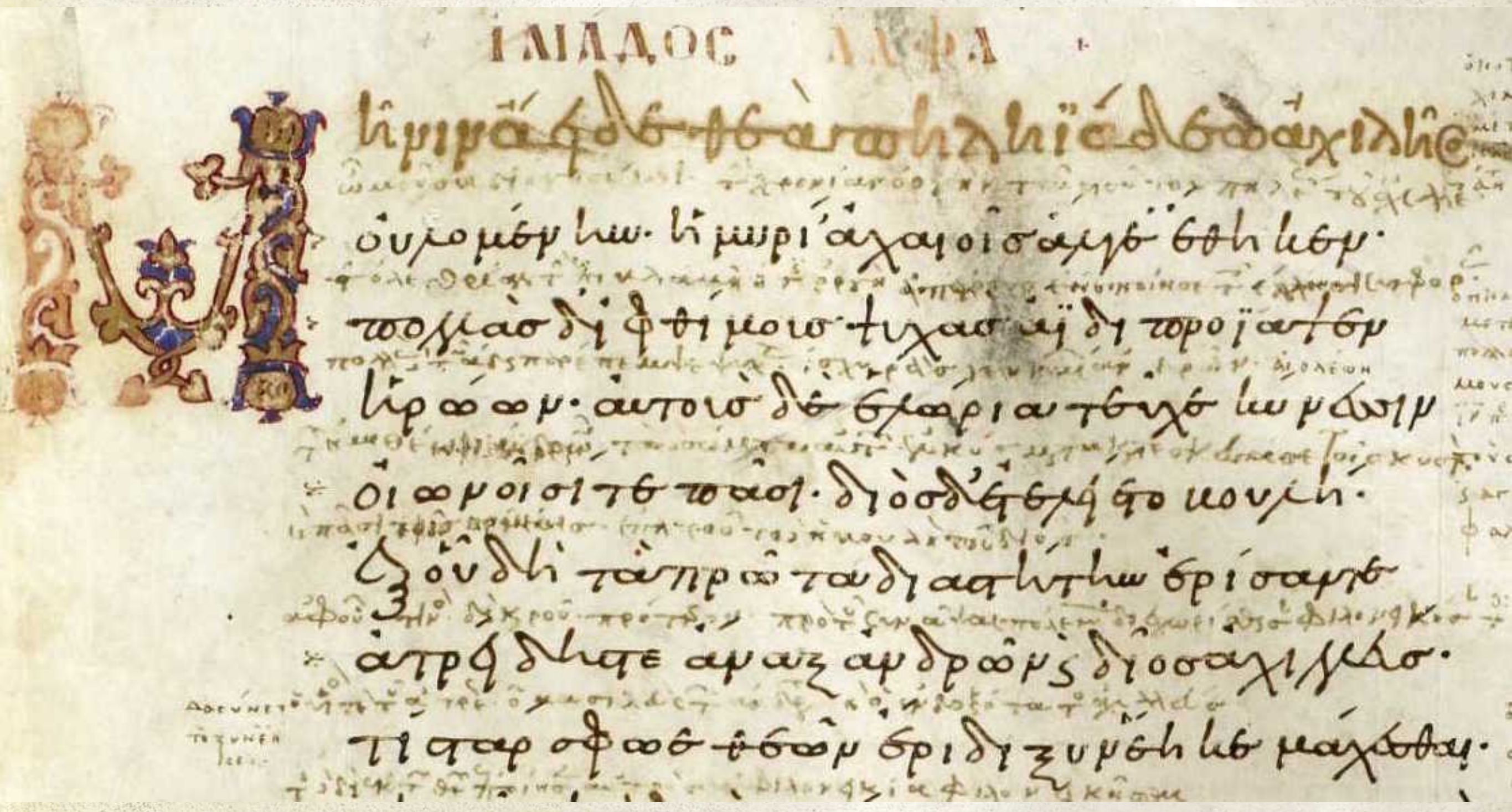# THE HOMER MULTITEXT

The research question:

