



Who cares about yesterday's news? Use cases and requirements for newspaper digitization

IFLA International News Media Conference Hamburg, 20-22 April 2016

Clemens Neudecker Staatsbibliothek zu Berlin Europeana Newspapers <u>@cneudecker</u>





Topics

- Current state of newspaper digitization

 European Newspapers Survey
 ICON Comparative Analysis
- Exemplary use cases

 Digital Humanities / Text Mining
 Creative Industries / Apps
 Industry / Family History
- Requirements and best practices

Europeana Newspapers Survey

- <u>Europeana Newspapers survey</u> (2012):
 47 respondents from European libraries
- Most EU countries have (national/major) newspaper digitization programmes in place
- Approx. 130,000,000 pages already digitized
- 87% of respondents offer access to their newspaper collection free-of-charge

ICON Comparative Analysis

- ICON <u>Comparative Analysis</u> (2015)
- (Awareness of) newspaper digitization mostly limited to Western countries (US-UK-EU)
- The vast majority of digital newspapers have been produced from microfilm / cost-efficiency
- Estimated 30,000 titles digitized in US-UK-EU, approximately 45,000 titles worldwide → Lack of material other than English

Representation of Absence

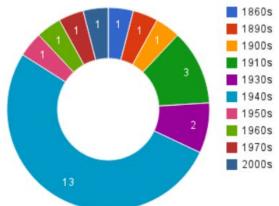
Quantities of newspapers – a) in project b) digitised in total c) in physical libraries

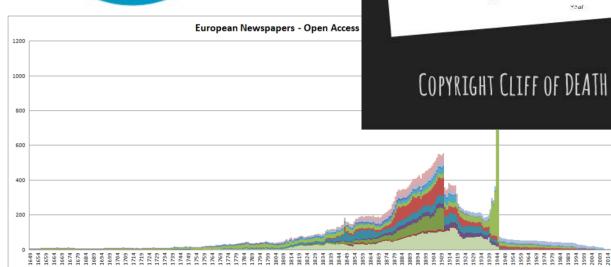
 Scale of what is still left to digitize is mindboggling ...only about 0,001% done in Europe

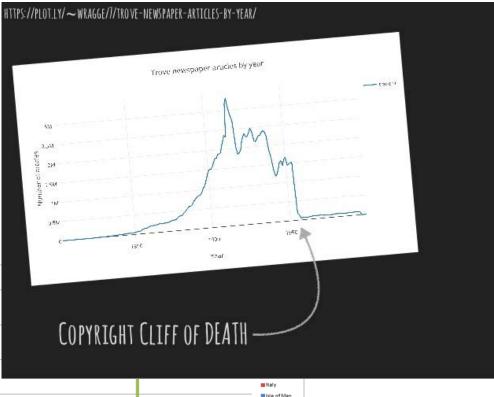
Source: European Newspaper Survey Report http://www.europeana-newspapers.eu/wp-content/uploads/2012/04/D4.1-Europeana-newspaperssurvey-report.pdf

"Copyright cliff of death"

Cut off date for presentation of digitised newspapers







Ireland

France Finland England

Belgium

Use cases

Example use cases: 1

- Digital Humanities / Text & Data Mining
 - Broad interest in societal, cultural developments
 - Newspapers cover "daily life", events that do not make it into the history textbooks
 - OCR/full-text almost always a requirement
 - For text mining, large quantities of data can be more important than the quality of the OCR
 - Prefer API or bulk download over search & browse
 - See also <u>http://www.europeana-</u> <u>newspapers.eu/category/interviews-with-</u> <u>researchers/</u>

viraltexts.org



newspaper archive and Making of America magazine archive. The circles (nodes) in the graph represent individual newspapers, while the lines between them (edges) represent shared texts discovered by researchers working on the <u>Viral Texts</u> <u>project</u>, sponsored by Northeastern University's <u>NULab for Texts</u>. Maps, and <u>Networks</u>. For more information about the project, visit <u>viraltexts.org</u>.

