

The Future of Digital Humanities



B8 - Digital Humanities – WISE Fall 2019

Course schedule

Date	Topics
10/29	Introduction Definition and history of Digital Humanities
11/5	Digital Humanities and the study of literature
11/12	Digital Humanities and the study of history
11/19	Digital humanities in the study of art, music, and other disciplines
11/26	What's ahead, or why hasn't artificial intelligence been able to figure out the Finnish language yet?



Info

- Course materials
- Course slides and related materials are available on http://queenlake.com/wise/wise-fall-2019/digital-humanities/.
- Contact information
- Karl Hakkarainen
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 508 829 5825



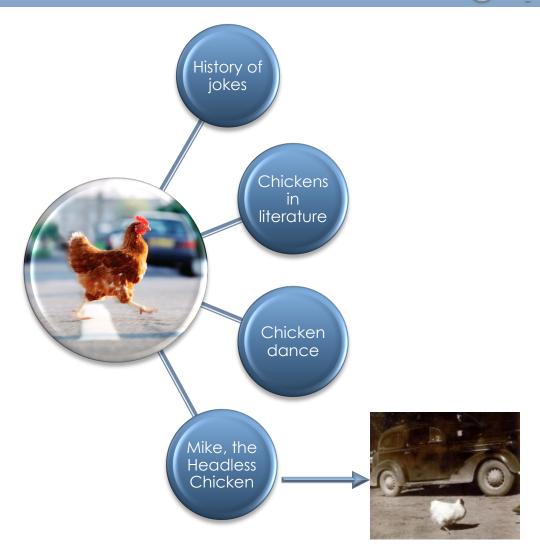


How much computing power is required for AI-Da/

Answer: Not published



Research starts with an interesting question







Analysis





Communicating the results



I WANT NOTHING. I WANT NOTHING. I WANT NO QUID PRO QUO.

If you realize you have a hard time focusing and paying attention to the things that are important to you. Make a plan to get out of your head and into the environment where you live. Now. When you're ready to step in and take action.

If you need help with anxiety, I have a successful podcast with my wife Steph where we talk about anxiety, let you know if your anxiety is real and gives you tools to manage your anxiety. If you're willing

What happens when you feed Trump's "I WANT NOTHING" note to a Neural Network?



Harlemin Suom. Ev. Luth. Srk.

359 East 62nd Street
Pappila: 304 East 93rd Street, Phone ATwater 9-7733

Sunnuntaina 8 p. tammik. Jumalanpalvelus 4.30. Saarnaa pastori ILTAJJUHLA kello 7.30, ohjaa Miss Hida Myllys.

Vesper-harjoitukset kuorolla tiistaisin kello 8.30.

Hartaushetki torstaina 5 pnä tammikuuta.

Seurakunnan vuosikokous on torstaina 12 p. tammikuuta.

Seurakunnan vuosikokous on torstaina 12 p. tammikuuta.

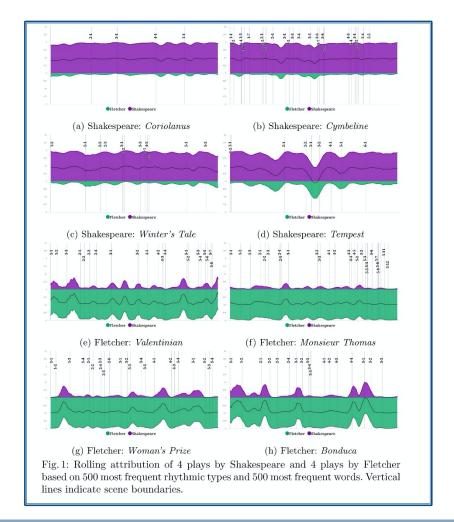
Jaapanin Lähetysjuhlaa vietetään 15 pnä tammikuuta.
Seurakunnan 45-vuotisjuhlat ovat tammik. 21—22 p:nä,
alkaen lauantaina klo 8 edustajien tervehdyksillä. Sunnuntaina
Juhlajumalanpalvelus Pietarin Luth. kirkossa. Saarnaa past. R
Wargelin. Vesper-esitys illalla.

Arvi Henry Saarisuu.