Transmission and the Homeric Question
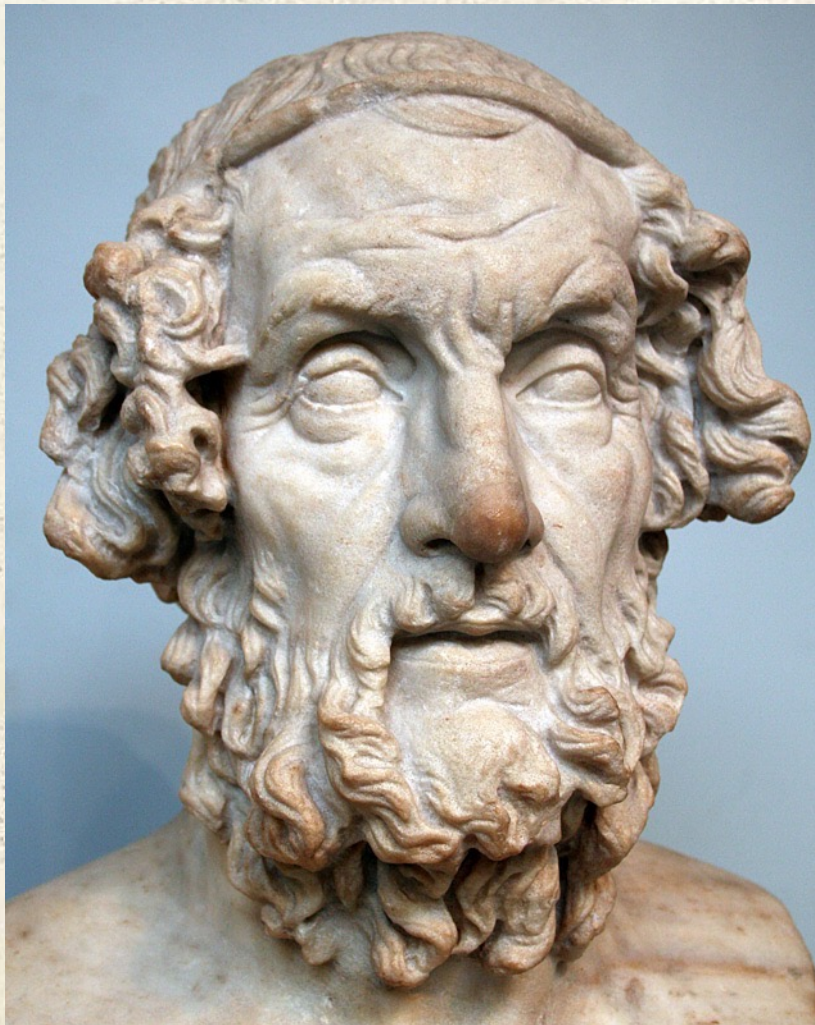

Image from Wikimedia Commons

- who was "Homer"?

- textual criticism

- manuscript transmission

- an oral tradition

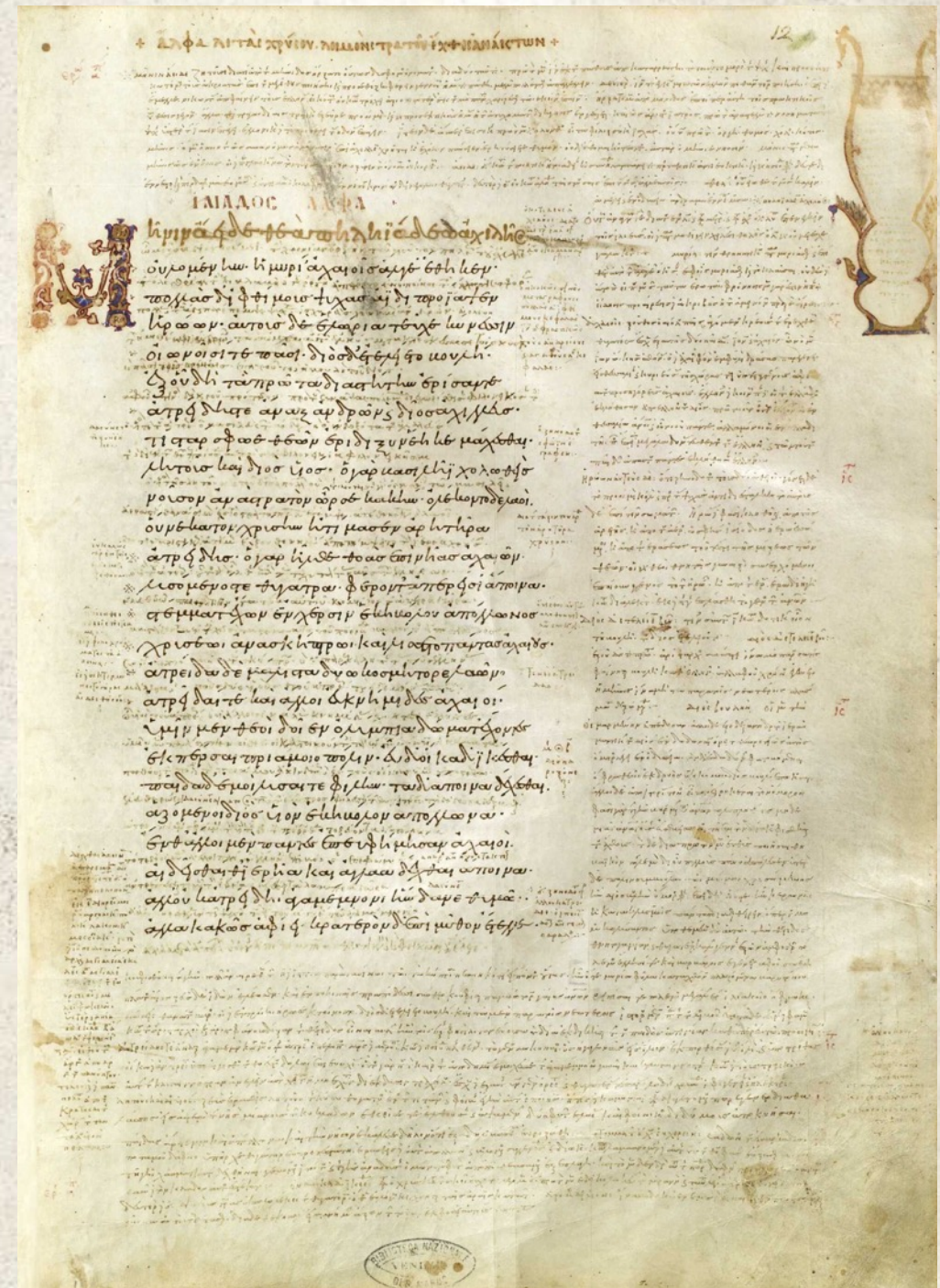# A proposed answer:

The Homer Multitext

Center for Hellenic Studies (Harvard University)
http://www.homermultitext.org/

Representing Multiformity

- digital data

  - photography

  - diplomatic editions

  - related data

- open access

  - CC BY-SA

- standards-based technology

The digital structure

CITE Architecture

- <u>C</u>ollections, <u>I</u>ndexes and <u>T</u>exts

- method of citing and linking discrete texts and objects

- Canonical Text Service URN for every text

  `urn:cts:greekLit:tlg0012.tlg001:1.10-1.20`

- Collection URN for every object

  `urn:cite:hmt:u4img.U4004RN-0007@0.46,0.3028,0.127,0.0323`

- CITE Index links URNs with each other and other data

  - triples: nodes connected by arcs

CITE Architecture

- developed for the Homer Multitext project

- now used by many other projects, including Open Greek and Latin at Universität Leipzig
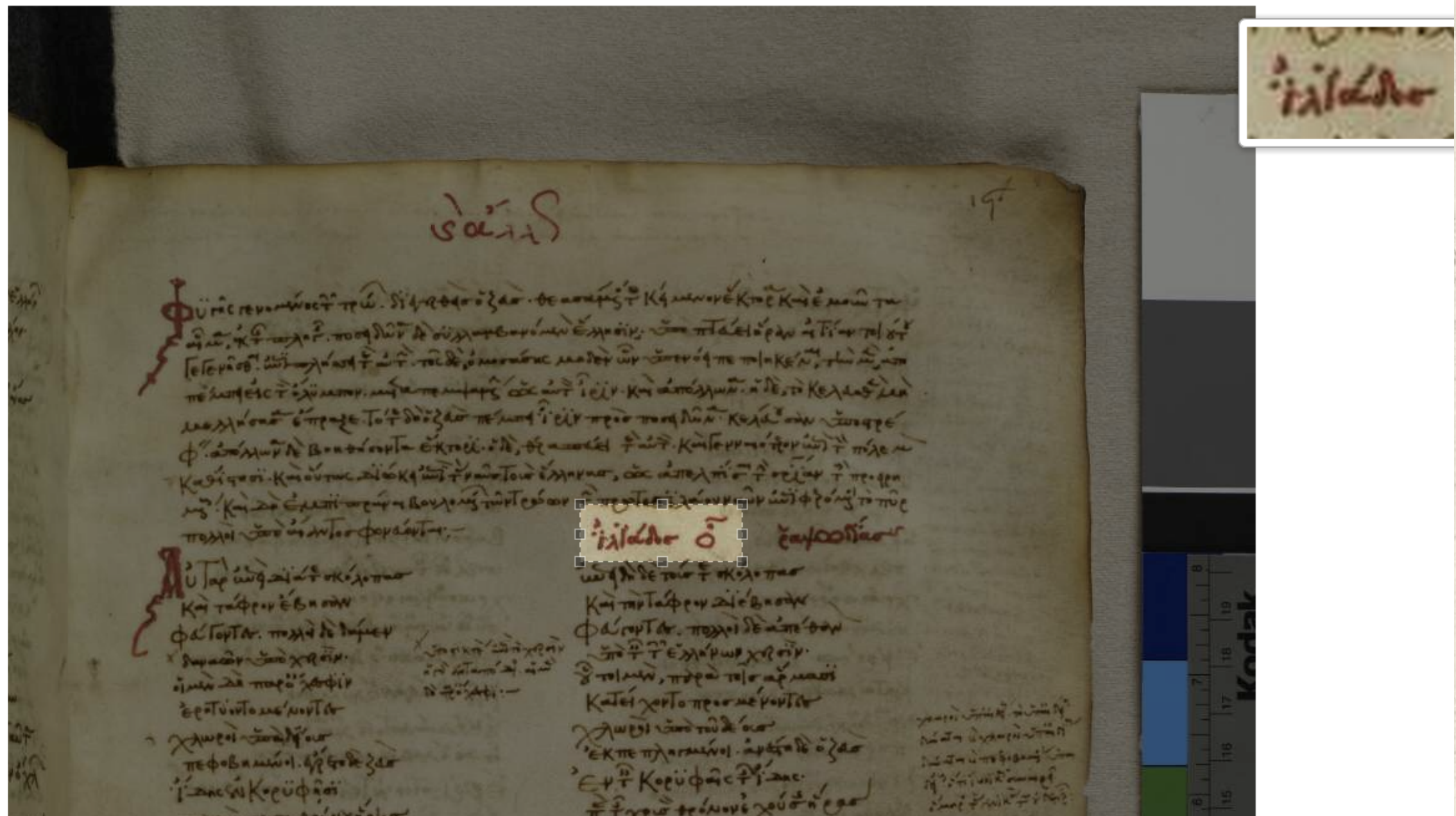
The digital data

