Digital Humanities 2019: Complexities

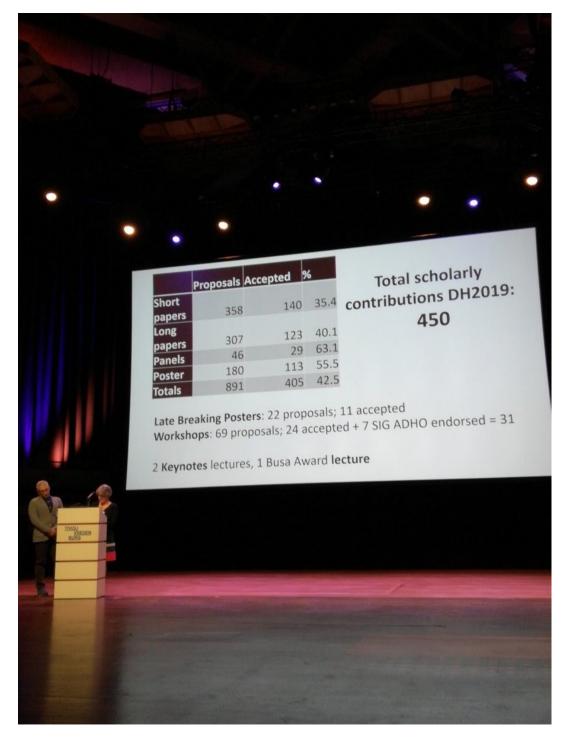
July 8-12, 2019 Utrecht, The Netherlands

a conference report prepared by Tyng-Ruey Chuang

2019-08-06

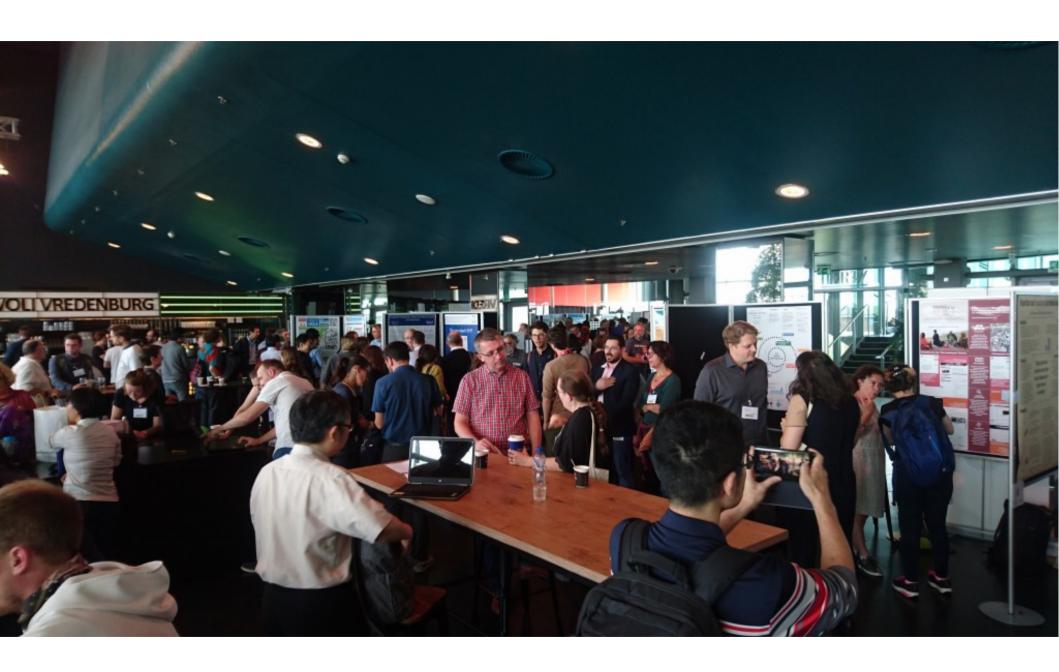
Organization

- A three-day conference preceded by two days of workshops
 - 31 workshops (10 full-day, 21 half-day)
 - 2 keynotes, 1 Busa lecture
 - 41 long-paper sessions, 28 short-paper sessions, 29 panels, 1 poster session (~100 posters)
 - up to 10 parallel sessions at any given time
 - other co-located meetings
- Organized by the Alliance of Digital Humanities Organizations (ADHO) and the Utrecht University.