Who knew? - ad in Raiivaaja, January 3, 1955

When Harlem was Manhattan's "Finntown"





Who wrote Henry VIII?

Relative contributions of Shakespeare and Fletcher in Henry VIII





Machine Learning for 600-year-old handwriting

<u>Start, Follow, Read: End-to-End Full-Page Handwriting Recognition</u> – BYU and Adobe Reseach





OBITUARIES

BENJAMIN RAY CHILDRESS

Liberty, SC. Benjamin Ray Childress, Sr. 92. of Route 1, Liberty, husband of Mrs. Florence Hendricks Childress, died 4:50 A.M., Monday, February 26, 1990 at Oakmont Nursing Center, East in Greenville after a short illness.

Mr. Childress was born in Pickens County, a son of the late Robert A. and Sarah Griffin Childress. He was a retired farmer and school teacher, having served as principal and trustee of several Pickens County Schools. Mr. Childress was active in the Pickens County ASC and the Pickens County Farm Bureau. He was a director of the Southside Water District and was a veteran of the U.S. Army, having served in France



Obituary notices are published as requested to accommodate those desiring more information than is provided in the accompanying news articles. Obituary notices are prepared and billed through the Classified Advertising Department at 788-4368.

during World War I. Mr. Childress was a member of Flat Rock Baptist Church where he had served as a deacon and Sunday School teacher for over 50 years.

Surviving are his wife, Mrs. Florence Hendricks Childress of the home; 3 sons, Ben R. Childress, Jr. and Robert H. Childress, both of Easley and William Edwin Childress of Raleigh, N.C.; 2 daughters, Mrs. Colleen Petti of Liberty and Mrs. Lida Finley of Easley; 12 grandchildren and 16 great-grandchildren, Mr. Childress was the last member of his immediate family.

Funeral services will be 11 AM Wednesday, February 28th, at Flat Rock Baptist Church by the Reverend John Tollison, the Reverend Marvin Murphree and the Reverend Grady Tollison. Burial will be at Hillcrest Memorial Park.

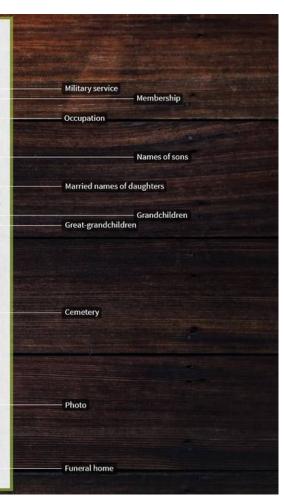
Active pallbearers will be the grandchildren. Honorary escort will be the Opportunity Class and the Young Adult Training Union Class of Flat Rock Baptist Church.

The body is at Robinson Funeral Home in Easley and will be placed in the church 10:30 AM Wednesday.

The family is at the home.

In lieu of flowers, memorials may be made to the Baptist Foundation, C/O Flat Rock Baptist Church, 115 Slab Bridge Road, Liberty, S.C. 29657.

ROBINSON FUNERAL HOME



Ancestry Taps AI to Sift Through Millions of Obituaries

262M obituaries with more than 1B names









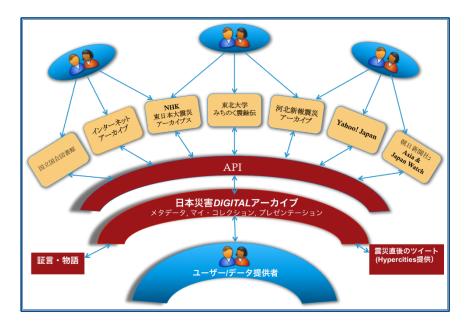
Linking Art through Human Poses

From Titian's Salome to <u>Vecellio Tiziano, Portrait of a young woman with a casket</u>



Using DH in times of crisis

Japan Disasters Archive



Puerto Rico Mapathon

Columbia's Group for Experimental Methods in the Humanities & Columbia University Libraries ask you to join us for

Puerto Rico Mapathon

for Hurricane Relief

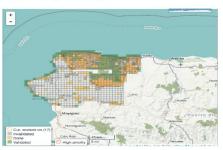
September 29, 2017 | 2PM-5PM | Studio@Butler (208B)

Come help with relief efforts on the ground in Puerto Rico by contributing your time to open-source mapping.

