## Sunoikisis Digital Classics 2025

# Finding Free Classical Texts

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Gabriel Bodard (University of London)
Katharine Shields (King's College London)



- What are "open" texts?
- Copyright, Public Domain and Licensing
- Metadata and Paradata
- Overview of text repositories:
  - Perseus, Open Greek&Latin and Latin Library; CTS
  - Wikisource, Vicifons & Βικιθηκη
  - OTA/Gutenberg/Archive/Google Books
  - LACE & OCR
- What can we do with digital texts?
- Exercise

What are open texts?

Copyright, Public Domain and Licensing

## Copyright (from www.gov.uk)

You get copyright protection automatically - you do not have to apply or pay a fee. There is not a register of copyright works in the UK.

You automatically get copyright protection when you create:

- original literary, dramatic, musical and artistic work, including illustration and photography
- original non-literary written work, such as software, web content and databases
- sound and music recordings
- film and television recordings
- broadcasts
- the layout of published editions of written, dramatic and musical works

You can mark your work with the copyright symbol (©), your name and the year of creation. Whether you mark the work or not does not affect the level of protection you have.

## Copyright (from www.gov.uk)

Copyright protection starts as soon as a work is created. Once your copyright has expired, anyone can use or copy your work. The length of copyright depends on the type of work.

Type of work	How long copyright usually lasts
Written, dramatic, musical, artistic work	70 years after the author's death
Sound and music recording	70 years from when it's first published
Films	70 years after the death of the director, screenplay author and composer
Broadcasts	50 years from when it's first broadcast
Layout of published editions of written, dramatic or musical works	25 years from when it's first published

The length of copyright also depends on how long ago the work was created.

- Open Source Software
- Open Scholarship
  - Enlightenment scientific method
- Open Access Publication
- Open Licenses
  - Creative Commons

# Open Source Software

- Open Source model
  - "free software"
    - "free as in speech, not as in beer"
  - o community goods
  - collaboration
  - software management model
  - private industry involvement
- Flagship Open Source Software
  - Unix, GNU, Linux, (Android, Google Chrome)
  - Mozilla, Firefox, Thunderbird
  - OpenOffice / LibreOffice

## The GNU GPL

• When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

• To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you

modify it.

• For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

# Open Source Licenses

- Many and various flavours
- All allow re-use and redistribution
- Some allow commercial use, some not
- Some allow non-OS use, some not
- Most allow modification

# Open Source # Public Domain

- Works within copyright law
  - have to claim copyright to use OS licence

- Enables reuse copyright would deny
  - shelf-life of software shorter than copyright
  - o collaborators may never meet or communicate
  - may have unrelated needs
  - o conflicts, may fork code
  - most OSS not community led

# Open Scholarship

- aka The Enlightenment University
- First Free Universities in C18 Germany
  - o "free as in speech"
  - o independent from Church and goverment
- Established need for rational argument
  - No *ex cathedra* pronouncements
  - Reproducible evidence and method
  - Citation of previous scholarship

# Open Scholarship: Method

- Scholar A does research
  - 20 years later, writes book, includes citations
  - book published
- 30 years later, Scholar B reads book
  - o follows citations
  - reproduces experimental methodology
  - disagrees with results
  - o new research
  - 20 years later, writes new book
  - o includes Scholar A among citations
- This is collaboration
  - o even if they never meet

# Scholarly Method

- Experimental Physics
  - o cite earlier theory and experiments
  - credit all collaborators
  - document experimental method reproducibly
- Theoretical Literary Criticism
  - ocite earlier critics (to discredit)
  - o credit all proponents of your theory
  - document argumentation painstakingly
  - footnote everything

# Scholarly Method cont'd

- Classical Philologist
  - o apparatus criticus cites scholarly differences
  - bibliography credits editorial restorations
  - historical commentary argues for current interpretation
  - o publish photographs, facsimiles, comparanda
- republish regularly

# Scholarship is OSS

- asynchronous collaboration
- re-use within certain parameters
- attribution required
- "source code" distributed with "binaries"
  - o reproducible experimental method
- academic protocol not legal license

# Open Access Publication

- "Free as in beer" + guarantees
- May be fully copyright restricted
  - o e.g. course materials
  - o web comics, blogs
  - databases
  - o journals, news
- Business model may depend on massive access (cf. free newspapers & advertising)