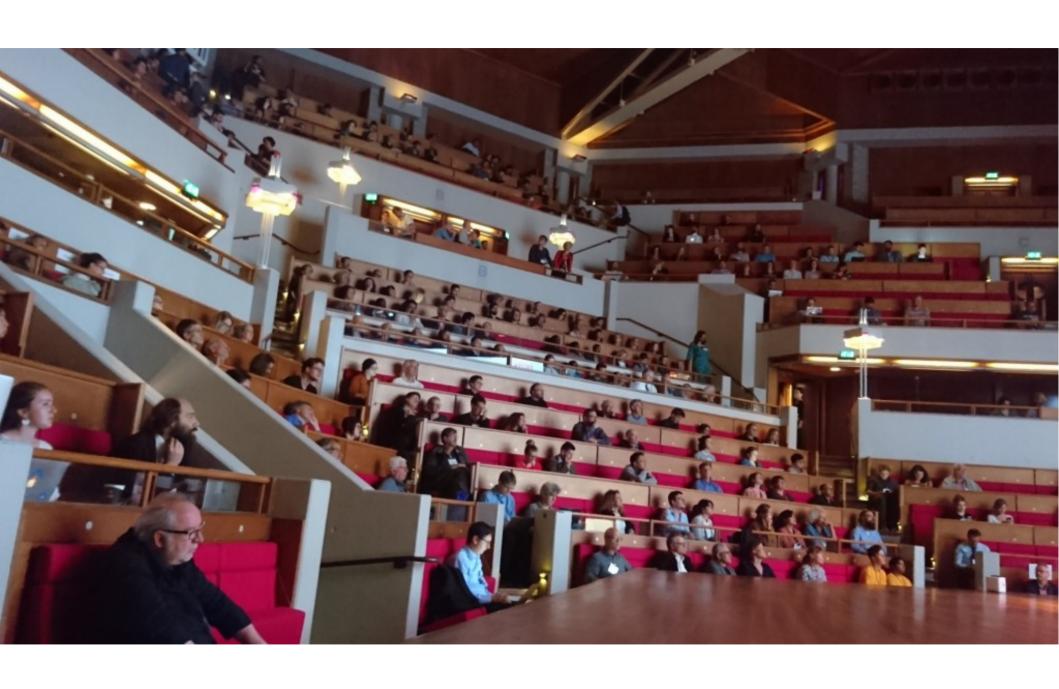
- 700 reviewers
- 3600 reviews
- over 900 proposals
- 1000+ participants

A sampler of three papers and three panels will be discussed today, with some of my thoughts and photos.









Conference Materials and Discussions

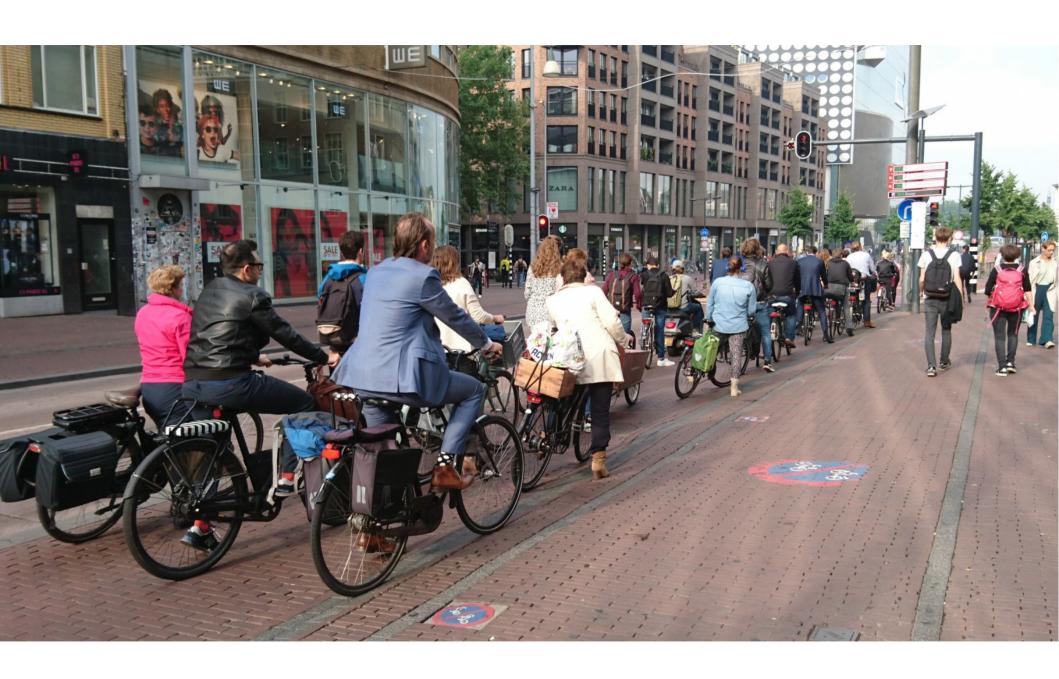
- Website
 - https://dh2019.adho.org/
- Program
 - https://www.conftool.pro/dh2019/index.php?page=brow seSessions
- Abstracts
 - https://dh2019.adho.org/programme/book-of-abstracts/
- Twitter
 - #DH2019
 - @DH2019_NL

