

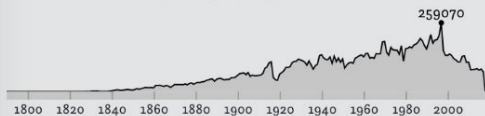
SEARCH TEXT REUSE PASSAGES

start searching...



NUMBER OF PASSAGES PER YEAR ⁱ

Number of text reuse passages per year



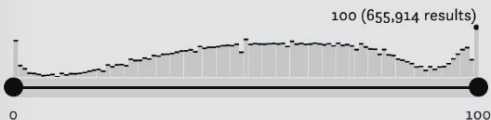
ADD NEW DATE FILTER ...

CLUSTER SIZE ⁱ

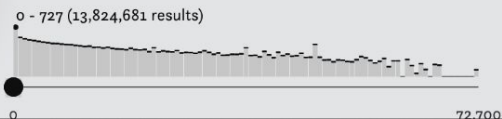
How to read histograms ⁱ



LEXICAL OVERLAP ⁱ



TIME SPAN IN DAYS ⁱ



TEXT REUSE

impresso Text Reuse at Scale

SAVE ARTICLES TO COLLECTION ▾

OVERVIEW

STATISTICS

6,121,859 CLUSTERS

VIEW 16,099,821 PASSAGES

NEWSPAPER

L'Express [↗]	3,152,955
L'Impartial [↗]	2,943,902
Journal de Genève [↗]	2,397,372
Gazette de Lausanne [↗]	2,197,976
La Liberté [↗]	1,991,592
Le Peuple, La Sentinelle [↗]	748,793
Freiburger Nachrichten [↗]	373,980
Confédéré [↗]	328,495
Die Tat [↗]	247,654
Neue Zürcher Zeitung [↗]	229,565

LANGUAGE

French [↗]	13,945,214
German [↗]	1,295,522
English [↗]	2,663
Luxembourgish [↗]	766

COUNTRY

Switzerland [↗]	14,186,834
Luxembourg [↗]	1,057,331

PERSON

United States [↗]	186,999
Les Anglais [↗]	87,128
Les Alliés [↗]	53,866
Paris [↗]	50,322
David Lloyd George [↗]	46,276
Les Brenets [↗]	45,923
Léon Blum [↗]	44,533
Les Chambres [↗]	41,953

TYPE

article [↗]	13,758,049
advertisement [↗]	1,863,669
page article [↗]	229,565
section [↗]	48,166
obituary [↗]	13,106
tables [↗]	2,240
buckets.type.NaN [↗]	2,066
weather news (other) [↗]	552

LOCATION

France [↗]	2,851,220
Paris [↗]	2,391,261
Switzerland [↗]	2,347,917
Suisse, Moselle [↗]	2,323,778
Lausanne [↗]	1,909,000
Zürich [↗]	1,742
Italy [↗]	9
Berlin [↗]	2,70,620