## Academic Value of OA

- Open Access Publication is free for all
  - o less well-funded universities
  - o non-academics
  - less wealthy countries
- Public good (education publicly funded)
- Enables citation and reference checking
- Citation indexes show dominance of online publications

# **Open Licensing**

- Open Licenses waive <u>some</u> copyright protections
  - usually allowing redistribution
  - usually requiring attribution
  - o may or may not allow commercial use
  - o may or may not allow non-open use
  - o may or may not allow transformative use
- ≠ public domain

## **Creative Commons**

- Some Rights Reserved
- Creative Commons defines the spectrum of possibilities between full copyright and the public domain. From <u>all rights reserved</u> to <u>no rights reserved</u>. Our licenses help you keep your copyright while allowing certain uses of your work a "some rights reserved" copyright.
- CC Licenses work alongside copyright
- Creative Commons licenses are not an alternative to copyright. They
  work alongside copyright, so you can modify your copyright terms to best
  suit your needs. We've collaborated with intellectual property experts all
  around the world to ensure that our licenses work globally.

### http://www.creativecommons.org/

## CC Licenses

### • CC-BY : Attribution

- ∘ Vanilla
- You let others copy, distribute, display, and perform your copyrighted work — and derivative works based upon it — but only if they give credit the way you request.

### • SA: Share Alike

 You allow others to distribute derivative works only under a license identical to the license that governs your work.

### NC : Non-Commercial

 You let others copy, distribute, display, and perform your work — and derivative works based upon it — but for non-commercial purposes only.

### ND : No Derivative Works

You let others copy, distribute, display, and perform only verbatim copies
of your work, not derivative works based upon it.

# Use Open Licenses if...

- You want people to re-use and re-mix
  - Allow testing / building on science
- Obscurity is a bigger enemy than piracy
  - o independent bands, self-published authors
- You want others to improve your work
  - ocf. Wikipedia
- You believe your work is a public good
  - Academic work sits here

Metadata and Paradata

### Wikipedia on metadata and paradata:

### https://en.wikipedia.org/wiki/Metadata

"Metadata (or metainformation) is *data that provides information about other data*, but not the content of the data itself, such as the text of a message or the image itself. There are many distinct types of metadata, including: Descriptive metadata; Structural metadata; Administrative metadata; Reference metadata; Statistical metadata; Legal metadata."

### https://en.wikipedia.org/wiki/Paradata

"The paradata of a data set or survey are data about the process by which the data were collected. Paradata of a survey are usually administrative data about the survey."

## Catalogue metadata

- Author of record
- Date of record / update
- Sources, bibliography
- Standards, authorities or vocabularies used
- Hidden data (cost, exact location, donors)
- Software used
- Source of record data
- Certainty / precision
- Additional classmarks
- Description / notes

## Digital text or project metadata

- Authors, contributors, collaborators, responsibility
- Date of records, version control
- Software or code used, other digital sources
- Data formats
- Languages, transliteration, encoding schemes

### **Paradata**

- Source of assertions
- Certainty or qualifiers
- Description of process
- Linked Open Data
- Primary arguments for or against interpretations

# Text Repositories



## PerseusDL and Open Greek & Latin

- Perseus Catalog: <a href="https://catalog.perseus.org/">https://catalog.perseus.org/</a> and <a href="https://github.com/PerseusDL/catalog\_data">https://github.com/PerseusDL/catalog\_data</a>
- Perseus Digital Library:
   <a href="https://www.perseus.tufts.edu/">https://www.perseus.tufts.edu/</a> and <a href="https://scaife.perseus.org/">https://scaife.perseus.org/</a>
- PerseusDL GitHub: https://github.com/PerseusDL
- OGL GitHub: https://github.com/OpenGreekAndLatin

## Thucydides

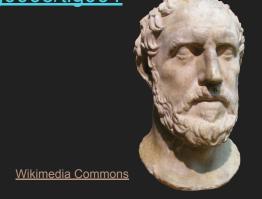
https://catalog.perseus.org/catalog/urn:cts:greekLit:tlg0003

https://github.com/PerseusDL/catalog\_data/tree/master/mads/PrimaryAuthors/T/Thucydides

https://scaife.perseus.org/library/urn:cts:greekLit:tlg0003/

https://github.com/PerseusDL/canonical-greekLit/tree/master/data/tlg0003/tlg001

https://www.wikidata.org/wiki/Q41683





- Digital Latin Library: https://digitallatin.org/
- DLL Catalog:

https://digitallatin.org/research/catalog.html and https://catalog.digitallatin.org/

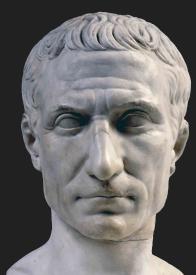
## Julius Caesar

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https://scaife.perseus.org/library/urn:cts:latinLit:phi0448/

https://www.wikidata.org/wiki/Q1048



Wikisource, Vicifons & Βικιθηκη

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the free library that anyone can improve.

