CMS.633/833

Digital Humanities: Topics, Techniques, and Technologies

Fall 2019, Tuesdays, 2 – 5 pm, Room: 5-217

Instructor:

Kurt Fendt, Room 14N-421, office hours: Mondays 3-4 PM or by appointment, email: fendt@mit.edu

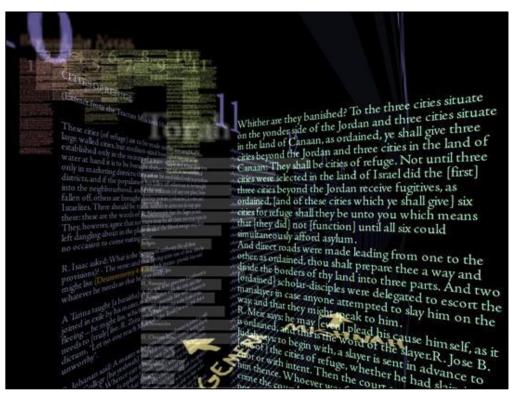
TA:

Ben Silverman, email: bsilverm@mit.edu

Website: http://cms633.github.io

Stellar Site: https://stellar.mit.edu/S/course/CMS/fa19/CMS.633

Annotation Studio: http://mit.annotationstudio.org



David Small's Talmud Project

Course description

Examines theory and practice of using computational methods in the emerging field of digital humanities. Develops an understanding of key digital humanities concepts such as data representation, digital archives, information visualization, and user interaction through the study of contemporary research in conjunction with working on real-world projects for scholarly, educational, and public needs. Students create prototypes, write design papers, and conduct user studies. Some programming and design experience is helpful but not required. Students taking graduate version complete additional assignments.

Learning Objectives

- Demonstrating, through presentations, discussions, texts, and project work an understanding of core Digital Humanities concepts;
- Engaging with complex humanities ideas, connecting them to computational approaches, and developing critical thinking across media;
- Developing basic design thinking concepts, engaging in collaborative planning, design, and project development processes;
- Learning how to critically analyze humanities content and data, and how to select appropriate computational methods, approaches, and tools in light of different use cases and audiences;
- Leaning how to use a core set of Digital Humanities tools on humanities data.

Format and Requirements

This class will consist of reading discussions, demonstrations of tools and techniques, and hands-on project work. Occasionally, we will hear from guest speakers who work in museums, libraries, and research settings. Students are expected to comment on weekly readings on the class' GitHub site (two paragraphs minimum) and actively participate in class discussions on these readings. Rather than a summary of the readings, in your comments focus on agreeing or disagreeing with key theme or assertion that you find provoking and would like to discuss in class. Also use examples, e.g. through web links to support your arguments. Occasionally, students will be asked to annotate readings using the tool Annotation Studio (http://mit.annotationstudio.org). Before coming into class, **everyone** should read and think about the other students' comments in preparation for the class discussion. Taking turns, students will lead the weekly reading discussions by briefly introducing the readings (you are allowed use slides to summarize the core arguments and the students' reactions) and discuss them in light of the online comments by fellow students.

Small teams will be formed to work on a range of smaller projects in the first half of the semester. The second half of the semester will focus on developing the final small group project which will be selected mid-semester and will have to be completed by the end of the term. The final project will consist of a working digital prototype and a 15-page design paper.

Grades will be based on the following criteria:

- Final project (40%), including design paper and digital prototype
- Short projects (20%)
- Reading comments (15%)
- Presentations and project updates (10%)
- Class participation (15%)

Attendance and Participation

You are expected to attend class meetings regularly and on time, to complete assignments *before* class (post your reading comments, project updates, etc. by 9:00 PM on Monday), and to contribute actively and thoughtfully in class discussions. Participation includes sharing your own thoughts and listening closely to your classmates. Active participation is required and the effect on your grade will be determined by how often you engage in class discussion and how carefully you have read and thought about the assigned readings. Always bring a copy of the assigned readings to class each week or bring a laptop with the readings. Unexcused absences and habitual tardiness will affect your grade.

Please email the instructor in advance if you need to miss class due to illness or family emergency. Class attendance is required. Unexcused absences result in a lower grade. There will be no final exam in the class.

Avoid *plagiarizing*. **Plagiarism** is the use of another's intellectual work without acknowledgment. Full acknowledgment for all information obtained from sources outside the classroom must be clearly stated in all written work submitted. All ideas, arguments, and direct phrasings taken from someone else's work must be identified and properly footnoted. Use quotation marks to identify all sources of wording that are not yours. Identify sources of ideas with appropriate footnoting. Plagiarism receives an F in the subject, the instructor is required to forward the case to the Committee on Discipline. See http://cmsw.mit.edu/writing-and-communication-center/avoiding-plagiarism/ for more information.

The WCC at MIT (Writing and Communication Center) offers *free* one-on-one professional advice from lecturers (who all have advanced degrees and who are all are published writers) about all types of academic, creative, and professional writing and about all aspects of oral presentations (including practicing your presentations). We help you think your way more deeply into your topic, no matter what department or discipline you are in. The WCC is located in Kendall Square (E18-223, 50 Ames Street). To register with our online scheduler and to make appointments, go to https://mit.mywconline.com/. To access the WCC's many pages of advice about writing and oral presentations, go to https://cmsw.mit.edu/writing-and-communication-center/. The Center's core hours are Monday-Friday, 9:00 a.m.-6:00 p.m.; evening hours vary by semester—check the online scheduler for up-to-date hours.

Class schedule (preliminary)

(Note: This is a preliminary syllabus; fine-tuning and changes in schedule or readings may occur. You will be notified if major changes need to be made.)