i More about this visualisation

Legend:

Newspapers or Magazines

✓ "Viral Texts" shared Between Publications. A thicker line indicates more shared reprints

Communities of periodicals that frequently share reprinted texts

Search:

Search by name

Group Selector:

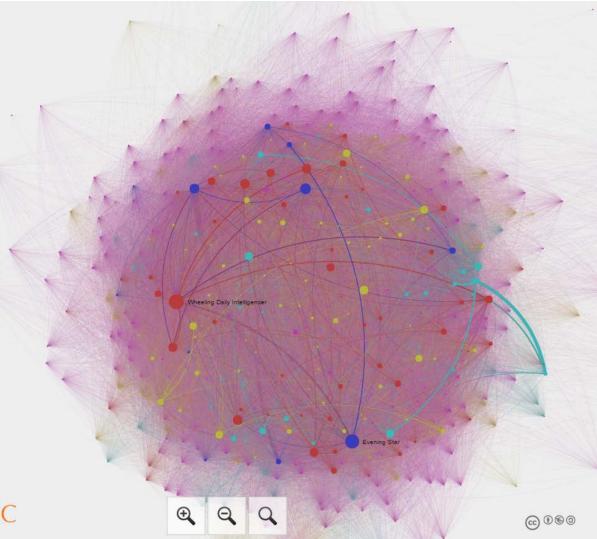
Select Group





.

-



Elegant Elephant

SURE to be a great favorite with the children, this elephant sill be a durable toy.

Materials: 5 halls grey Peaonch Kooba; 2 small huttons. pr. No. 12 knitting needles st., k to last 2 sts., k 2 tog. anna av mitable filling: thread of black wool. This toy is worked in double st., it to end. TRUNK (Make 2) Cast pr 4 ats E T.mws. 3rd Row: K 2 tog, k to last st., a twice into last at. K 1 rowy Hota last 4 rows once, 11th Row: K to last st_ 1 Twine into last at 12th Rows Knit. Hop. last 2 rows. 15th Row; K twice into last state into last st. 4: 1 to end. 16th Row: Kait 17th Rowi K twice into 1st spare needle, e. i to last 2 sts., k 2 tog. K I reway 21st Rowi K twice into 1st. M_ 8 Di mid.



Af.

4th Rowy Enit. Rep. and row; K 21 rows. 27th Row: K. inc. 1 st. such 28th Roser Knit. 29th Roser K to last st., k 30th Row; Kuit Mar Rows K twice linto In st, k in end.

ELEGANT ELEPHANT

Cast up 10 m. pick up sta on spare needle for front leg. k to last st. k twice into last 32nd Row: K to last st., k twice into last et 33rd Row: K twice into 1st st., k to end.

34th Rowt Knit Rep. last 2 rows. 37th Row; K to last st., k twice into last st. 30th Row: Knit. Rep. last 2 rows 3 times.

45th Row: K to end, pick up ats on anare needle for trunk, & to end. 46th Rows K 2 mg_ k to end.

K S rowz 50th Row: K 2 tog, k to end. K 5 rows 56th Rows K 2 tog_ k to

end. Rep. last row. 58th Row: Knit. 59th Row: K to last 2 sts., k 2 100

50th Row: Knit: 61st Row: K 2 tog. each end. 62nd Rows Knit.

83rd Row: K to last 2 sts. 2 tog.

Rett last 2 rows 3 times 70th Rowi Knit. 71st Row: K 2 top 1 to

end. Ren. last row twice.

74th Row: K 2 tog., k to end

75th Row: Class off 8 sta., k to rrul Rep. last 2 rows twice.