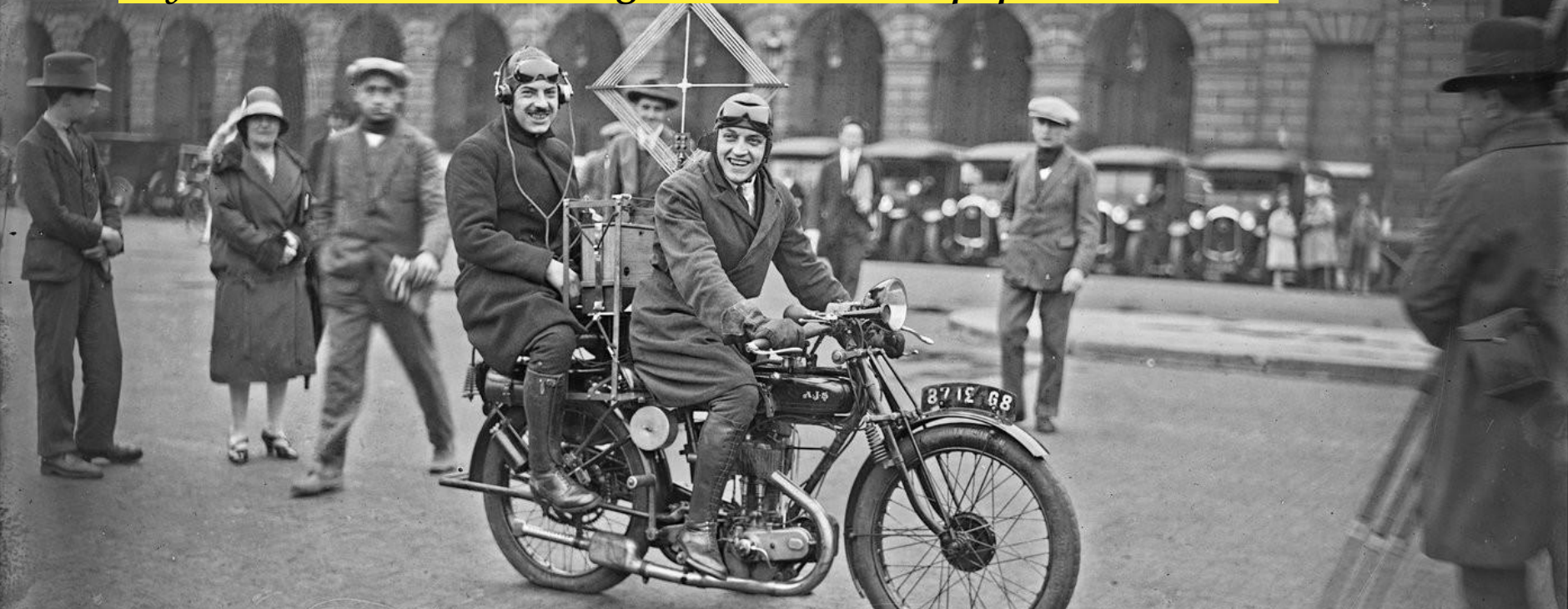
Quantitative analysis of text reuse. Towards a methodology
Helsinki, 23-24.11.2023

Marten Düring & impresso team



impresso - Media Monitoring of the Past II

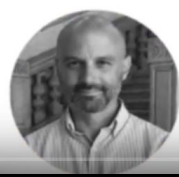
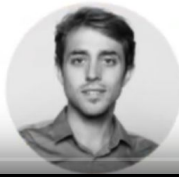
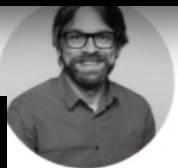
Beyond Borders: Connecting Historical Newspapers and Radio



How can semantic enrichments enhance the study of digitised historical newspapers?

impresso team

*Estelle Bunout
Simon Clemenide
Marten Düring
Maud Ehrmann
Andreas Fickers
Daniele Guido
Frédéric Kaplan
Peter Makarov
Matteo Romanello
Gerold Schneider
Paul Schroeder
Benoît Seguin
Phillip Stroëbel
Martin Volk
Thijs van Beek
Lars Wieneke*