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#### JANUARY'S FEATURED TEXT

The Labvrinth of the World and the Paradise of the Heart is a satirical allegory



by Czech philosopher, pedagogue and

theologian Johan Amos Comenius. Considered a jewel of Baroque literature, it is one of the author's most important works. The world is portrayed as a city which resembles a labyrinth, entered by a pilgrim (the narrator and author himself), accompanied by the guides Searchall and Falsehood, who try to prevent the pilgrim from seeing reality by making him watch the world through glasses made of Illusion.

Comenius finished the first version in 1623, but he rewrote the book several times, changing its concept and form. The book remains the most widely read work of older Czech literature.

WHEN I had attained that age at which the difference between good and bad begins to appear to the human understanding. I saw how different are the ranks, conditions, occupations of men, the works and endeavours at which they toil; and it seemed most



#### **NEW TEXTS**

Tramps in the Far North (1919)

by Hector Bolitho

Contracts (Rights of Third Parties) Act 1999 (1999)

by Parliament of the United Kingdom

The Testament of Beauty (1929)

by Robert Bridges

Live Music Act 2012 (Commencement) Order 2012 (2012)

by Parliamentary Under Secretary of State for Department for Culture,

Media and Sport

Flags Act 1953 (1954)

by Parliament of Australia

The Eggs from Lake Tanganyika (1926)

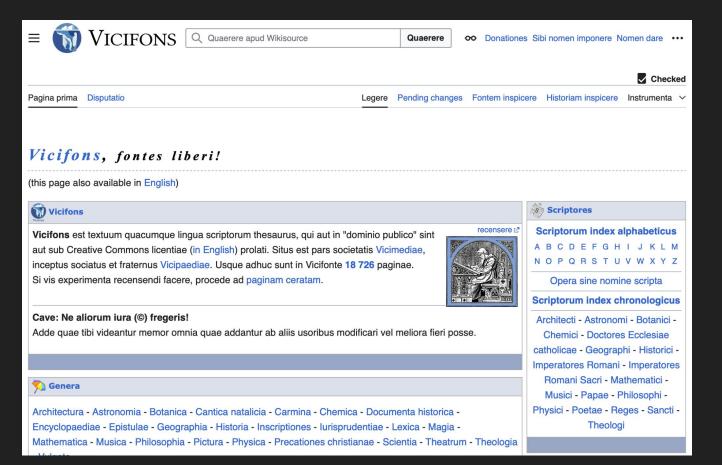
by Curt Siodmak

Wireless Telephone (1904)

by Roberto Landell de Moura

Ryba & Achthoven (2024)

### Vikifons



### Βικιθήκη



Ο Αναζήτηση σε Βικιθήκη

Κύρια Σελίδα Συζήτηση

Αναζήτηση

οο Δωρεές Δημιουργία λογαριασμού Σύνδεση •••

Ανάγνωση Προβολή κώδικα Προβολή ιστορικού Εργαλειοθήκη Υ

Περιεχόμενα

απόκρυψη

Αρχή

Άλλα εγχειρήματα



Καλώς ήλθατε στη Βικιθήκη, ένα αρχείο πρωτογενών πηγών σε οποιαδήποτε γλώσσα, που μπορεί να επεξεργαστεί οποιοσδήποτε. Η Βικιθήκη έχει προς το παρόν 12.318 κείμενα.

Επισκεφθείτε τη σελίδα βοήθειας και πειραματιστείτε στο αμμοδοχείο προκειμένου να εξασκηθείτε στην επεξεργασία σελίδων.