Themes

- Cultural Heritage, Art/ifacts and Institutions
- Cultures Literatures and Texts
- Space, Territory, GeoHumanities
- Scholarly Communities, Communication, Pedagogy
- Tools Interfaces and Infrastructures
- Digital Humanities Theory and Methodology
- Society, Media, Politics, Engagement
- Language, Languages
- History and Historiographies

Papers from Taiwan

- Maps Re-imagined: Digital, Informational, and Perceptional Experimentations in Progress (Academia Sinica & NCKU)
- Toward Building Chronicles from Biographies in Local Gazetteers: An Application of Syntactic and Dependency Parsing (NCCU)
- Exploring Intertextuality in the Mahoyoga Section of the Rin chen gter mdzod (Dharma Drum)
- Onto Word Segmentation of the Complete Tang Poems (NCCU)
- Climate Event Classification Based on Historical Meteorological Records and Its Presentation on A Spatio-Temporal Research Platform (NCU & Academia Sinica & Dharma Drum)
- Some GIS-Based Analysis of the Complete Taiwan Poems (NCCU & Academia Sinica)





Paper: Repopulating Paris: massive extraction of 4 Million addresses from city directories between 1839 and 1922 (EPFL, Switzerland)

- https://dev.clariah.nl/files/dh2019/boa/0878.html
- [Quote] Extraction and analysis of the data contained in "Didot-Bottin" covering the period 1839-1922 for Paris, digitized by the Bibliotheque nationale de France.
- [Quote] Process more than 27,500 pages to create a database of **4.2 million entries linking addresses**, person mention and activities.
- [Quote] Report on the overall statistics of the distribution of professions in Paris and their evolution during more than 80 years, as well a general overview of the diversity of family names through time.



Rasmussen (Vald), commiss. en librairie, quai St-Michel, 9. (5°). T.Gob. 24.33. Adr. T: VALDRAS-PARIS.
Rasmussen et Kasembeck, ébénistes, r. de Charenton, 167. (12°).
Raspail (S¹⁶ an^{me} des Etabl^{ts}). produits hygiéniques s

Rasnauss^n (Vald*, commiss. en librairie, l'lai gt-llichel, 9. (51). MGob. 24.33. : ^LÛIUS-Pahis. ^ Adr,<r R:::mussen et Kasembeck, ébénistes, r. de Raspail -charenton, 167. (12.).

Alavoine (P.), fournitures de bureaux, fabr. de carnets, maroquinerie, r. St-Sabin, 52, imp. des Primevères, 5. (11°). TÉLÉPH 930.02.