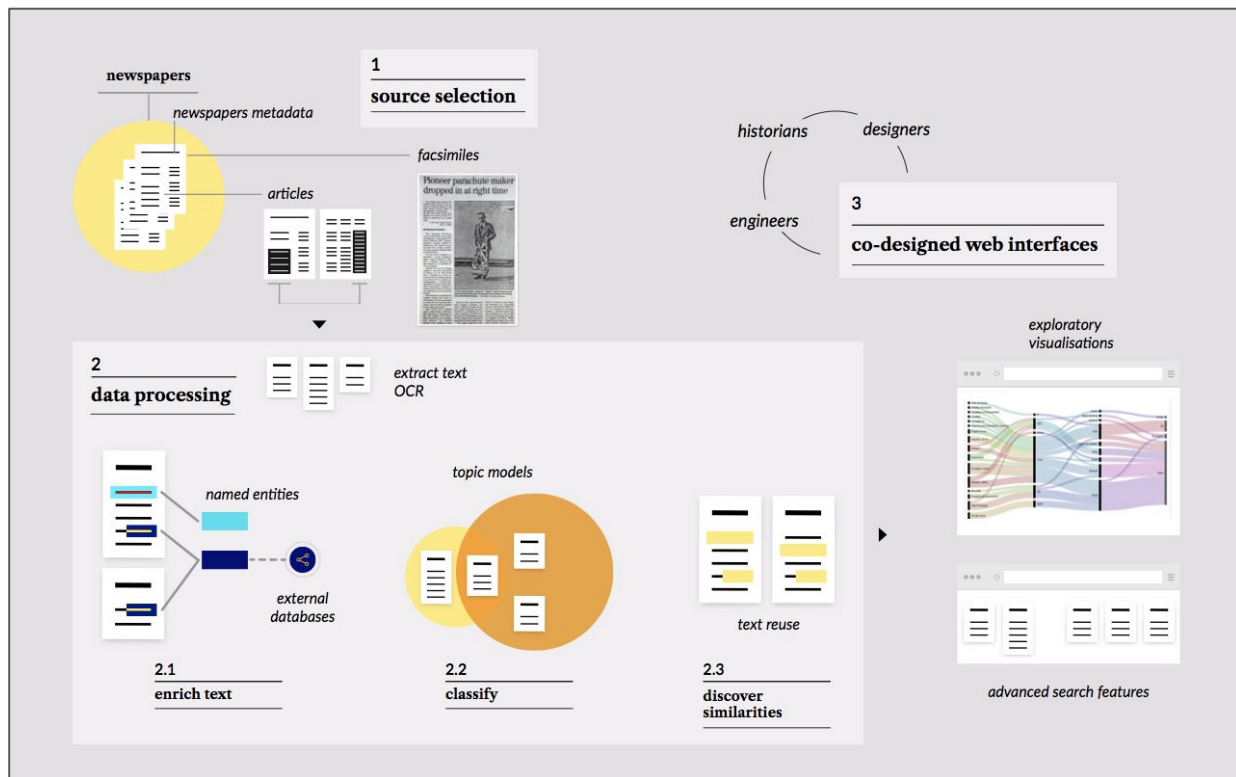
+ a team of historical advisors and associated researchers in (media) history

Objectives and research questions

1. How to adapt NLP tools to historical texts?

2. How to explore complex and vast amounts of data?

3. What is the impact of new tooling on digital scholarship?



Research interests

Discipline

Media history

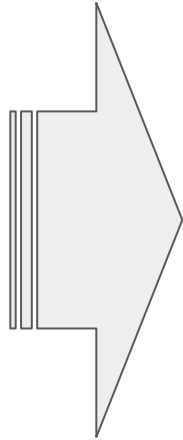
Gender and social norms

Political/cultural history

Social sciences

Social history

...



Interests

Layout

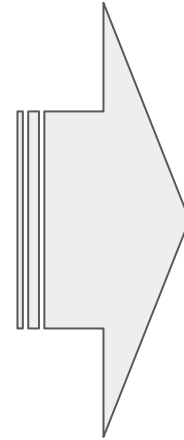
Social norms

Public opinion

Knowledge horizons

Biographical data

....