Image Citation

Image Citation Tool

Right-click here to copy URN

urn:cite:hmt:u4img.U4004RN-0007@0.458,0.3005,0.131,0.0353

Focus on Selection | See Selection | Selection in Context

Venetus A 15 in Github

https://github.com/HCMID/venA-15

Venetus A 15 in Github

```xml
1   <?xml version="1.0" encoding="UTF-8"?>
2   <?xml-model href="http://www.tei-c.org/release/xml/tei/custom/schema/relaxng/tei_all.rng" schematypens="http://relaxng.
3
4   <?xml-stylesheet type="text/css" href="../../css/tei-iliad.css"?>
5   <TEI xmlns="http://www.tei-c.org/ns/1.0">
6     <teiHeader>
7       <fileDesc>
8         <titleStmt>
9           <title>Iliad</title>
10          <editor>Nikolas Churik</editor>
11          <editor>Charlie Schufreider</editor>
12        </titleStmt>
13        <publicationStmt>
14          <p>Unpublished edition of the Venetus A manuscript for the Homer Multitext project</p>
15        </publicationStmt>
16        <sourceDesc>
17          <p>Edited directly from photography of the manuscript</p>
18        </sourceDesc>
19      </fileDesc>
20    </teiHeader>
21    <text>
22      <body>
23        <div n="15">
24          <l n="1">Αὐτὰρ ἐπεὶ διά τε σκόλοπας καὶ τάφρον ἔβησαν</l>
25          <l n="2">φεύγοντες. πολλοὶ δὲ δάμεν Δαναῶν ὑπο χερσὶν.</l>
26          <l n="3">οἱ μὲν δὴ παρ' ὄχεσφιν ἐρητύοντο μένοντες</l>
27          <l n="4">χλωροὶ ὑπαὶ δείους. πεφοβημένοι· ἔγρετο δὲ <persName n="urn:cite:hmt:pers.pers8"
28            >Ζεὺς</persName></l>
29          <l n="5"><placeName n="urn:cite:hmt:place.place89">Ἴδης</placeName> ἐν κορυφῇσι. παρα
30            χρυσοθρόνου <persName n="urn:cite:hmt:pers.pers116">Ἥρης</persName>·</l>
31          <l n="6">στῆ δ' ἀρ ἀναΐξας· ἴδε δὲ <rs type="ethnic" n="urn:cite:hmt:place.place6"
32            >Τρῶας</rs> καὶ <rs type="ethnic" n="urn:cite:hmt:place.place96">Ἀχαιοὺς</rs>.</l>
33          <l n="7">τοὺς μὲν ὀρινομένους. τοὺς δὲ κλονέοντας ὄπισθεν·</l>
34          <l n="8"><rs type="ethnic" n="urn:cite:hmt:place.place114">Ἀργείους</rs>. μετὰ δέ σφι
35            <persName n="urn:cite:hmt:pers.pers47">Ποσειδάωνα</persName> ἄνακτα·</l>
36          <l n="9"><persName n="urn:cite:hmt:pers.pers172">Ἕκτορα</persName> δ' ἐν πεδίῳ ἴδε κείμενον
37            ἀμφὶ δ' ἑταῖροι</l>
38          <l n="10">εἵαθ'. ὁ δ' ἀργαλέῳ ἔχετ' ἄσθματι. κῆρ, ἀπινύσσων·</l>
39          <l n="11">αἷμ' ἐμέων. ἐπεὶ οὔ μιν ἀφαυρότατος βάλ' <rs type="ethnic"
40            n="urn:cite:hmt:place.place96">Ἀχαιῶν</rs>·</l>
41          <l n="12">τὸν δὲ ἰδὼν ἐλέησε πατὴρ ἀνδρῶν τε θεῶν τε·</l>
42          <l n="13">δεινὰ δ' ὑπόδρα ἰδὼν <persName n="urn:cite:hmt:pers.pers116">Ἥρην</persName> πρὸς
43            μῦθον ἔειπεν·</l>
```

Venetus A 15 in Github

Publishing the data

HMT Archive

homermultitext / **hmt-archive**

Archival data from the Homer Multitext project

🕐 **111** commits	⑁ **3** branches	🏷 **0** releases	👥 **1** contributor

⑃ | ⑁ branch: **master** ▾ | **hmt-archive** / + | ☰

Update Iliad editions with full named entity tagging for 2014-2.