80th Row: K 2 tog, each end. Rep. last row twice



Example use cases: 2

- Creative industries / Apps
 - Unfamiliar but intriguing uses
 - Potential to reach out to novel audiences
 - Not necessarily commercial interest
 - Almost exclusively require API
 - Serendipity effect
 - Tracing the use:

Trove:

http://trovespace.webfactional.com/traces/ NDNP: http://www.loc.gov/ndnp/extras/#reuse

hierwashetnieuws.nl

Koninklijke Bibliotheek Nationale bibliotheek van Nederland





Hier was het nieuws

Wat is hier ooit gebeurd? Op deze vraag geeft de app Hier was het nieuws je een antwoord. De app toont – overal in Nederland – historische krantenartikelen over de locatie waar jij je bevindt. Wil je weten wat er vroeger bij jou in de buurt gebeurde? Download dan de gratis app voor het nieuws van toen. Laat je verrassen door historische gebeurtenissen in kranten van vroeger. Vanaf begin december is de app ook beschikbaar via Google Play (Android).





Over de app

De app Hier was het nieuws van de Koninklijke Bibliotheek is gebaseerd op de website Historische Kranten. Op deze website zijn miljoenen gedigitaliseerde krantenpagina's uit de periode 1618-1995 voor iedereen gratis toegankelijk. De app toont de krantenartikelen met gebruik van GPS.



Wat kun je met de app?

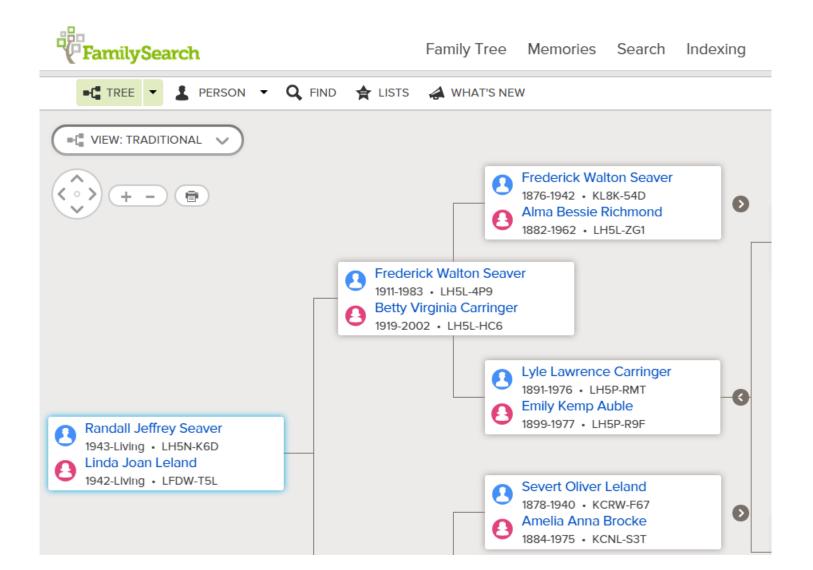


Bekijk de promo en kom er in 30 seconden achter wat je met de app kunt doen!

Example use cases: 3

- Commercial / Family History
 - Aim to identify inviduals within articles, obituaries
 - Benefit greatly from Named Entity Recognition
 - Huge volunteer base for crowd-sourcing

familysearch.com



Interactive Newspaper Desk



Summary: Requirements

- Interest in digital newspapers is as diverse as the newspaper content
- OCR is nearly always a must-have
- NER can enhance some use cases greatly
- Access should be as open as possible
- APIs provide a means for third parties to create additional outreach and exposure

Summary: Best Practices

- Make available a critical mass through cost-efficient microfilm digitization
- Always provide OCR and be transparent about the quality
- Open access to the content is not a threat but can help create unforeseeable exposure and added value through creative reuse
- Work with the public!

"The coolest thing to do with your data will be thought of by someone else"

Jo Walsh & Rufus Pollock: The Many Minds Principle





Thank you for your attention!

Questions?

Clemens Neudecker Staatsbibliothek zu Berlin Europeana Newspapers <u>@cneudecker</u>