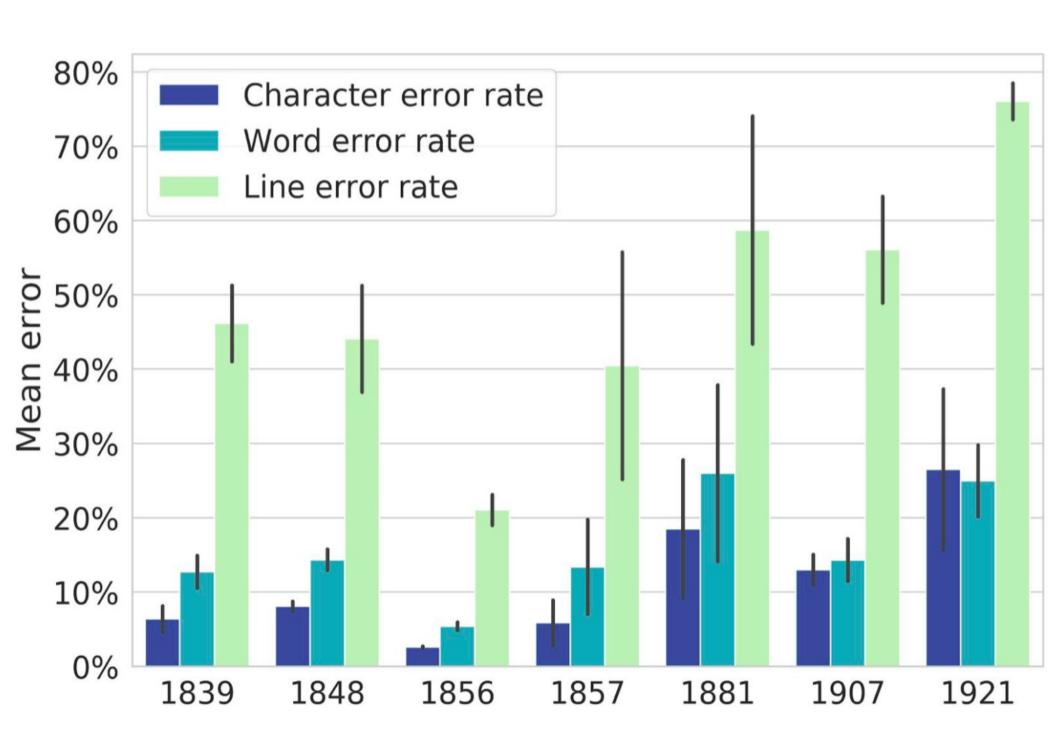
Alavoine (L.) * NCJ et Cie, tapissiers-ébénistes, r. Caumartin, 9, 9 bis et 11. (9°). TÉLÉPH 244.71.

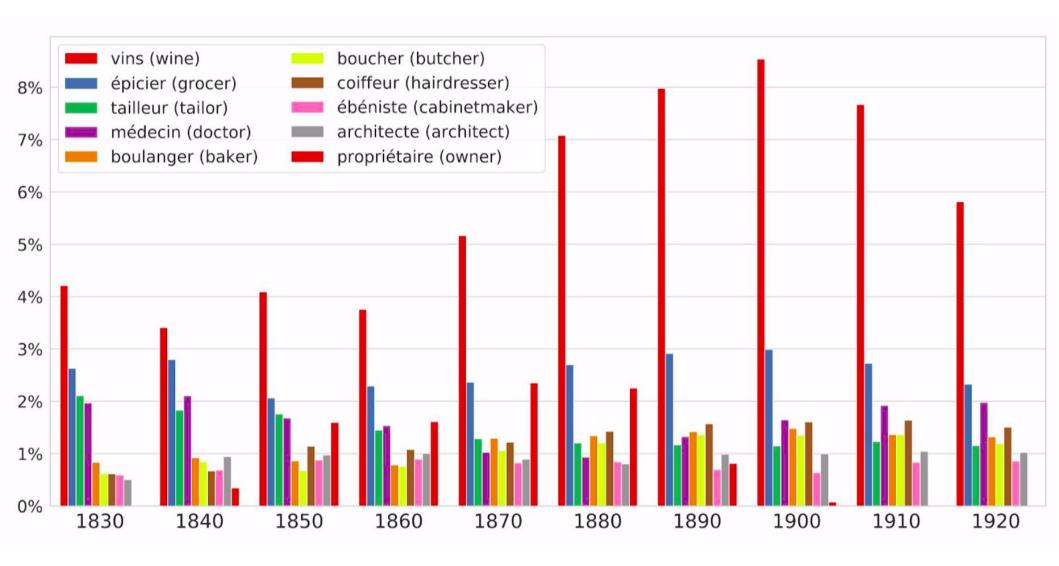
Alavoine (Mme) teintur r Audren 2 (12°).