St. Isidore of Seville Research Lab authored on Sep 26, 2014   latest commit a052d05ae0 📋

📁 cite	Add Iliad 5 indexing.	7 months ago
📁 editions	Update Iliad editions with full named entity tagging for 2014-2.	7 months ago
📁 inventories	Comment out Proclus for 2014.1 publication.	a year ago
📁 src	Add book 8 material.	a year ago
📁 teiHeaders	Add headers for E3.	a year ago
📁 testdata	Pass all unit tests.	a year ago
📁 utils	Add util for converting old scholia editions of VenA to use complete …	a year ago
📄 README-version-guide.md	Remove tokenization from build of 2014.1 publication.	a year ago
📄 README.md	Test authorization.	8 months ago
📄 build.gradle	Adjust versions.	a year ago
📄 conf.gradle	Update to work with CTS 5.0 spec	a year ago
📄 pub.gradle	Add initial build of composite Venetus A Iliad.	a year ago
📄 versions.gradle	Adjust versions.	a year ago

https://github.com/homermultitext/hmt-archive

Navigating the data

HMT Digital

First publication of software for HMT services

In February, we announced the first publication of the HMT project's archival data. Today, we are releasing the first published version of hmt-digital, a java servlet providing digital services for working with the project archive.

Version 1.0 is now installed at http://www.homermultitext.org/hmt-digital, where you can routinely expect to find the currently published services using the currently published version of the data archive. We continue to run a test site at http://beta.hpcc.uh.edu/tomcat/hmt-digital/. The test set normally runs in-progress versions of hmt-digital, and uses unpublished versions of our data archive.

Our software, like all the data in our archive, is openly licensed. If you'd prefer to run a local installation of the hmt-digital services, you'll find instructions on the README for the project's github repository.

Links

- HMT project installation of hmt-digital 1.0: http://www.homermultitext.org/hmt-digital
- github repository: https://github.com/homermultitext/hmt-digital

Posted by Neel Smith at 11:45 AM   No comments:

M B t F @   g +1   Recommend this on Google

http://homermultitext.blogspot.de/2014/08/first-publication-of-software-for-hmt.html

HMT Digital

Browse manuscripts

Start from MS page

Page URN `urn:cite:hmt:msA.12r` [See facsimile]

Start from *Iliad* line

book.line `1.1` [See occurrences]

Read scholia

Look up by full URN reference for *Iliad* passage (including MS)

Text passage URN `urn:cts:greekLit:tlg0012.tlg001.msA:1.1` [See texts]

Other utilities

- See an automatically generated summary of archival material (with links to browse contents)
- Look up material by URN

http://www.homermultitext.org/hmt-digital/

The sources

Manuscripts and Papyri

- 7 mss currently available to the project

    - Venetus A

    - Venetus B

    - Y.1.1

    - Ω.1.12

    - Codex Bodmer 85

    - Geneva MS Gr. 44

    - Marciana 841

- 1 sheet of papyrus

    - Bankes papyrus

A Large Corpus

- the *Iliad* contains:
  - 24 books
  - 15,693 lines

- in terms of pages:
  - Venetus B for example: 338 folia

Building a Community

Collaboration

- "Although the model for Homeric research is most often that of the individual genius working alone, we suggest that the kind of collaboration that is at the heart of the Multitext allows for a higher quality of research and analysis that can be accomplished in a more timely manner." (Ebbott and Dué 2009)

- list of collaborating institutions

Collaborators

- Multiple academic generations:
  - Professors and researchers
  - Graduate students
  - Undergraduate students

