What is digital scholarship?

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Liss LaFleur

Join us for a talk by creative resident and feminist artist Liss LaFleur, exploring #MeToo through stained glass.

Thursday, September 13, 9:30 a.m. Hunt Library, Teaching and Visualization Lab



Digital Scholarship Workshop Series

SEP

14

Understand and Build Your Scholarly Identity

September 14

10:00 AM to 11:30 AM

AT THE

ITTC Lab 1A, D. H. Hill Library



26

The Open Science Framework for Researchers

September 26

1:00 PM to 2:00 PM

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ОСТ

31

Generative Art Coding Workshop

October 31

1:00 PM to 3:00 PM

AT THE

ITTC Lab 2, D. H. Hill Library

go.ncsu.edu/dsworkshops

- Goal explore new and emerging characteristics of contemporary research practices

Big Data

- ¶ 1 Previous section: The Joys of Big Data for Historians
- ¶2 "How big is big?" we rhetorically ask: big data for literature scholars might mean a hundred novels ("the great unread"),[1] for historians it might mean an entire array of 19th century shipping rosters,[2] and for archaeologists it might mean every bit of data generated by several seasons of field survey and several seasons of excavation and study the materials that don't go into the Geographic Information System. For computer scientists, they are often focused not just on materials of a scope that can't be read, but on volumes of information that elude processing by conventional computer systems, such as Google's collection or the shocking amount of information generated by experiments such as CERN's Large Hadron Collider.
- ¶3 For us, as humanists, big is in the eye of the beholder. If it's more data that you could conceivably read yourself in a reasonable amount of time, or that requires computational intervention to make new sense of it, it's big enough!

 These are all valid answers. Indeed, there is some valid hesitancy around the use of the term 'data' itself, as it has a faint whiff of quantifying and reducing the meaningful life experiences of the past to numbers. We believe that this book outlines various methods to computationally explore historical data in a way that would previously seem resistant to qualification. With that proviso in mind, of course, we do take 'big data' to be a central concept in this book.
- 14 As scholars, we have all used varying degrees of datasets and considered them "big." On one extreme lie the datasets that stretch the constraints of individual researchers and personal computing, such as the monumental eighty-terabyte sweep of much of the publicly-accessible World Wide Web in 2011, made available by the Internet Archive.

 [3] Such projects may require High Performance Computing and specialized software. But others work with more manageable sets of data: popular music lyrics, proposals or papers submitted to conferences, databases of dissertations, historiographical inquiries. For us, big data is simply more data that you could conceivably read yourself in a reasonable amount of time or, even more inclusively information that requires or can be read with computational intervention to make new sense of it.
- ¶5 Historians must be open to the digital turn, thanks to the astounding growth of digital sources and an increasing technical ability to process them on a mass scale.[4] Both trends are discussed in this book. Historians are collectively witnessing a profound transformation in how they research, write, disseminate, and interact with their work. As datasets expand into the realm of the big, computational analysis ceases to be "nice to have" and becomes a simple requirement. While not all historians will have to become fluent with data (just as not all historians are oral

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(0	old) Welcome!
F	Reflecting on our process
٧	Vhat this site is not
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Ir	nteractives, Code Repository
C	Original Proposal
	Original Proposed Chapters
F	inal Draft
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	The Backstory to this Volume
	Who is this volume for?
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	The Joys of Big Data for Historians
	Big Data
	Putting Big Data to Good Use: Historical Case Studies
	Early Emergences: Father Busa, Humanities Computing, and the Emergence of the Digital Humanities
	Why this All Matters Now: The Third Wave of Computational History
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	Chapter One Conclusion
	The DH Moment
	Intro to Several Key Digital History Terms
	Delving into Big Data
	Why We're All Digital Now
	Building The Historian's Toolkit

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Toronto Historical Plaques

A network visualization of the topics fitted to the texts of Toronto's Historical Plaques. Edges are positive correlations derived from the topic composition matrix generated by MALLET. The layout is by geographic coordinates, although mirrored for reasons I don't quite understand yet. Here's how it should be laid out.

i More about this visualisation

Legend:

Plaque

Positive Correlation via Topics
Community

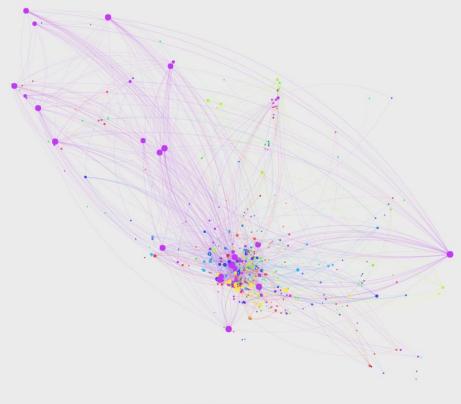
Search:

Search by name

Group Selector:

Select Group





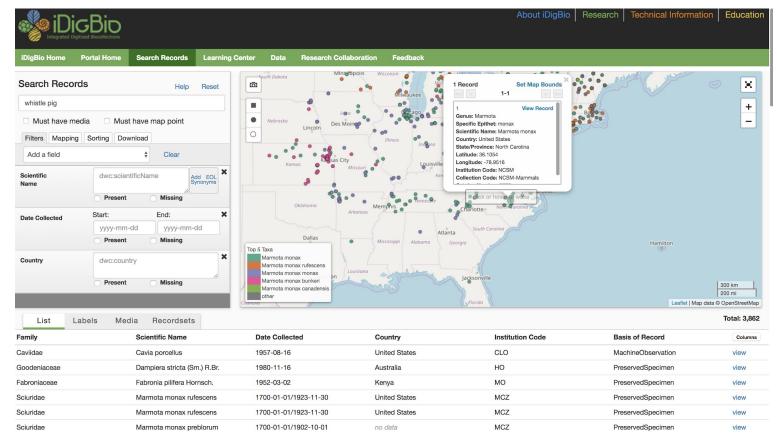
















Taxonomy	
Scientific Name	Prasiola crispa
Kingdom	Plantae
Phylum	Chlorophyta
Class	Trebouxiophyceae
Order	Prasiolales
Family	Prasiolaceae
Genus	Prasiola
Specific Epithet	crispa
Scientific Name Authors	(Lightfoot) Kützing
Specimen	
Identified By	Koster, J.Th.
Catalog Number	202409
Other Catalog Numbers	15665

DUKE

PreservedSpecimen

Collection Event		Locality			
Collected By	Geesteranus, R.A. Maas	Country	Netherlands		
Outstand by	Goodolalia, Fibri Mado	State / Province	Zuid-Limberg		
Collector Number	6880	County	Maastricht		
Date Collected	1950-03-21	Continent	europe		
		Locality	Pietersberg, Slavante		
Verbatim Date Collected	21-Mar-50	Habitat	On populus, east side, on moist stroke.		
Year	1950	Decimal Latitude	50.81957		
1		Decimal Longitude	5.696985		
Month	3	Coordinate Uncertainty In Meters	2017		
Day	21	Geodetic Datum	WGS84		
Charle David Mark	80	Georeference Remarks	maps to Sint-Pietersburg		
Start Day of Year	80	Georeferenced By	Shanna Oberreiter		

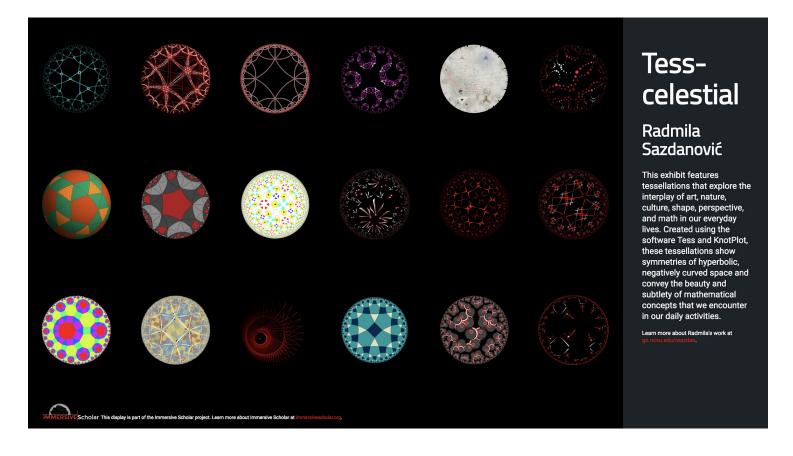
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Modified	2016-10-05 21:00:11
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dwc:collectionID	b5a0e50d-d402-462f-bfb0-77ffe9b1f9a7
dcterms:references	http://macroalgae.org/portal/collections/individual/index.php?occid=814809

Institution Code

Occurrence ID

Basis of Record



ncsu-libraries.github.io/tess-celestial/

```
storyMedia: [t.storyMedia1, t.storyMedia2, t.storyMedia3, t.storyMedia4]
61
62
      }, e
63
     },
64
     y = 1.reduce(v, \{\}),
65 -
      m = function e(t) {
66
       var r = document.guerySelector(".matrix-popup");
67 -
       if (!r.classList.contains("visible")) {
       var o = t ? this : (0, i.sample)(d.filter(function(e) {
68 -
        return !(e.classList.contains("removed") || "viewed" in e.dataset)
69
70
       }));
        o.dataset.viewed = !0, 0 === d.filter(function(e) {
71 -
72
       return !("viewed" in e.dataset)
       }).length && d.forEach(function(e) {
73 -
        return delete e.dataset.viewed
74
75
       }), o.src = o.dataset.biaSrc;
        var a = o.dataset.id,
76
77
        u = v[a]:
        document.getElementById("primary-popup-img").src = o.src;
78
79
        var s = document.querySelectorAll(".secondary-img");
80 -
        s.forEach(function(e) {
81
         return e.classList.add("removed")
82 -
       }), u.storyMedia.filter(function(e) {
83
        return "" !== e
       }).forEach(function(e, t) {
84 -
85
         s[t].classList.remove("removed"), s[t].src = n(1)("./images/"
```