ΓΕΟΓΡΑΦΙΑ | ΙΣΤΟΡΙΑ | ΒΙΟΓΡΑΦΙΕΣ | ΦΙΛΟΣΟΦΙΑ | ΕΠΙΣΤΗΜΕΣ | ΚΟΙΝΟΝΙΑ Περιήγηση στη Βικιθήκη · Όλες οι σελίδες · Αλφαβητικός κατάλογος · Όλες οι κατηγορίες

#### Λογοτεχνία

Είδη: Μυθιστορήματα Ι Διηγήματα Ι Ποίηση Ι Ομιλίες Ι Τραγούδια Δοκίμια Ι Επιστολές

Ιστορικές περίοδοι: Αρχαία και Κλασική γραμματεία Ι Μεσαιωνικά κείμενα

#### Ιστορία:

Ιστορικά έγγραφα Ι Ελληνική Επανάσταση Ι Β΄ Παγκόσμιος Πόλεμος Ι Δικτατορία των Συνταγματαρχών



#### Άρχαῖα Ἑλληνικά **English**

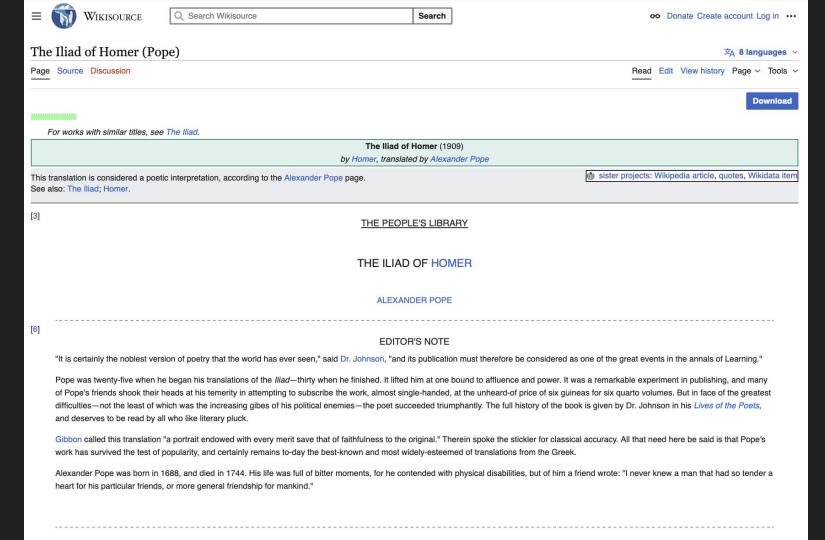
"Βικιθήκη" harbours texts spanning the whole history of the Greek language starting from Homeric to modern.

### Κατάλογος συγγραφέων

ΑΒΓΔΕΖΗΘΙΚΛΜ ΝΞΟΠΡΣΤΥΦΧΨΩ

#### Νέα κείμενα

• Στέφανου Σαχλίκη: Στεφάνου του



← Preface

by Homer, translated by Alexander Pope

Book 2→

Book I: The Contention of Achilles and Agamemnon

[33]

## THE ILIAD

## **BOOK I**

#### THE ARGUMENT

#### THE CONTENTION OF ACHILLES AND AGAMEMNON

In the war of Troy, the Greeks having sacked some of the neighbouring towns, and taking from thence two beautiful captives, Chryseïs and Briseïs, allotted the first to Agamemnon, and the last to Achilles. Chryses, the father of Chryseïs, and priest of Apollo, comes to the Grecian camp to ransom her; with which the action of the poem opens, in the tenth year of the siege. The priest being refused and insolently dismissed by Agamemnon, entreats for vengeance from his god, who inflicts a pestilence on the Greeks. Achilles calls a council, and encourages Chalcas to declare the cause of it, who attributes it to the refusal of Chryseïs. The king being obliged to send back his captive, enters into a furious contest with Achilles, which Nestor pacifies; however, as he had the absolute command of the army, he seizes on Briseïs in revenge. Achilles in discontent withdraws himself and his forces from the rest of the Greeks; and complaining to Thetis, she supplicates Jupiter to render them sensible of the wrong done to her son by giving victory to the Trojans. Jupiter granting her suit, incenses Juno, between whom the debate runs high, till they are reconciled by the address of Vulcan. The time of two-and-twenty days is taken up in this book; nine during the plague, one in the council and quarrel of the Princes, and twelve for Jupiter's stay with the Ethiopians, at whose return Thetis prefers her petition. The scene lies in the Grecian camp, then changes to Chrysa, and lastly to Olympus.