Date	Topics	Readings/Assignments
September 10	Introduction to Digital	Assignments:
-	Humanities	Readings (on Stellar & some on Annotation Studio):
	Sample DH projects	• Read "A Short Guide to the Digital_Humanities
	DH Exercise: Turning Tarot	(p.121-125) in Digital_Humanities
	cards into a digital object.	• Read Digital_Humanities, chapter 1 (pp. 3-26)
	Guest Speaker: <i>Emilie</i>	U read: pp. 3-16; G : read in addition: pp. 16-26
	Hardman, MIT Archives.	Group project: Digital Tarot project (see handout)
September 17	Digital Transformations:	Assignments:
	From physical object to	Annotate Vannevar Bush, "As We May Think" in
	digital artefact:	Annotation Studio
	Digitizing Tarot – discussion	(http://mit.annotationstudio.org)
	of project ideas.	Christof Schöch: Big? Smart? Clean? Messy? Data
		in the Humanities , in: Journal of Digital
	Introduction to Final Projects	Humanities, Vol. 2, No. 3 Summer 2013
		G: Miriam Posner: Humanities Data: A Necessary Control lighter - Lune 25, 2015, Miriam Posner of Blance
		Contradiction , June 25, 2015, Miriam Posner's Blog Readings:
September 24	Data mining of open	• Johanna Drucker: <i>Data as Capta</i> , Los Angeles,
	content I:	2010 (Stellar)
	Working with APIs	U Read: HUMANITIES APPROACHED TO GRAPHICAL
	Working with Aris	DISPLAY (5 Pages)
	Due in at Bitale a	G Read rest of Drucker text
	Project Pitches	• D. Boyd, K. Crawford: Six Provocations for Big
		Data (2011)
October 1	Data mining of open content	Readings: • Daniel Rosenberg and Anthony Grafton,
	III:	
	Data Scraping	Cartographies of Time, Chapter 1: "Time in Print"
	Defining Final Projects	G. Also read Chapter 2
October 7	Mapping Time – Data	Readings:
	Visualization I:	• Edward Tufte, Envisioning Information, "Color
	Representation of time	and Information"
		Tools:
	Final Project Pitches	• TimeMapper
		• SIMILE Timeline
		• D3 or other tools
		Assignment: Spatial ethnographies
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October 15	Columbus Day Vacation	140 61433

Date	Topic	Readings/Assignments
October 22	Mapping Space – Data	Readings:
	Visualization II:	David J. Bodenhamer, The Potential of Spatial
		Humanities; pp. 14-31;
	Mapping Literature and other	• MARIA POPOVA: W.E.B. Du Bois's Little-Known,
	data	Arresting Modernist Data Visualizations of Black Life
		for the World's Fair of 1900 (www.brainpickings.org)
		Tools:
		CartoDB
		Google Fusion Tables/Maps/Earth Pro
		Mapbox, TileMill, etc.
October 29	Data Visualization III:	Readings:
		Dario Rodighiero: Mapping Affinities in Academic
	Network Graphs and other	Institutions, 2018, frontiers
	visualization techniques	Jeffrey M. Binder, "Alien Reading: Text Mining,
		Language Standardization, and the Humanities", in:
	Guest speaker: Dario	Debates in the Digital Humanities, 2016 edition,
	Rodighiero, MIT Post Doc,	http://dhdebates.gc.cuny.edu/debates/text/69
	CMS/W	Assignment:
		Work with text analysis tools and digital texts (see assignment)
		Tools:
		Stanford Named Entity Recognizer (NER)
		Voyant Tools
		JSTOR Lab Tools
November 5	Text as Data	Readings:
itovember 5	Methods of textual analysis	Marti Hearst: What Is Text Mining? (2003)
	Wethous of textual unarysis	Marti Hearst: Untangling Text Data Mining (1999)
		• G: Katherine Hayles: <i>How We Read: Close, hyper,</i>
		Machine, ADE Bulletin, (150) 2010, pp. 62-79
		• Ahmed Elgamma et al. <i>The Shape of Art History in the Eyes of the Machine</i> , conference paper, (2018)
		Lisa Gitelman (ed.), "Raw Data" Is an Oxymoron,
		Introduction (Cambridge, Mass, MIT-Press, 2013, 1-14)
November 12	Design Thinking Approaches to	Readings:
	Project Development	• Katja Tschimmel: <i>Design thinking as an</i>
	Design process:	effective toolkit for innovation (2012)
	Prototyping and wireframing	Matt Kirschenbaum, "So the Colors Cover
	Final Projects:	the Wires": Interface, Aesthetics, and
	Short write-up of project	<u>Usability</u>
	progress, brief in-class	• G: Johanna Drucker, Performative Materiality and
	presentation	Theoretical Approaches to Interface, 2013
	Final Projects:	• Human-centered Design Toolkit, "Hear," pp. 29-68
	Presentation of Design Sketches,	
	initial technology	
	implementations	

Date	Topic	Readings/Assignments
November 19	Data, Archives, Society Guest Speaker: Ben Silverman	Readings: • TBD Assignment: Prepare presentation of digital prototype
	Final Projects: Presentation of Design Sketches, initial technology implementations	
November 26	Final project in-class work time, Presentation of digital prototype, refinement of prototype, brief presentation & feedback in class	Assignment: Written summary of project progress, work on Digital Prototype
December 3	Final project in-class work time Presentation of prototypes (dry run)	Assignment: • Draft of final paper
December 10	Final project in-class work time	Assignment: • Final project Presentation and Design Document due