⊕ 5 commits y		nches	O releases	22.1 c	2 1 contributor		र्कुः MIT	
Branch: master ▼	New pull request			Create new file	Upload files	Find file	Clone or download	
WaltGurley update	ed readme to include optimize	ation parameters				Latest com	mit 94101af 5 days ag	
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- Goal explore new and emerging characteristics of contemporary research practices

"Digital scholarship is the use of digital evidence and method, digital authoring, digital publishing, digital curation and preservation, and digital use and reuse of scholarship."

"Research and teaching that is made possible by digital technologies, or that takes advantage of them to ask and answer questions in new ways."

"Digital scholarship can only have meaning if it marks a radical break in scholarship practices brought about through the possibilities enabled in new technologies."

"Digital scholarship is project-based, collaborative, innovation-prone and embraces new modes and means of dissemination."

Group exercise!

What are digital scholarship methods?

```
NT11 Capture ▼
 NT2 Conversion
 NT2 Data Recognition
 NT2 Discovering
 NT2 Gathering
 NT2 Imaging
 NT2 Recording
 NT2 Transcription
NT12 Creation ▼
 NT2 Designing
 NT2 Programming
 NT2 Translation
 NT2 Web development
 NT2 Writing
NT13 Enrichment ▼
 NT2 Annotating
 NT2 Cleanup
 NT2 Editing
NT14 Analysis ▼
 NT2 Content Analysis
 NT2 Network Analysis
 NT2 Relational Analysis
 NT2 Spatial Analysis
 NT2 Structural Analysis
 NT2 Stylistic Analysis
 NT2 Visualization
```

```
NT15 Interpretation ▼
 NT2 Contextualizing
 NT2 Modeling
 NT2 Theorizing
NT16 Storage ▼
 NT2 Archiving
 NT2 Identifying
 NT2 Organizing
 NT2 Preservation
NT17 Dissemination ▼
 NT2 Collaboration
 NT2 Commenting
 NT2 Communicating
 NT2 Crowdsourcing
 NT2 Publishing
 NT2 Sharing
NT10 Meta-Activities ▼
 NT2 Meta: Assessing
 NT2 Meta: Community Building
 NT2 Meta: Give Overview
 NT2 Meta: Project Management
 NT2 Meta: Teaching / Learning
```

Digital **≅**Technological

Scholarship **≅** Research

Open ¥ Access

What is digital scholarship about?

Open (process, product)

Communication

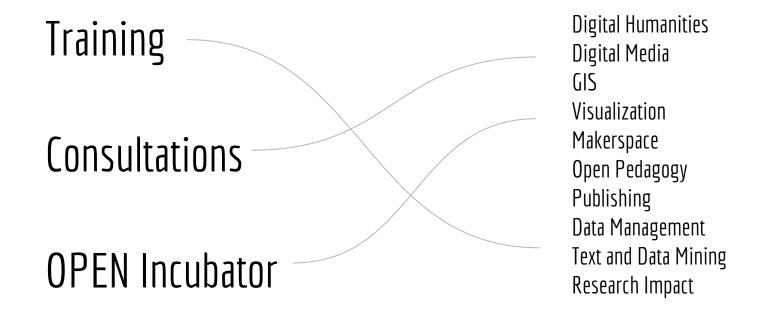
Container-agnostic

Participation

Technologies

...extends traditional methods of research by leveraging technologies (such as visualization, GIS, text and data mining) to advance research, collaboration, teaching, and learning across disciplines.

digital scholarship @ NCSU Libraries



digital scholarship @ NCSU Libraries











Digital Scholarship



the NCSU Libraries:

- Immersive Scholar
- lib.ncsu.edu/do/digital-scholarship

 - · Virtual Paul's Cross Project
 - North Carolina Architects & Builders: A Biographical
 - Shooting Wars: A Documentary of American Military
 - The Inside Wood Database
 - North Carolina Geospatial Data Archiving Project
 - Wolf Walk

- · Participate in our Open Project Incubator
- · Attend our Digital Scholarship Workshops.
- Re-use our Workshop materials.



Workshops >

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