[34]

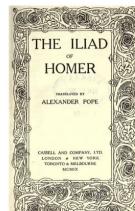
THE wrath of Peleus' son, the direful spring
Of all the Grecian woes, O Goddess, sing!
That wrath which hurled to Pluto's gloomy reign
The souls of mighty chiefs untimely slain,
Whose limbs, unburied on the naked shore,
Devouring dogs and hungry vultures tore:

Index Discussion Styles

Read Edit View history Page v Tools v



PAGE



Pages (key to Page Status)

Title The Iliad of Homer

Author Homer

Translator Alexander Pope

**Year** 1909

Publisher Cassel

Location London

Source djvu

Progress Proofread—All pages of the work proper are proofread, but not all are validated

Transclusion Fully transcluded check

Front cover Inside front cover 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194

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### THE ILIAD

**BOOK I** 

THE ARGUMENT

#### THE CONTENTION OF ACHILLES AND AGAMEMNON

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The wrath of Peleus' son, the direful spring
Of all the Grecian woes, O Goddess, sing!
That wrath which hurled to Pluto's gloomy reign
The souls of mighty chiefs untimely slain,
Whose limbs, unburied on the naked shore,
Devouring dogs and hungry vultures tore:
Since great Achilles and Atrides strove,
Such was the sovereign doom, and such the will of Jove!
Declare, O Muse! in what ill-fated hour
Sprung the fierce strife, from what offended Power?

# THE ILIAD

## BOOK I

#### THE ARGUMENT

#### THE CONTENTION OF ACHILLES AND AGAMEMNON

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THE wrath of Peleus' son, the direful spring Of all the Grecian woes, O Goddess, sing! That wrath which hurled to Pluto's gloomy reign The souls of mighty chiefs untimely slain, Whose limbs, unburied on the naked shore, Decouping does and hungar unlarge tore.

Oxford Text Archive, Gutenberg,

Internet Archive, Google Books



# Oxford Text Archive

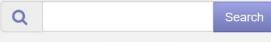
A repository of full-text literary and linguistic resources. Thousands of texts in more than 25 languages.





# Important notice: November 2021

The Bodleian Libraries are currently undertaking a review of the Oxford Text Archive, including its policies, technologies and content (both textual content and contextual website content). The OTA will therefore not be taking any new deposits until further notice.



## Advanced Search

Subject	Date range	Collections
Great Britain (11821)	2000-present (39)	Core Collection
Broadsides (4897) Sermons, English (4029) Bible. (3156) England and Wales. (2169) Church of England (2146)	1900-1999 (611)	Early English Books Online
	1800-1899 (829)	(Phase 1)
	1700-1799 (7353)	Early English Books Online (Phase 2)
	1600-1699 (22656)	
	1500-1599 (2965)	ECCO - Eighteenth Century Collections Online
Society of Friends (1801)	0-1499 (297)	Evans Early American Imprints
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		OTA Guides



# Oxford Text Archive

A repository of full-text literary and linguistic resources. Thousands of texts in more than 25 languages.





- Latin: 628
- **Ancient Greek: 131**
- Caveat:
  - languages inclusive (e.g. English volume with couple lines of Latin);
  - Greek is all in "Beta Code"
  - Deposited texts, some legacy projects, digitisations
  - licensing/copyright unclear



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The trap by Murray Leinster



The cradle of the deep by Joan Lowell



Fix bayonets!

by John W.

