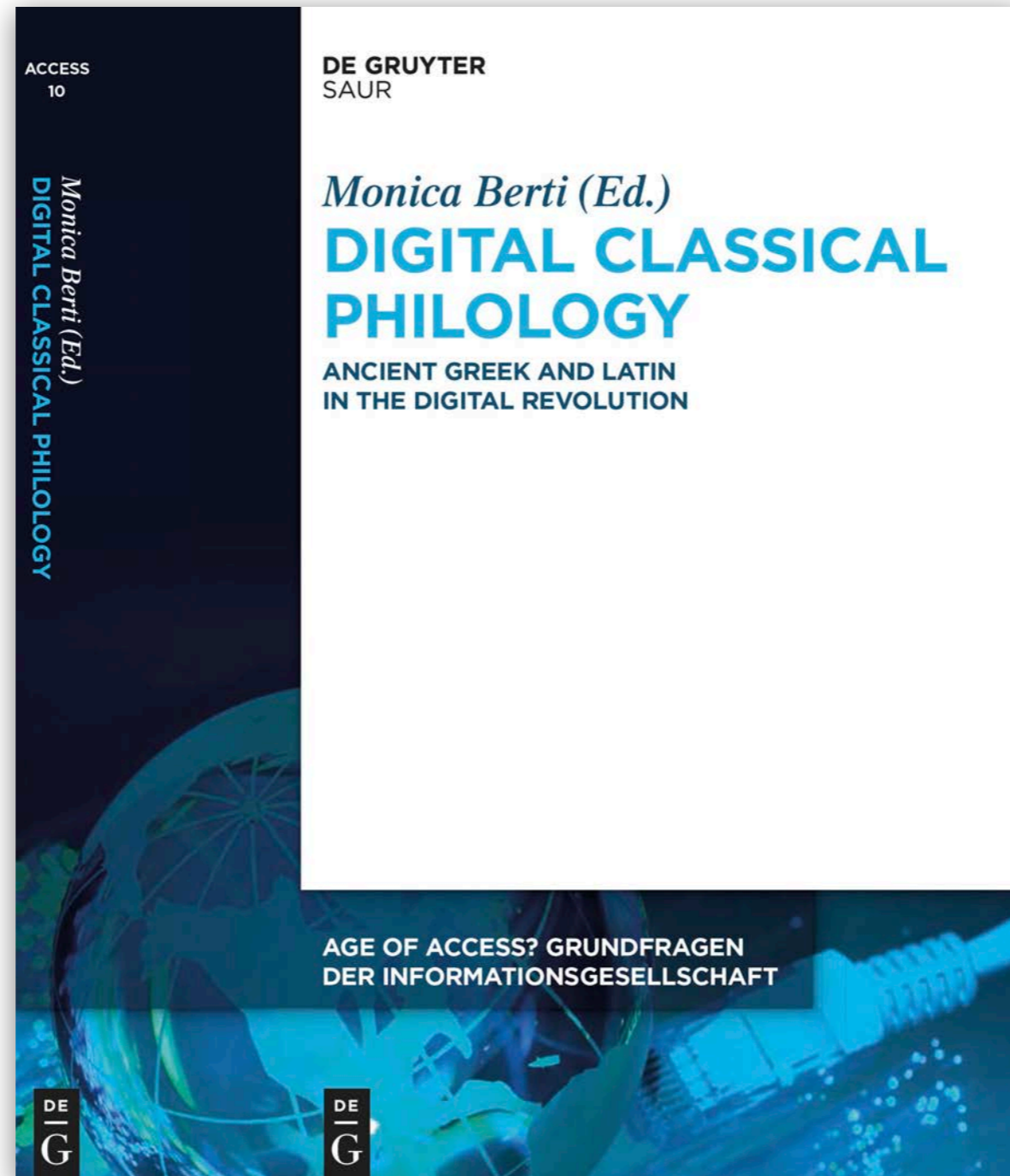
Despite the headway made in the last decade in building, sharing and exploiting linguistic resources and tools for the automatic processing of Latin, these remain incompatible.

The **objective** of LiLa (2018-2023) is to connect and ultimately exploit the wealth of linguistic resources and NLP tools for Latin created so far, in order to bridge the gap between raw language data, NLP and knowledge descriptions. To do so, LiLa is building an open-ended Knowledge Base using the Linked Data paradigm, concurrently adding Latin to the multilingual Linguistic Linked Open Data (LLOD) cloud.

[Read more →](#)



<https://lila-erc.eu>



<https://www.degruyter.com/view/product/502894>





Thank You

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