Following the recent hurricane, people around the world are using the OpenStreetMap platform to give their time to hurricane relief efforts. The Red Cross in Puerto Rico has requested two tasks we can help with for their relief efforts. During the mapathon, we will teach people how to help with these efforts through mapping, and we will map together.

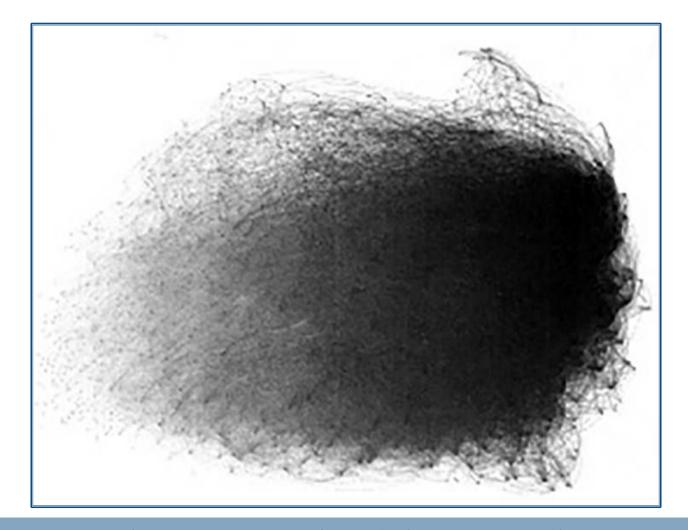
No mapping experience necessary. No knowledge of local terrain is necessary. Come any time during the afternoon.

Please bring your laptop & RSVP to agil@columbia.edu





Digital Humanities - What's Ahead



The Case Against Computational Literary Studies

<u>Nineteenth-century Novel Network with Date Shading</u>, from Matthew Jockers, Macroanalysis: Digital Methods and Literary History (Urbana, III., 2013), p. 165."



Dh&BP / anigayvli / elders

DZPL / kanoheda / also DZPJ / kanohedi / things that have been told

Dh&PR / nuniwesv / what they said

OhVVUO / unigidosanv / what they knew

OhR&COT / unisvgatlanvi / they held onto it in their mind

SJS60 / dunedeyonv / they taught

Sh6R / duniyosv / they let go of it

OPJJJ / unutedi / they picked it up

Whose data are these?

Wampum, Sequoyan, and Story: Decolonizing the Digital Archive

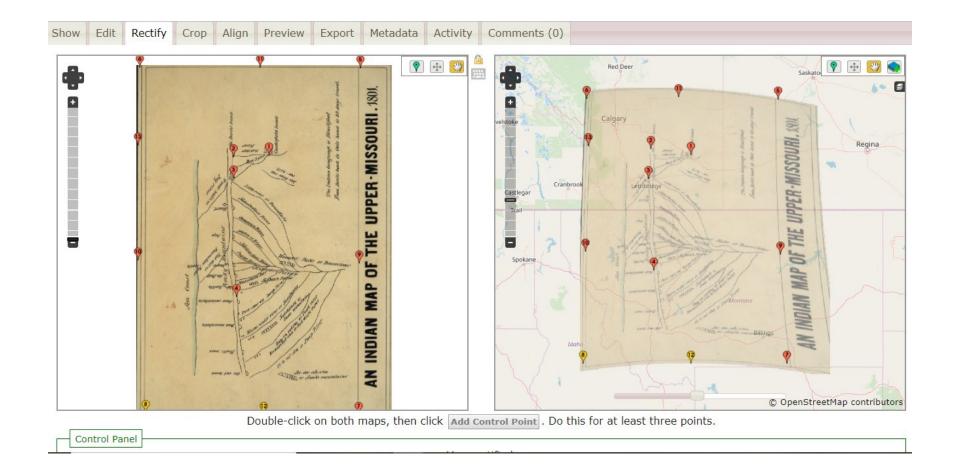




Passamaquoddy People

Including Audio rcordings made during Jesse Walter Fewkes' research trip to Maine in March of 1890