Newspaper Data

Adverts

Opinion pieces

Press agency text

Images

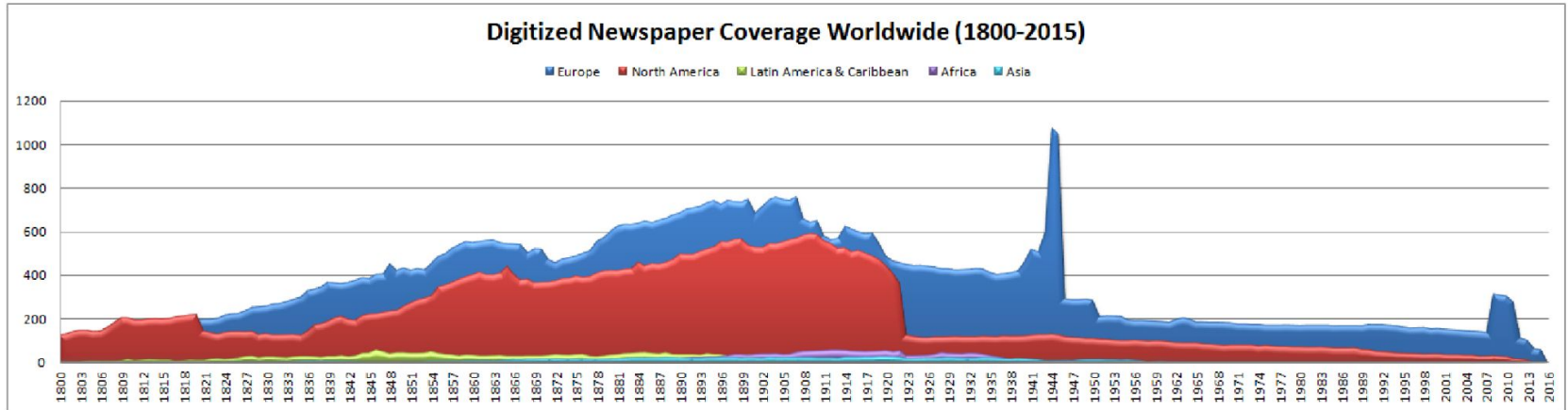
Classifieds

News

Obituaries

....

The big tip of a hidden iceberg



The challenging landscape of historical newspapers

1. Institutional silos
2. Big and messy data
3. Noisy historical text
4. Visualisation and exploration
5. Digital Scholarship



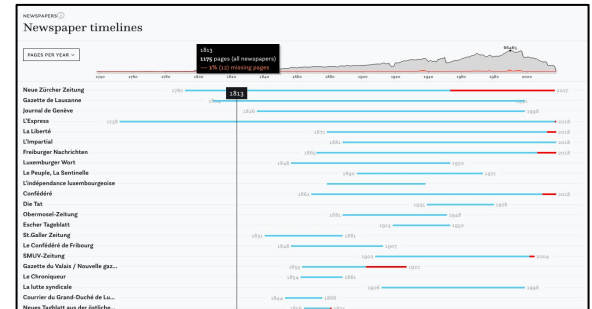
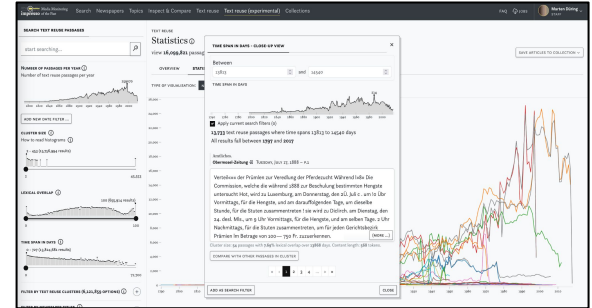
The impresso app

Based on digitised newspaper collections provided by partners.

Target audience are historians and other humanities scholars.

Iterative exploration from multiple perspectives, not an analytical workbench.

Interfaces for overview, exploration, limits & opportunities, flaws in the data.



About Text reuse at Scale

Media Monitoring impresso of the Past Search Newspapers Topics Inspect & Compare **Text reuse** Collections

FAQ JOBS Marten Düring STAFF

SEARCH TEXT REUSE PASSAGES

start searching... 🔍

NUMBER OF PASSAGES PER YEAR

Number of text reuse passages per year

ADD NEW DATE FILTER ...