Alavoine (P.), fournitures de bureaux, fakr de carnets, maroquinerie, r. St-Sabm. __52. imp.desPrimevères, 5. Uf"). Klépr]930.0s: Alavoine (L.) !!ml et Cie, tapissiers-é bénis' tes, r. Caumartin,9,9 bis et 11.(Se).fglgigj

Ailleret jeune, cristaux et verreries décorés,
Hauteville, 72.
Ailleret, propriétaire, Vertbois, 38.
Aillerot, vins, Ste-Opportune, 5.
Aillet (Emile), vins, Bouloi, 5.
Ailloud, boulanger, Lafayette, 233.

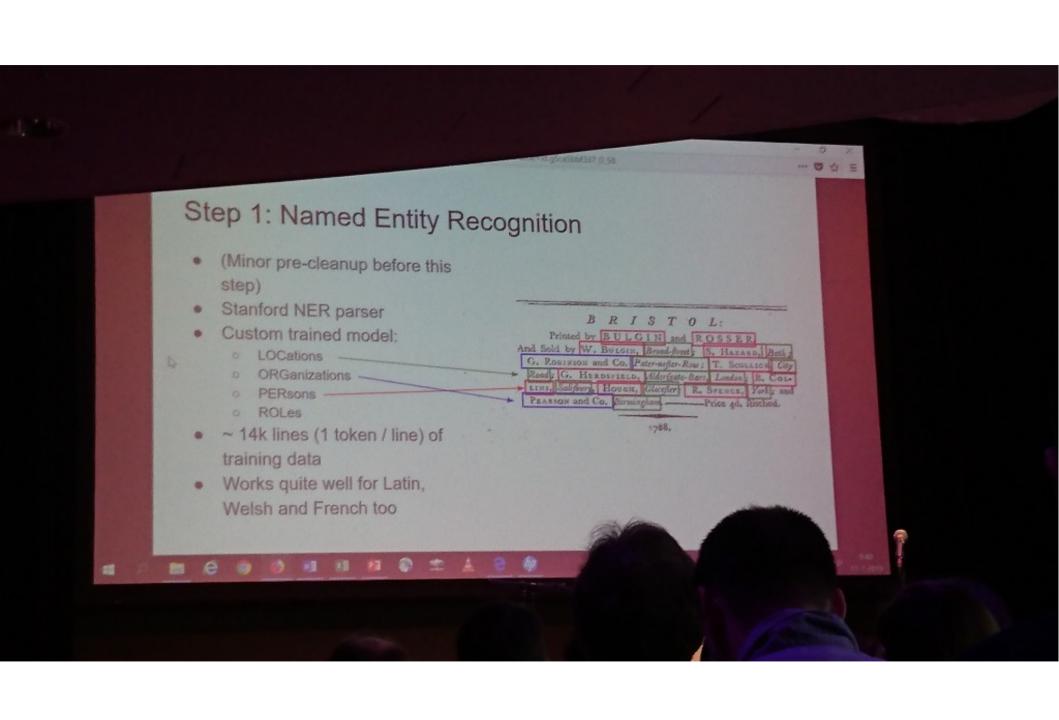
Ailleret jeune, cristaux et verreries décorés llautevîll&, *72-.-. '
Ailleret, propriétaire, VcrUBois", 38.
4iîfert>t, Ste-Gppàrthrie, 5i
Aillet (E 1 vlle, CotUoi. 5.
Ailloud, •boutiStde^, Eaftf.éwej;29a* "





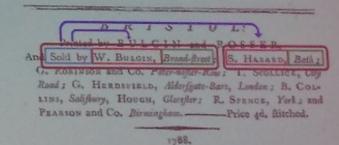
Paper: Publishers, Printers and Booksellers - Implications of Properly Structured Metadata for Digital History (University of Helsinki, Finland)

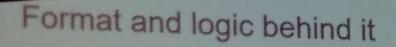
- https://dev.clariah.nl/files/dh2019/boa/0650.html
- [Quote] The English Short-Title Catalogue (ESTC, http://estc.bl.uk) is a standard source for analytical bibliographic research holding close to half a million titles published in English from 1473 to 1800.
- [Quote] A data matching process was applied to test if names detected in the **publisher statements** could be linked with **distinct entities found in external databases**.
- [Quote] The end result of the unification process is a bibliographic database of 900,000 non-unique records harmonized into fewer than 200,000 actors, of which **30,000** are identified as being part of the book trade. Between these actors we have been able to make roughly **800,000** individual connections.