College of the Holy Cross

- Worcester, MA

- undergraduate, liberal arts college

- largest undergraduate classics program

Image from http://www.holycross.edu/
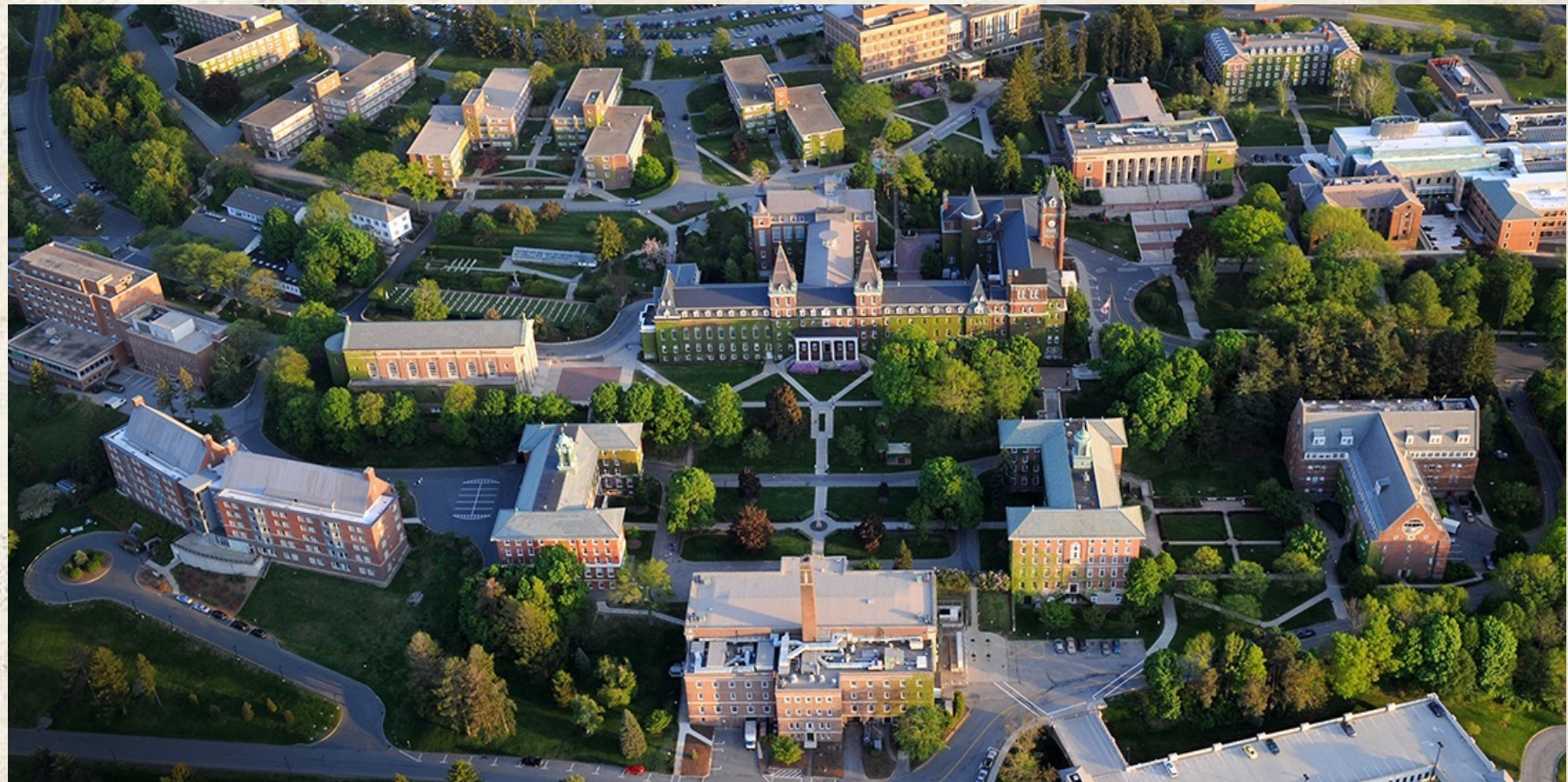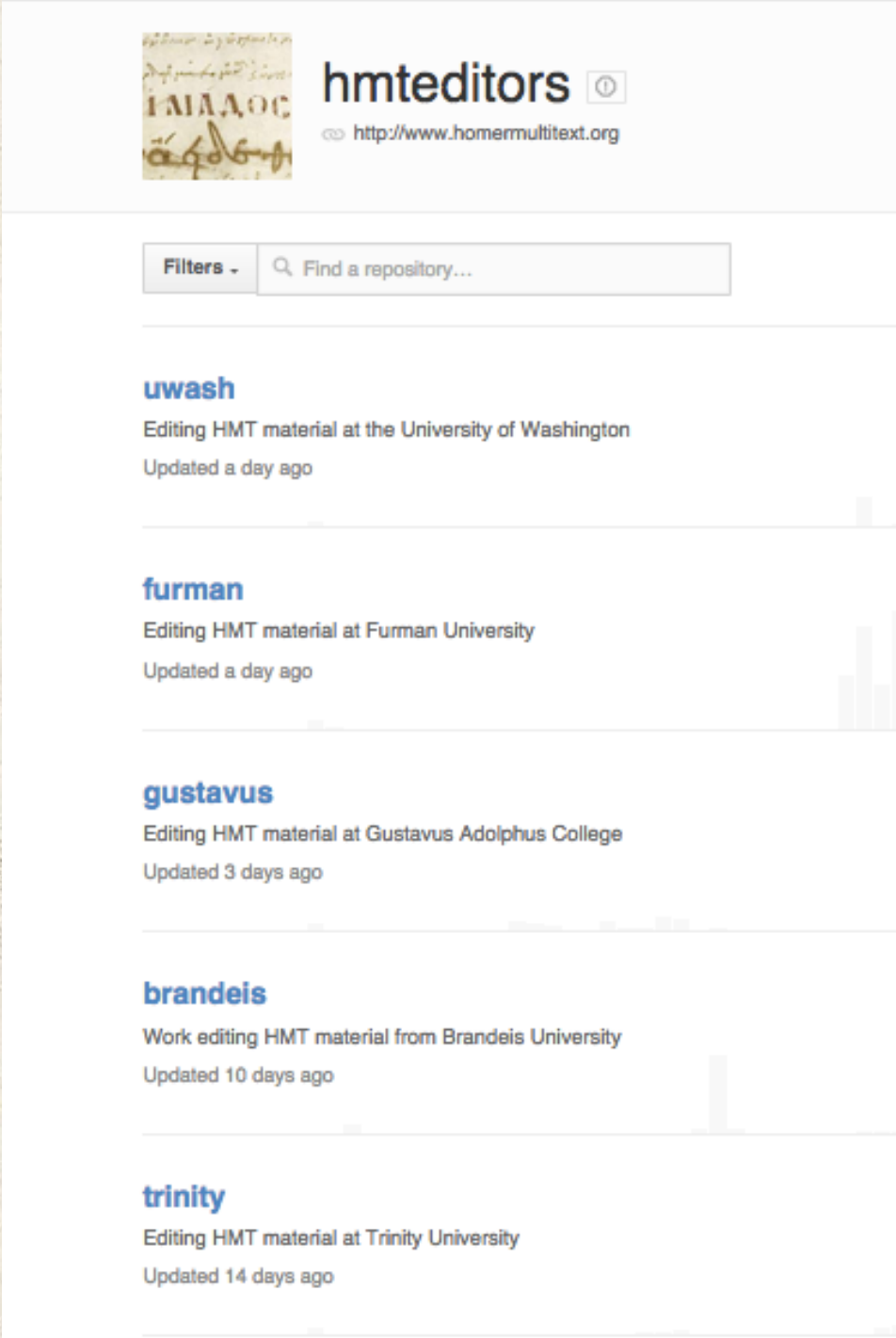
Collaborators