The Geospatial West: Georectifying Historical Native American Space



Humans still needed

Prisoners to train artificial intelligence as part of developing work activities

<u>Prisoners Rescuing Prisoners:</u> <u>Indexing at Utah State Prison</u>







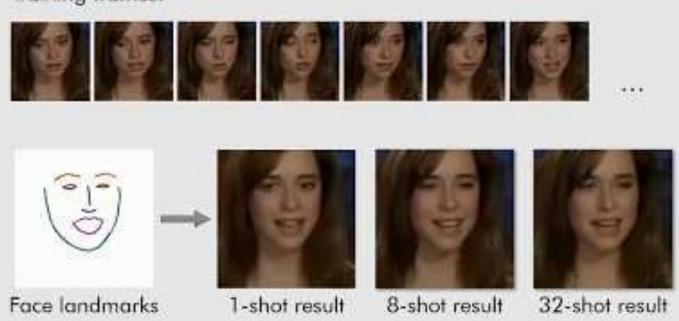


What you see ain't always what's there



Varying the number of frames

Training frames:



Few-Shot Adversarial Learning of Realistic Neural Talking Head Models

Report





Famously Dead Actor James Dean to Star in Upcoming War Drama

<u>Does RIP mean resurrected individual performance?</u>



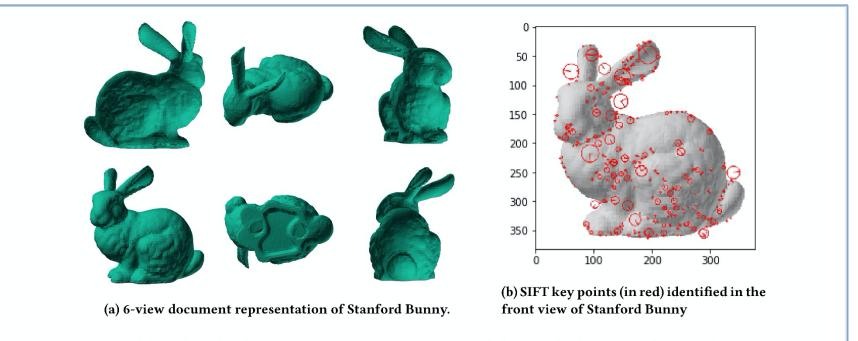


Figure 2: Retrieval based on the document representation images of the Stanford Bunny. The SIFT key points are generated for the document representation images and collected as a visual bag-of-words.

Searching Document Repositories using 3D Model Reconstruction





Google Earth gets content creation tools for geography-focused presentations



In short, explaining is a social act that has social motives and is performed according to rules and norms that serve social purposes. What counts as an explanation depends on why we're asking, and what counts as a satisfactory explanation depends on the domain we're in: doing fundamental physics research, investigating an air crash, or trying to learn from a fallen soufflé.

A.I. may not have to and may not be able to explain itself to us.

<u>Everyday Chaos: Technology, Complexity, and How We're Thriving in a New World of Possibility</u>



So my Swedish teacher showed the class this conversation from the internet. Apparently it demonstrates how easy it is to learn Swedish. I'm Finnish. 😃

English: A dog. Swedish: What?

English: The dog. English: Two dogs.

Swedish: Okay. We have: En hund, hunden, Två hundar, hundarna.

German: Wait, I wan't to try it too!

English: No, go away.

Swedish: No one invited you.

German: Der Hund.

English: I said go away.

German: Ein Hund, zwei Hunde

Swedish: Stop it!

German: Den Hund, einen Hund, dem Hund, einem Hund, des Hundes, eines Hundes, den Hunden, der Hunden

Finnish: Sup. English: NO.

Swedish: NO.

German: NO. Finn, you go away!!

Finnish: Koira, koiran, koiran, koiran, koirana, koirasta, koirasta, koiralla, koiralla, koiralla, koiran, koi

German: WHAT?

Swedish: You must be kidding us!

English: This must be a joke...