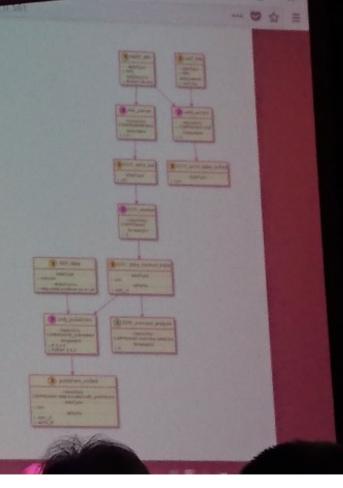
Step 2: Roles and relations

- Identify roles of actors in the statement (publisher, printer, bookseller), usually by a verb, eg.: "Sold by W. Bulgin"
- Identify groupings (which verbs refer to which actors, which locations and actors are connected)
- Rules based script off the shelf NLP did not work that well with non-standard sentences in publisher statements.

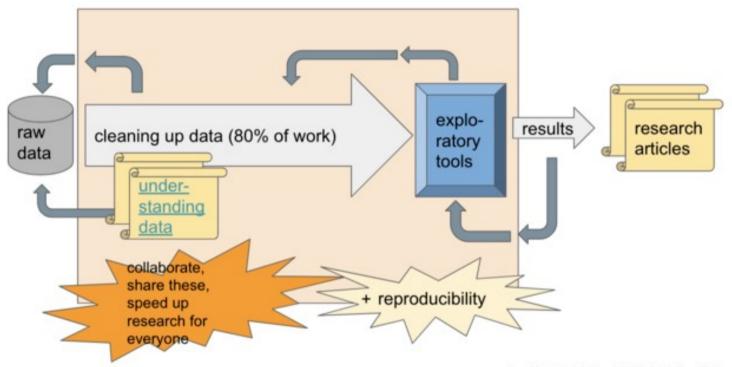




- Relational model
- Distinct entities
 - actors and their connections
 - Links with other data from processed, cleaned and unified version of ESTC
- Output in .csv files stored in a git repository
 - Deliberately not a web service, complicated linked data database, or something similar:
 - Robust: aims for clarity, ease of use and sustainability
 - Enables easy further development



Open science workflows to reduce individual workload



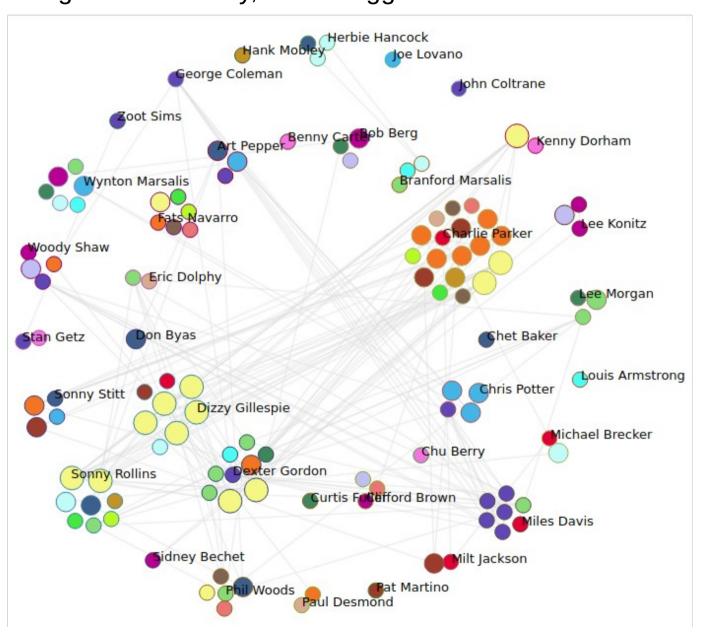
graph: Eetu Mäkelä & Mikko Tolonen

"Exploring ECCO: Key moments in 18th-century philosophical Literature", Comhis-collective, Helsinki. http://j.mp/comhis-nvm