- College of the Holy Cross

- Furman University

- Brandeis University

- University of Washington

- Trinity University in San Antonio

- Gustavus Adolphus College

- Universiteit Leiden

hmteditors ⓘ
http://www.homermultitext.org

Filters ▾   🔍 Find a repository…

uwash
Editing HMT material at the University of Washington
Updated a day ago

furman
Editing HMT material at Furman University
Updated a day ago

gustavus
Editing HMT material at Gustavus Adolphus College
Updated 3 days ago

brandeis
Work editing HMT material from Brandeis University
Updated 10 days ago

trinity
Editing HMT material at Trinity University
Updated 14 days ago

Supporting this Community

Organization

- Academic year
  - volunteers
  - student organizations
  - classes

- Summer
  - summer research programs
  - intercollegiate summer seminar

Workflows

- contributing to different parts of the project according to current skills

  - inventorying lines

  - creating composite images

  - identifying scholia

  - transcribing text

- git for managing multiple contributions from multiple editors

Github and Classics Data

Got git?

Over the past several years, github (https://github.com/) has emerged as the primary site for sharing openly licensed software. More recently, it has begun to assume a comparably important role in sharing openly licensed data; from the perspective of the Homer Multitext project, it's tempting to say that you can have "as many githubs as you please." (For a few examples of open datasets on github ranging from wedding invitations to arrangements of organ accompaniment for Gregorian chant, see this recent article.)

While the Homer Multitext project has relied on publicly available version control systems for years, and has specifically used the git version control system since 2012, we have only recently taken advantage of github's option to group repositories by organization. To simplify the task of following the varied work in progress connected with the HMT, we have created two github organizations, homermultitext and cite-architecture.

1. Repositories for the HMT data archive and digital services of the Homer Multitext project belong to the homermultitext organization. See http://homermultitext.github.io/.
2. The CITE architecture is a generic architecture for working with citable scholarly data. It was originally developed specifically for the Homer Multitext project, and underpins all the digital work on HMT. See links to its repositories at http://cite-architecture.github.io/.

If you are new to version control in general or git in particular, you can probably find local expertise on your college or university campus; a little googling for help will certainly turn up an embarrassment of riches.

Christopher Blackwell and Neel Smith, project architects

Posted by Neel Smith at 6:14 PM   3 comments: ✉

M ✉ t f ⦿ g+1 Recommend this on Google

Labels: github, version control

http://homermultitext.blogspot.de/2014_03_01_archive.html

Resources

- guides actively produced and updated by contributors
  - paleographic guides
  - style guides
  - XML guides

- workshops scheduled at the start of the semester

- more experienced editors present for answering questions
  - in person
  - email
  - Google discussion group
  - Hangout

Verification

- human:
    - groups checking each other's work
    - stylesheets to produce useful displays

- automated:
    - Github confirms valid CSV structure
    - Oxygen confirms valid XML structure
    - Gradle confirms data is properly structured when building the RDF graph
    - Concordion

Image from the Homer Multitext Blog: http://homermultitext.blogspot.de/2012/07/verifying-inventory-of-scholia.html