Finnish: Aaaand... koirasi, koirani, koiransa, koiramme, koiranne, koiraansa, koiraansa, koirasamme, koirassani, koirassani, koirassansa, koirassamme, koirassani, koirassani, koirastani, koirastani, koirastani, koirastani, koirastani, koirastani, koirastani, koirani, koira

English: Those are words for a dog????

Finnish: Wait! I didn't stop yet. There is still: koirakaan, koirankaan, koiraskaan, koirastakaan, koirankaan, koiraltakaan, koirankaan, k koirallekaan, koiranakaan, koiraksikaan, koirattakaan, koirineenkaan, koirinkaan, koirako, koiranko, koirassako, k koiraltako, koiralleko, koiranako, koiraksiko, koirattako, koirineenko, koirinko, koirasikaan, koiransakaan, koira koiraanikaan, koiraasikaan, koiraansakaan, koiraammekaan, koirassanikaan, koirassanikaan, koirassansakaan, k koirassannekaan, koirastanikaan, koirastasikaan, koirastansakaan, koirastammekaan, koirastannekaan, koirallanikaan, koirallanikaan, koirastanikaan, koirastani koirallammekaan, koirallannekaan, koirananikaan, koiranasikaan, koiranansakaan, koiranammekaan, koiranannekaan, koiraksenikaan, koiraksenikaan koiraksensakaan, koiraksemmekaan, koirattanikaan, koirattanikaan, koirattansakaan, koirattanmekaan, koirattannekaan, koiratta koirinesikaan, koirinensakaan, koirinemmekaan, koiraammeko, koirasaniko, koirassaniko, koirassaniko, koirassansako, koirassanmeko, koirassaniko, koirastaniko, ko koirastammeko, koirastanneko, koirallaniko, koirallaniko, koirallaniko, koirallaniko, koirananiko, koirananik koirananneko, koirakseniko, koiraksesiko, koiraksensako, koiraksemmeko, koiraksenneko, koirattaniko, koirattasiko, koirattansako, koirattanmeko, koirattanneko, koirineniko, koirinesiko, koirinensako, koirinemmeko, koirinenneko, koirasikaanko, koiranikaanko, koiransakaanko, koiranikaanko, koiranikaank kojrannekaanko kojraanikaanko kojraasikaanko kojraansakaanko kojraannekaanko kojrassanikaanko kojrassasikaanko koirassansakaanko, koirassammekaanko, koirassannekaanko, koirastanikaanko, koirastansakaanko, koirastammekaanko, koirastannekaanko, koirallanikaanko, koirallasikaanko, koirallansakaanko, koirallannekaanko, koirallannekaanko, koirananikaanko, koirananikaan koiranansakaanko, koiranammekaanko, koiranannekaanko, koiraksenikaanko, koiraksensakaanko, koiraksenmekaanko, koiraksenmekaanko, koiraksennekaanko, koiraksensakaanko, koiraksennekaanko, koiraksensakaanko, koiraksensakaanko koirattanikaanko, koirattasikaanko, koirattansakaanko, koirattammekaanko, koirattannekaanko, koirinenikaanko, koirinesikaanko, koirinesikaanko, koirattansakaanko, ko koirinemmekaanko, koirinennekaanko, koirasikokaan, koiranikokaan, koiransakokaan, koirammekokaan, koirannekokaan, koiranikokaan, koiranikokaa koiraansakokaan, koiraammekokaan, koirassanikokaan, koirassanikokaan, koirassansakokaan, koirassanmekokaan, koirassannekokaan, koirassannekokaan, koirassanikokaan, koirassani koirastanikokaan, koirastasikokaan, koirastansakokaan, koirastanmekokaan, koirastannekokaan, koirastansakokaan, koirastansakoka koirallammekokaan koirallannekokaan koirananikokaan koiranasikokaan koiranansakokaan koirananmekokaan koiranannekokaan koiran

Swedish: Breath!!
German: Whattaaa?

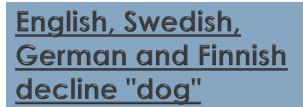
English: Okay, now you're just making things up!

Finnish: And now the plural forms.....