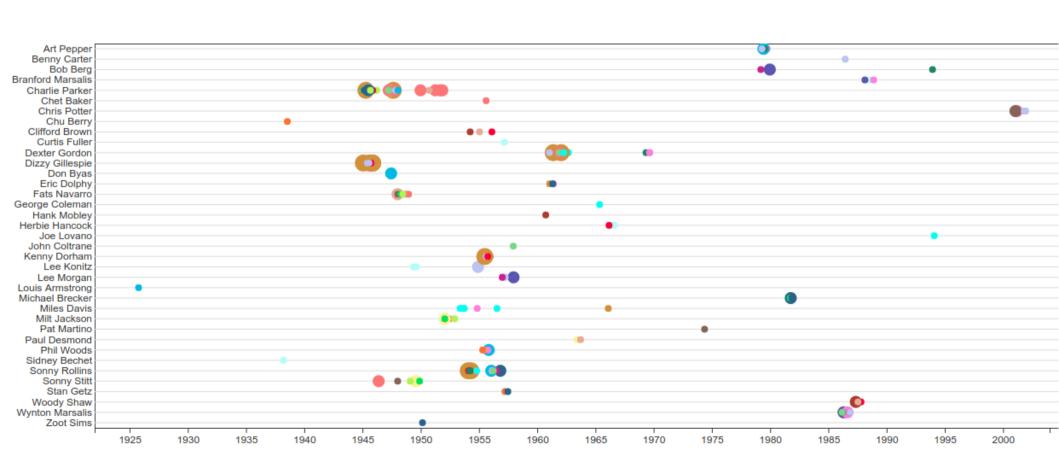
Paper: Digging Into Pattern Usage Within Jazz Improvisation (Pattern History Explorer, Pattern Search and Similarity Search) (University of Music "Franz Liszt" Weimar, Germany)

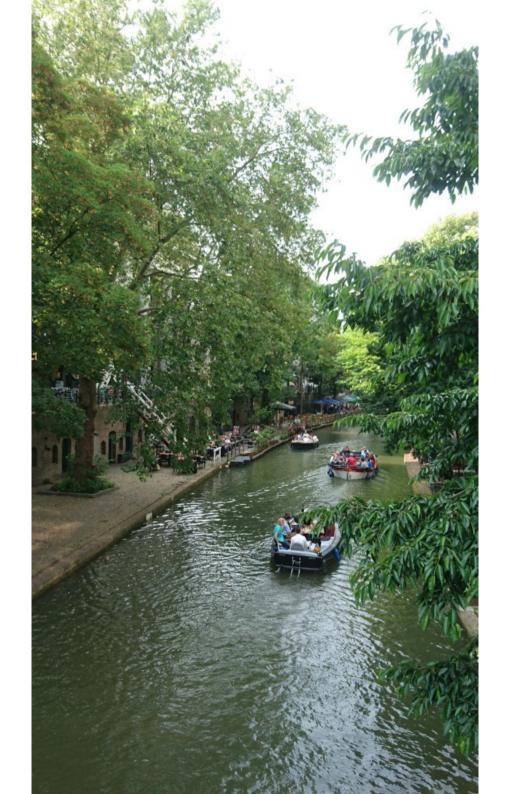
- https://dev.clariah.nl/files/dh2019/boa/0723.html
- [Quote] The main goal of the Pattern History Explorer is to enable the exploration of interval patterns in jazz solos by providing information from many different angles.
- [Quote] It maintains an overview of interval patterns frequently used in the Weimar Jazz Database, allowing for the discovery of cross-artist and cross-temporal relationships. Currently, **653 interval patterns with 11,630 instances are included**.
- [Quote] The similarity search operates on a database of the complete set of pitch and **interval n-grams of up to 20 elements** that were previously extracted from the Weimar Jazz Database.

[Quote] Network graph for interval pattern -1,-2,-1,3,3,3,-1,-2 grouped by performer; the biggest bunches stand for those patterns played by Charlie Parker, Dizzy Gillespie, Sonny Rollins and Dexter Gordon. Node colours denote identical patterns which are connected by edges. Node size represents the degree of similarity, where bigger means more similar.