Contributor Benefits

Takeaways

- casual publications

  - Homer Multitext Blog: http://homermultitext.blogspot.com

- more formal presentations and publications

- experience with

  - research

  - Greek

  - paleography

  - codicology

  - etc.
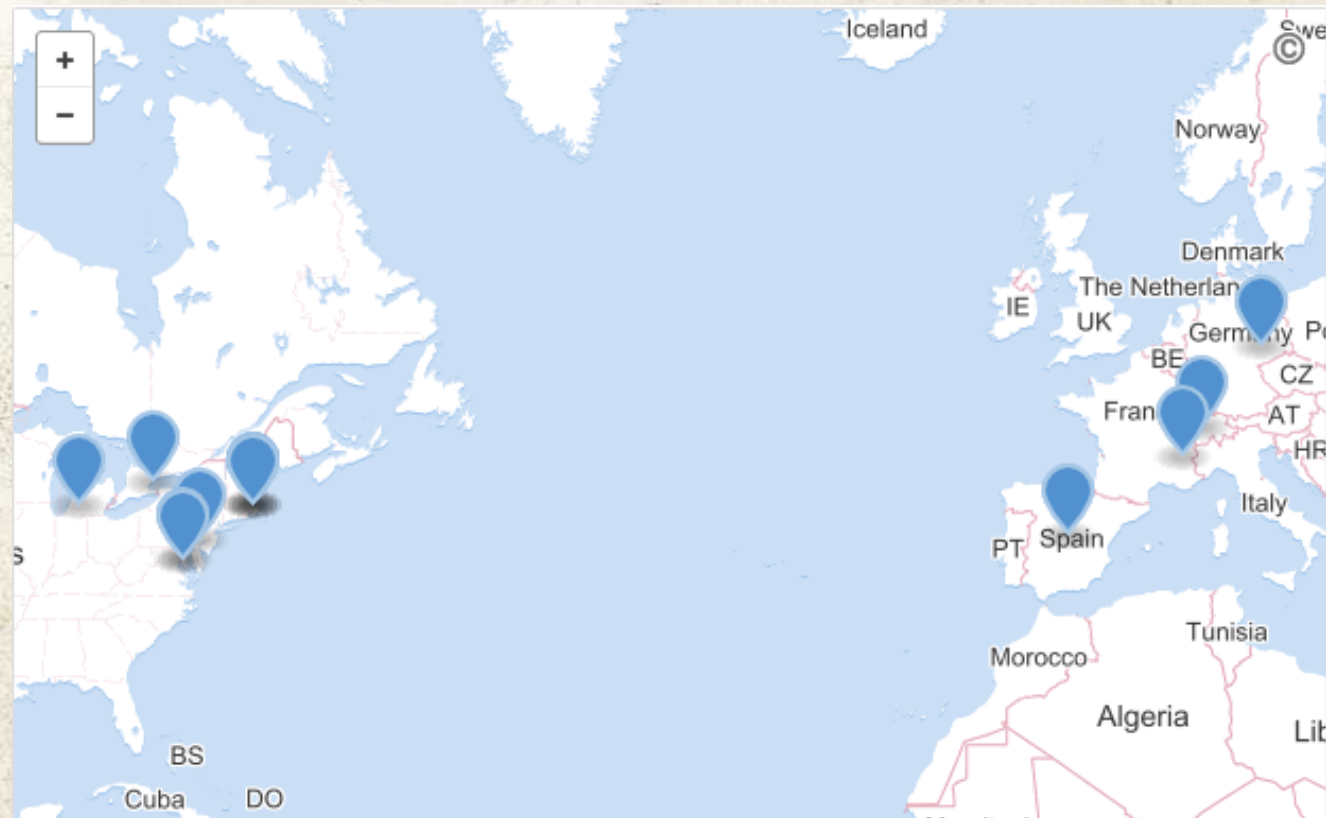
Related Projects

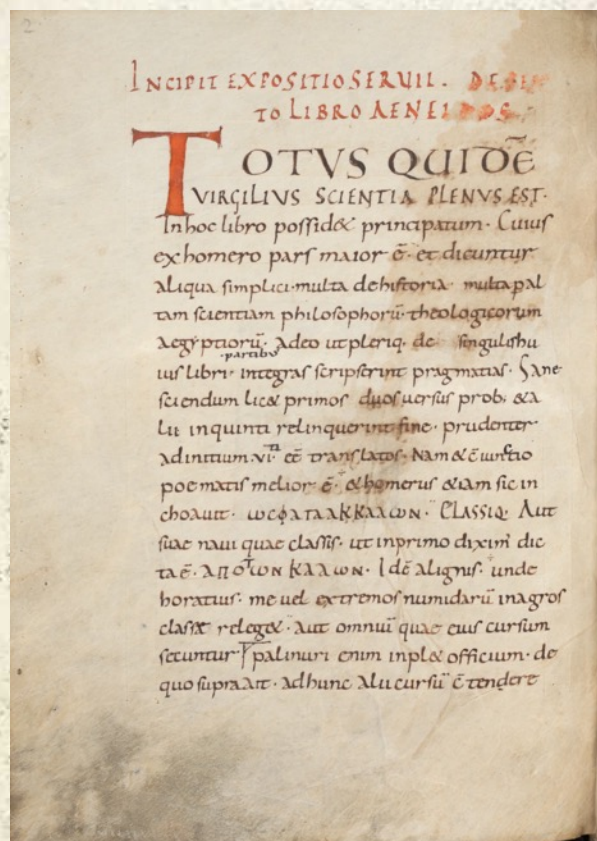# HC's Manuscripts, Inscriptions, and Documents Club

- website: http://hcmid.github.io/

- ongoing projects:
  - Homer Multitext
  - Latin epigraphy
  - Greek epigraphy
  - Jerome
  - Archimedes / Greek math

- open community not limited to classics majors

Manuscripts Challenge

- a part of HC's Classics Day

- challenge posed to high school students

Cod. Sang. 861

Cod. Bodmer 124

VadSlg Ms. 307

Looking forward

Great for future researchers

hmteditors / **alums1**

Work editing HMT material from a distributed group of HMT project veterans

- several contributors have gone on to grad school

- some remain involved in HMT or related projects

But not only for researchers

- secondary education

- law school

- medical school

- libraries

- museums

- seminary

- etc.

Potential Projects

Thank you!