So... U'm glad that I don't have to learn Finnish from books myself. I'm not really sure how some of those last ones work though... Maybe they are usable but then it gets quite hard to understand.

koiraksesikokaan, koiratsensakokaan, koiratsensakokaan, koiratsensakokaan, koirattanikokaan, koirattan

koirattannekokaan, koirinenikokaan, koirinesikokaan, koirinensakokaan, koirinemmekokaan, koirinennekokaan,



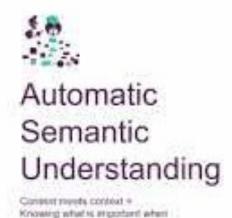


Digital Humanities - What's Ahead

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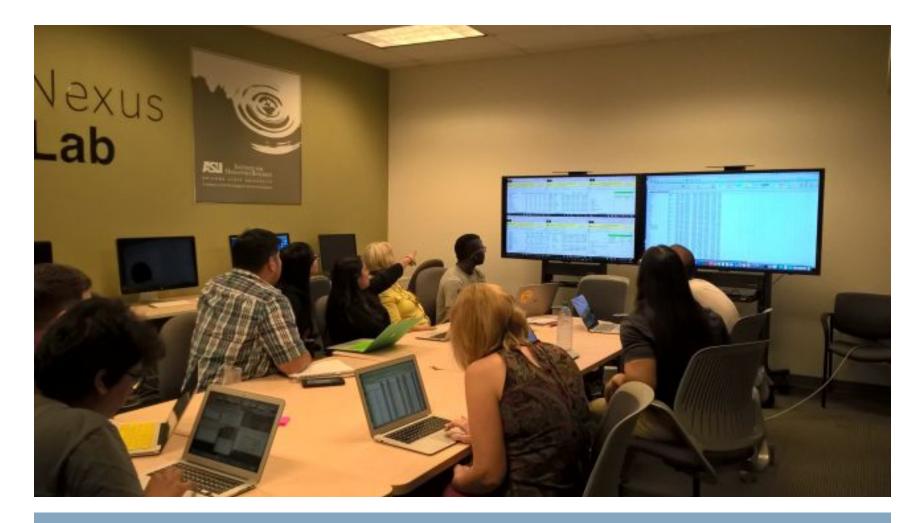




- Handles multiple intents
- Eliminates false positives
- Understands complexity

Making easy work of decoding complex languages with conversational Al

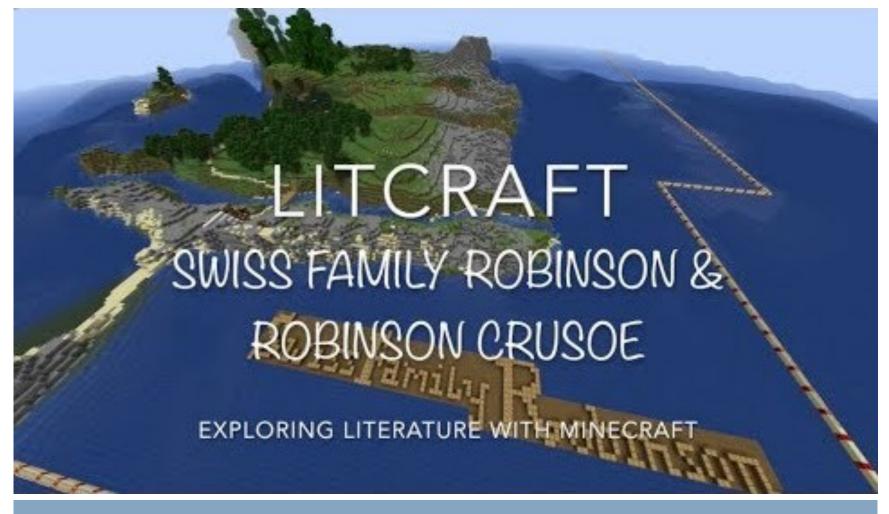




The future of work in academia

The Invisible Work of the Digital Humanities Lab: Preparing Graduate Students for Emergent Intellectual and Professional Work





Enabling innovative research with British Library digital collections





Minecraft: Education Edition

Explore AI in New Minecraft Hour of Code





Where do we go from here?

Learn more: Harvard's free, online <u>Introduction to Digital Humanities</u>





This Al-generated sculpture is made from the shredded remains of the computer that designed it