CLUSTER SIZE

How to read histograms

2 - 453 (15,756,994 results)

2 45,553

LEXICAL OVERLAP

100 (655,914 results)

0 100

TIME SPAN IN DAYS

0 - 727 (13,824,681 results)

0 72,700

TEXT REUSE

Overview of Text Reuse Distribution

view 16,099,821 passages in 6,121,859 clusters

SAVE ARTICLES TO COLLECTION ▾

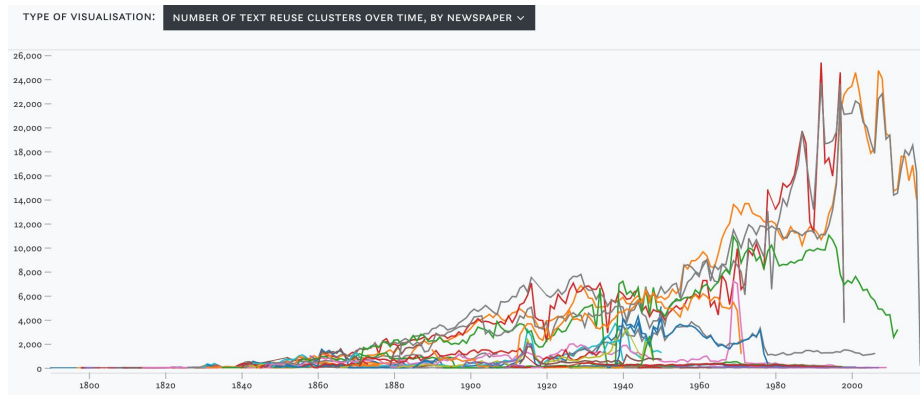
OVERVIEW STATISTICS 6,121,859 CLUSTERS VIEW 16,099,821 PASSAGES

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L'Impartial	Luxembourg	advertisement
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Gazette de Lausanne		section
La Liberté		obituary
Le Peuple, La Sentinelle		tables
Freiburger Nachrichten		buckets.type.NaN
Confédéré		weather news (other)
Die Tat		
Neue Zürcher Zeitung		

LANGUAGE	PERSON	LOCATION
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German	Les Anglais	Paris
English	Les Alliés	Switzerland
Luxembourgish	Paris	Suisse, Moselle
	David Lloyd George	Lausanne
	Les Brenets	Zürich
	Léon Blum	Italy
	Les Chambres	Berlin

impresso text reuse data

Using passim and applied to 76 newspapers from CH and LU; yielded 16 mio passages in 6 mio clusters



Romanello, Matteo. *Text re-use detection in a nutshell*, Blog post, impresso, 2018
<<http://impresso-project.ch/news/2018/06/12/radingzone-tr.html>>.

Matteo Romanello and Simon Hengchen, "Detecting Text Reuse with Passim," *Programming Historian* 10 (2021), <https://doi.org/10.46430/phen0092>.

*How can we enable scalable reading of text
reuse data within the impresso web app?*

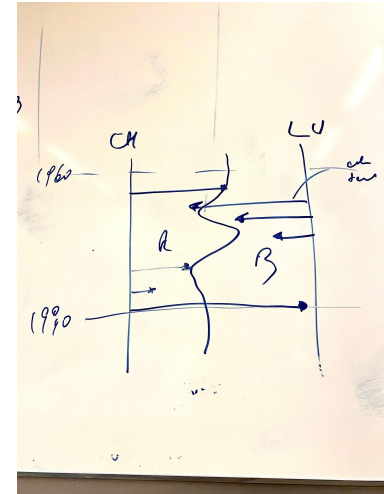
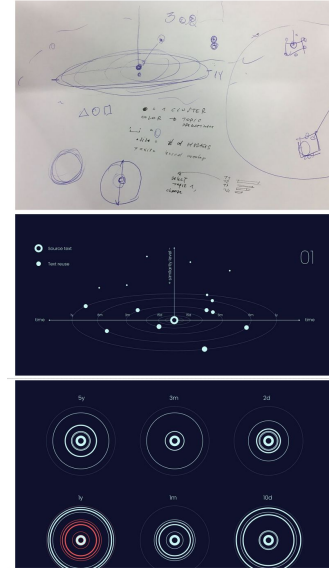


Workshop

Funded by a mini grant by C2DH to conduct experimental research.