Thomason



Tapojen historiaa

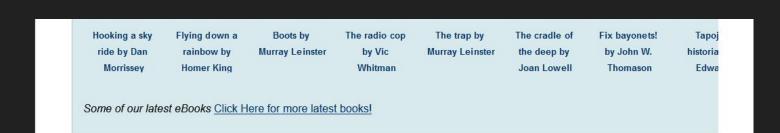
Tapoj historia

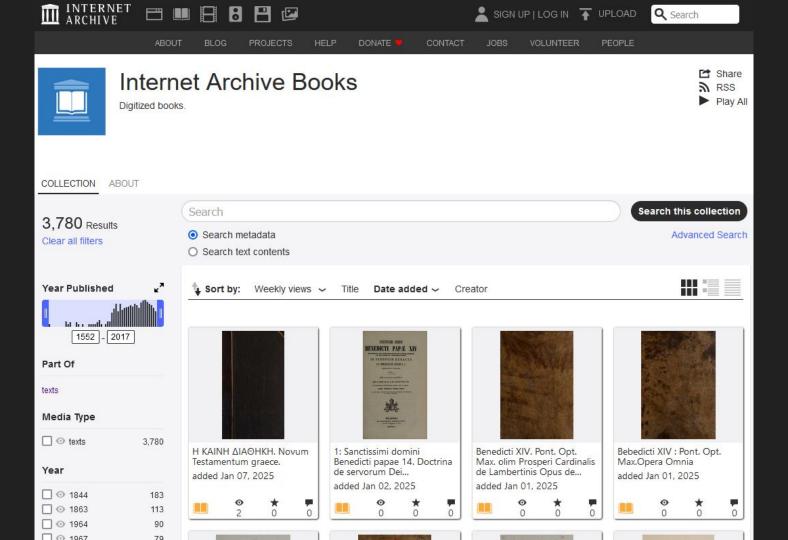
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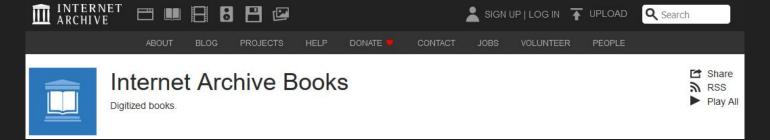
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- Latin: c. 150
- Ancient Greek: 7
- Caveat:
  - a lot of translations / Neo-Latin
  - All texts should be public domain (copyright expired)
  - Formats for reading
  - OCR artifacts







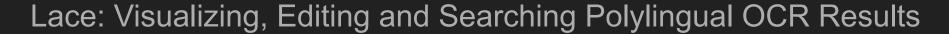
- Latin: 3283
- Ancient Greek: 597
- Caveat:
  - Scanned books, OCR artefacts, assumed "free"
  - Older editions
  - Neo-Latin, a lot of liturgical texts
  - Some limited access



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# OCR



http://heml.mta.ca/lace/index.html

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αύτοματίζωνς της φύσεως, γύσται γαρ η της γης σπαμάνης η μορίων τικών εν τοις φυτοίς. Ενια γαρ αύτα μεν έ συνόσταται καθ' αύτα χωρές, εν έτέροις δ' έγγωται δέδρεσιν, οίον δ ίξος.

Περί μεν εν φυτών, αύτα καθ' αύτα χωρίς έπισκε- 5 2 πτέον περί δε των άλλων ζώων της γενέσεως λεκτέον κατά τον ἐπιβάλλοντα λόγον καθ' ἔκαςον αὐτῶν, ἀπὸ τῶν εἰρημένων συνείροντας. καθάπερ γὰρ είπομεν, τῆς γενέσεως ἀργας αν τις ούχ πκισα θείη το δήλυ και το άρρεν, το μέν מספר של דחל אוייושבשל אמן דחל שביצישבשל בציטי דחי מסצייי, דם 10 δε θήλυ ώς ύλης. τέτο δε μάλις άν τις πιζεύσειε θεωρών πῶς γίνεται τὸ σπέρμα καὶ πόθεν ἐκ τέτου μὲν γὰρ τὰ Φύσει γινόμενα συνίς αται, τέτο δε πῶς ἀπὸ τε θήλεος καὶ τε άρρενος συμβαίνει γίγνεσθαι, δεί μη λανθάνειν. τῷ γὰρ αποκρίνεσθαι το τοιθτον μόριον από το θήλεος και το άρρε- 15 νος, και έν τέτοις την απόκρισιν είναι και έκ τέτων, δια τέτο τὸ θήλυ καὶ τὸ άρρεν ἀρχαὶ τῆς γενέσεως εἰσιν. άρρεν μέν γάρ λέγομεν ζώον το είς άλλο γεννών, δήλυ δε το είς αὐτό διὸ καὶ ἐν τῷ ὅλῳ τὴν τῆς γῆς φύσιν ὡς δῆλυ καὶ μητέρα νομίζεσην, έρανον δε και ήλιον ή τι των άλλων των 20 τοιέτων ώς γεννώντας καὶ πατέρας προσαγορεύουσιν. τὸ δ' άρρεν καὶ τὸ βῆλυ διαφέρει κατά μὲν τὸν λόγον τῷ δύνασθαι έτερον έκατερον, κατά δε την αϊσθησιν μορίοις τισίν, κατά μεν τον λόγον τῷ άρρεν μεν είναι το δυνάμενον γενναν είς έτερον, καθάπερ έλέχθη πρότερον, τὸ δὲ θῆλυ τὸ είς 25 αύτό, καὶ ἐξ δ γίνεται ἐνυπάρχον ἐν τῷ γεννῶντι τὸ γεννώμενον. έπει δε δυνάμει διώρις αι και έργω τινί, δείται δε πρὸς πᾶσαν ἐργασίαν ὀργάνων, ὄργανα δὲ ταῖς δυνάμεσε τα μέρη τε σώματος, αναγκαϊον είναι και πρός την τέκνωσιν καλ τὸν συνδυασμέν μόρια, καλ ταῦτα διαφέροντ' άλ-30 λήλων, καθό το άρρεν διοίσει το θήλεις. εί γαρ καί καθ' όλυ λέγεται το ζώου το μέν το δήλυ το δε το άρρεν, άλλ' [1"]