[Quote] Timeline chart for interval pattern -1,-2,-1,3,3,3,-1,-2. Node colours denote identical patterns. Node size represents the degree of similarity, where bigger means more similar.











Panel: The Past, Present and Future of Digital Scholarship with Newspaper Collections

- https://dev.clariah.nl/files/dh2019/boa/0377.html
- Mia Ridge (BL)
 - Living with Machines https://www.bl.uk/projects/living-with-machines
 - Slides:
 https://www.slideshare.net/miaridge/living-with-machines-at-the-past-present-and-future-of-digital-scholarship-with-newspaper-collections-1547 00888
- Maud Ehrmann (EPFL)
 - Impresso https://impresso-project.ch/
- Jean-Philippe Moreux (BnF)
 - News Eye https://www.newseye.eu/
- Laurel Brake (Birkbeck, Univ of London)
 - Nineteenth-centry serial edition https://ncse.ac.uk
- Andrew Prescott (University of Glasgow)

Panel: Data Science (DS) & Digital Humanities (DH): new collaborations, new opportunities and new complexities

- https://dev.clariah.nl/files/dh2019/boa/0364.html
- Eirini Goudarouli (The National Archives) Computational archive science
- Leonardo Impett (Bibliotheca Hertziana Max Planck Institute) and Anne Alexander (University of Cambridge) – Way of machine seeing
- Mia Ridge (BL)
 - Infrastructure at the intersection of culture heritage and data science
 - Shared infrastructure as a platform for collaboration?
 - Slides:
 https://www.slideshare.net/miaridge/in-search-of-the-sweet-spot-infrastructure-at-the-intersection-of-cultural-heritage-and-data-science
- Nora McGregor (BL)
 - Training GLAM staff to support digital scholarship
 - https://blogs.bl.uk/digital-scholarship/
- Beatrice Alex (Univ Edinburgh)
 - Interdisciplinary data science and digital humanity research
 - Plague.TXT https://www.ltg.ed.ac.uk/projects/plague-txt/
- Barbara McGillivray (University of Cambridge) A manifesto on DS & DH

Panel: Clearing the Air for Maintenance and Repair: Strategies, Experiences, Full Disclosure

- https://dev.clariah.nl/files/dh2019/boa/0648.html
- https://drive.google.com/file/d/1DiA8X9aD9W8MzxJLWHHdYF38RY9gCSOm/view
- James Smithies & Arianna Ciula (King's College London)
 - http://www.digitalhumanities.org/dhq/vol/13/1/000411/000411.html
 - "Managing 100 Digital Humanities Projects..."
- Jessica Otis & Faolan Cheslack-Postava (George Mason University)
 - Roy Rosenzweig Center for History and New Media
 - [Quote] Near-zero hard funding; Unsustainable "free labor"; Continuous loss of institutional knowledge; Unfounded mandates for infinite lifetimes
- Martin Holmes & Stewart Arneil & Greg Newton (University of Victoria)
 - https://hcmc.uvic.ca/endings/questionnaire.htm
 - "How sustainable is my DH project?"
- Jasmine Mulliken (Stanford University Press)
 - "What parts of an interactive scholarship work should be preserved?"
 - "How long should an interactive scholarly work last?"
 - "Who is responsible for a work's longevity?"



Conference Reports Found Online

- Mikko Tolonen, University of Helsinki
 https://www.newseye.eu/blog/news/a-perspective-on-research-on-digitised-newspapers-at-dh20190/
- Mia Ridge, British Library
 http://www.openobjects.org.uk/2019/07/notes-from-digital-humanities-2019-dh2019-utrecht/
- Albert Meroño Peñuela, Vrije Universiteit Amsterdam https://www.albertmeronyo.org/trip-report-dh2019/
- ... and many more.

DH2020, DH2021, and DH2022

- DH2020 theme: carrefours/intersections (a place where paths cross)
 - July 22-24, 2020, Ottawa, Canada
 - Call for reviewers, deadline: August 15, 2019
 - https://dh2020.adho.org/cfps/reviewers/
 - @DH2020_Ottawa
- DH2021
 - July 26-30, 2021, Tokyo, Japan
 - @DH2021_Tokyo
- DH2022
 - July 11-15, Graz, Austria