Workshop with 10 NLP, history, design experts in Nov 2022 which produced:

- A set of historical research objectives based on case studies
- Focus on the integration of TR with other semantic enrichments
- Three mockups to support envisioned tasks



Outputs

Mockups, objectives and tasks inspired:

- Text reuse at Scale interface for impresso Web app
- Press agency detection project (impresso + Lea Marxen)
- User evaluation ([Zenodo](#))
- Paper: [impresso Text Reuse at Scale](#) (Frontiers in Big Data, 6/2023)

ORIGINAL RESEARCH article

Front. Big Data, 03 November 2023
Sec. Data Mining and Management
Volume 6 - 2023 | <https://doi.org/10.3389/fdata.2023.1249469>

This article is part of the Research Topic
Visualizing Big Culture and History Data
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Edited by
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University for Continuing Education Krems, Austria

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Tarig Yousef
University of Southern Denmark, Denmark
Petri Paju
University of Turku, Finland

TABLE OF CONTENTS

Meta-Monitors impresso of the Past

SEARCH TEXT REUSE PASSAGES

start searching...

NUMBER OF PASSAGES PER YEAR

Number of text reuse passages per year

ADD NEW DATE FILTER...

CLUSTER SIZE

How to read histograms

2 453 (0.175,084 results)

45,552

LEXICAL OVERLAP

100 (95,814 results)

0

THIS SPAN IN DATA

0 197 (8,824,881 results)

100

Overview of Text Reuse Distribution

View 16,099,821 passages in 6,123,359 clusters

VIEW 16,099,821 PASSAGES

OVERVIEW STATISTICS 6,123,359 CLUSTERS

NEWSPAPER	COUNTRY	TYPE
L'Express	Switzerland	article
L'Impartial	Luxembourg	advertisement
Journal de Genève		page article
Gazette de Luxembourg		section
La Liberté		obituary
Le Peuple, La Sentinelle		tabloid
Freiburger Nachrichten		bulletinyes:NaN
Confédéré		weather news (other)
Die Zeit		
Neue Zürcher Zeitung		

LANGUAGE	PERSON	LOCATION
French	United States	France
German	Los Angeles	Paris
English	Paris	Switzerland
Luxembourgish	Paris	Swiss Ministry
	David Lloyd George	Lausanne
	Leo Bretners	Zürich
	Leon Blum	Italy
	Les Chambres	Berlin

Prios and desiderata

Main Priorities

1. Scalable reading of text reuse data
2. Integration in impresso Web app and its component to enable general exploration
3. Integration with other semantic enrichments for more precision
4. ~~Keep Frontiers deadline~~

Main Desiderata

1. Passage-based search
2. Passage-based comparison
3. ~~Cluster-level view~~
4. TR data export

The screenshot displays the 'impresso Media Monitoring of the Past' interface. At the top, there is a search bar with the placeholder text 'start searching...' and a magnifying glass icon. Below the search bar, a line graph titled 'TIME SPAN IN DAYS' shows a distribution of results over time, with a peak at 0 days (13,824,681 results) and a range extending to 72,700 days. The graph has a y-axis labeled '0' and an x-axis labeled '72,700'. Below the graph, there is a list of filters, each with an information icon (i) and a plus sign (+) to expand the options:

- FILTER BY TEXT REUSE CLUSTERS (6,121,859 OPTIONS) (i) (+)
- FILTER BY NEWSPAPER TITLES (77 OPTIONS) (i) (+)
- FILTER BY TOPIC (300 OPTIONS) (i) (+)
- FILTER BY COLLECTION (57 OPTIONS) (+)
- FILTER BY COUNTRY OF PUBLICATION (2 OPTIONS) (+)
- FILTER BY ARTICLE TYPE (8 OPTIONS) (+)
- FILTER BY LANGUAGE OF ARTICLES (4 OPTIONS) (+)
- FILTER BY PERSON (284,979 OPTIONS) (i) (+)
- FILTER BY LOCATION (43,561 OPTIONS) (i) (+)

Side project: Where did the news come from?

News Agency Recognition

- Construction of an annotated dataset (27 agencies, ca 2000 articles, fr and de);
- Training and evaluation of models to recognise news agencies;
- Application on the whole *impresso* corpus;
- First analyses.

The screenshot displays the Impresso search interface. At the top, the search criteria are set to "conference" and "Reuters AND AFP". The search results show 16,641 articles found. The interface includes various filters on the left side, such as "FILTER BY LANGUAGE OF ARTICLES", "FILTER BY NEWSPAPER TITLES", "FILTER BY ARTICLE TYPE", "FILTER BY COUNTRY OF PUBLICATION", "FILTER BY ACCESS RIGHT", "FILTER BY ARCHIVE", "FILTER BY PERSON", "FILTER BY LOCATION", "FILTER BY TOPIC", and "FILTER BY NEWS AGENCY". The "FILTER BY NEWS AGENCY" filter is expanded, showing a list of news agencies with checkboxes and result counts. The agencies listed are Reuters (16,641 results), AFP (16,641 results), ATS SDA (3,361 results), UP UPI (1,430 results), and AP (785 results). The search results on the right show a list of articles, including "Die Tat" and "Erdbeben registriert Pasadena (Kaliforni...)".

Media Monitoring
impresso of the Past

Search ... Newspapers Topics Inspect & Compare Text reuse

SEARCH ARTICLES SEARCH IMAGES NGRAMS

GROUP BY ARTICLE ORDER BY RELEVANCE DISPLAY

16,641 articles found containing conference gathered by Reuters and AFP

add keyword to search

LOGIN TO VIEW IMAGE

Die Tat WEDNESDAY, MAY 1, 1968 – p.13
Personal use

Zürich . (UP) 624 , 8 Millionen Franken zahlten die in der Schweiz tätigen Leberherungsgesell . schaffen im Jahre 1967 aus , jeden Tag durch

LOCATIONS Zürich District, Switzerland, NATO, ATP World Tour Finals, Switzerland, Lagos, Nigerian records in athletics, Pound sterling, Montevideo

PEOPLE ATP World Tour Finals

. Mai an gewähren die « Atlantic Passenger Steamship Conference Lines » 1968

VIEW ADD TO COLLECTION ...

LOGIN TO VIEW IMAGE

Erdbeben registriert Pasadena (Kaliforni...)
Freiburger Nachrichten WEDNESDAY, JUNE 16, 1954 – p.8
Personal use

Erdbeben registriert Pasadena (Kalifornien) , 16 . Juni . ag . (Reuter .) Das kalifornische Institut registrierte am Dienstag zwei

LOCATIONS Pasadena, California, University of Freiburg, Salaberry-de-Valleyfield, Switzerland

PEOPLE Ernest Hill

, und Abbe J . D . Cadieux vom Pressedienst CCC (Conference Catholique) befindet , reiste

VIEW ADD TO COLLECTION ...

ten auf Ministerebene befassen. Diese Ko...
Die Tat MONDAY, JUNE 2, 1958 – p.2
Personal use

ten auf Ministerebene befassen . Diese Konferenz soll am 15 . September in Mon

RESET

WRITTEN BY

Reuters(16,641 results)