αὐτοματιζούσης τῆς φύσεως. γίνεται γὰρ ἢ τῆς γῆς σηπομένης ἢ μορίων τινών ἐν τοῖς φυτοῖς. ἔνια γὰρ αὐτὰ μὲν οὐ συνίσταται καθ' αυτά γωρίς, έν έτέροις δ' έγγίνεται δένδρεσιν, οἶον ὁ ἰξός Χ Περὶ μὲν οὖν φυτῶν, αὐτὰ καθ' αὐτὰ χωρὶς ἐπισκεπ- 5 πτέον περί δὲ τῶν ἄλλων ζώων τῆς γενέσεως λεκτέον κατὰ τὸν ἐπιβάλλοντα λόγον καθ' ἔκαστον αὐτῶν, ἀπὸ τῶν εἰρημένων συνείροντας, καθάπερ γὰρ εἴπομεν, τῆς γενέσεως ἀργàs ἄν τις οὐχ ἥκιστα θείη τὸ θῆλυ καὶ τὸ ἄρρεν, τὸ μὲν άρρεν ώς τής κινήσεως καὶ τής γενέσεως έχον τὴν ἀρχήν, τὸ 10 δὲ θῆλυ ώς ὕλης, τοῦτο δὲ μάλιστ' ἄν τις πιστεύσειε θεωρώι πώς γίνεται τὸ σπέρμα καὶ πόθεν ἐκ τούτου μὲν γὰρ τὰ φύσει γινόμενα συνίσταται, τοῦτο δὲ πῶς ἀπὸ τοῦ θήλεος καὶ τοῦ ἄρρενος συμβαίνει γίγνεσθαι, δεῖ μὴ λανθάνειν. τῷ γὰρ άποκρίνεσθαι τὸ τοιοῦτον μόριον ἀπὸ τοῦ θήλεος καὶ τοῦ ἄρρενο- 15 ς, καὶ ἐν τούτοις τὴν ἀπόκρισιν εἶναι καὶ ἐκ τούτων, διὰ τοῦτο τὸ θῆλυ καὶ τὸ ἄρρεν ἀρχαὶ τῆς γενέσεώς εἰσιν. ἄρρεν μὲν γὰρ λέγομεν ζῷον τὸ εἰς ἄλλο γεννῶν, θῆλυ δὲ τὸ εἰς αύτο διὸ καὶ ἐν τῶ ὅλω τὴν τῆς γῆς φύσιν ὡς θῆλυ καὶ μητέρα νομίζουσιν, οὐρανὸν δὲ καὶ ἥλιον ἥ τι τῶν ἄλλων τῶν 2 τοιούτων ώς γεννώντας καὶ πατέρας προσαγορεύουσιν. τὸ δ' άρρεν καὶ τὸ θῆλυ διαφέρει κατὰ μὲν τὸν λόγον τῷ δύνασθαι έτερον έκάτερον, κατά δὲ τὴν αἴσθησιν μορίοις τισίν, κατά μὲν τὸν λόγον τῷ ἄρρεν μὲν εἶναι τὸ δυνάμενον γενναν εἰς ἔτερον, καθάπερ ἐλέχθη πρότερον, τὸ δὲ θῆλυ τὸ εἰς 2 αύτό, καὶ έξ οὖ γίνεται ἐνυπάρχον ἐν τῷ γεννῶντι τὸ γεν νώμενον. ἐπεὶ δὲ δυνάμει διώρισται καὶ ἔργω τινί, δεῖται δὲ πρός πάσαν έργασίαν όργάνων, όργανα δὲ ταῖς δυνάμεσι τὰ μέρη τοῦ σώματος, ἀναγκαῖον εἶναι καὶ πρὸς τὴν τέκνωσιν καὶ τὸν συνδυασμὸν μόρια, καὶ ταῦτα διαφέροντ' ἀλλ- 20 ήλων, καθὸ τὸ ἄρρεν διαίσει τοῦ θήλεος. εἰ γὰρ καὶ καθ' όλου λέγεται τοῦ ζώου τοῦ μὲν τὸ θῆλυ τοῦ δὲ τὸ ἄρρεν, ἀλλ'

What can we do with digital texts?

# Annotation

- Additional information about a text or set of texts
- Tag sets
- Descriptive or analytic
- Linguistic, semantic, relational...

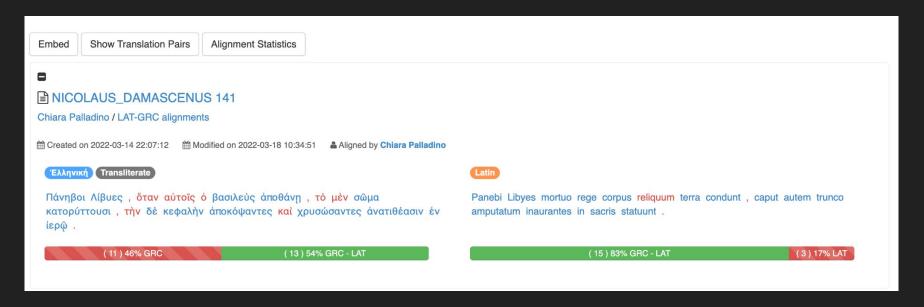
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(Frg. 4) Vs. 11' [ ŠA-M]U²- 'Û' ER-ṢE-TU[M
(Frg. 4) Vs. 12' 「1 UDU Diš'-du-uš-ta-ia [
(Frg. 4) Vs. 13' 1 UDU Dta-ša-ma-za 1 UDU x[

(Frg. 4) Vs. 14' 1 UDU Dta-an-ta-aš-ša-aš 「1 [
(Frg. 4) Vs. 15' 1 UDU Dta-la-aš-ši 1 UDU Da-[
(Frg. 4) Vs. 16' 1 UDU Dwa-aš-du-la-aš-ši 1 UDU [
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(Frg. 4) Vs. I 1' [ Ištuššaya:DN.D/L.SG M
(Frg. 4) Vs. I 2' <sup>r</sup> 1 UDU <sup>D</sup>iš' -du-uš-ta-ia [
(Frg. 4) Vs. I 3' 1 UDU <sup>D</sup>ta-ša-ma-za 1 UDU x[
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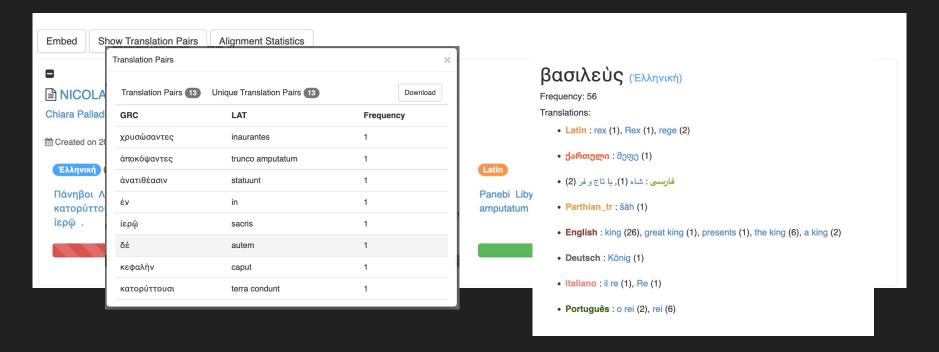
# Alignment

Translation alignment - matching a text and its translation



# Alignment

Translation alignment - matching a text and its translation



# Visualisation and analysis

- Analyse textual data to answer questions about language, content, historical trends...
- Linguistic analysis
- Visualisation tools, e.g. voyant <a href="https://voyant-tools.org">https://voyant-tools.org</a>