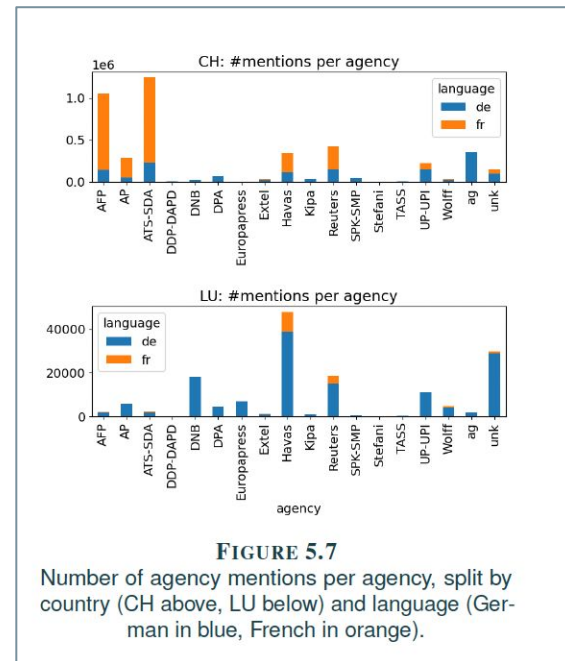
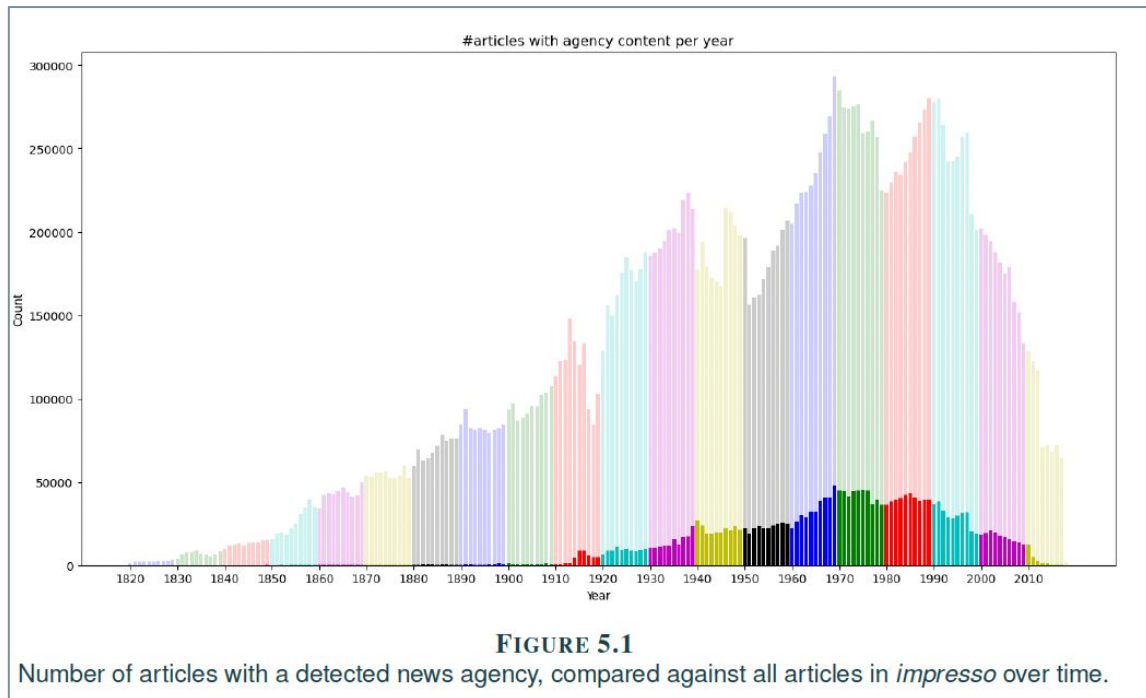
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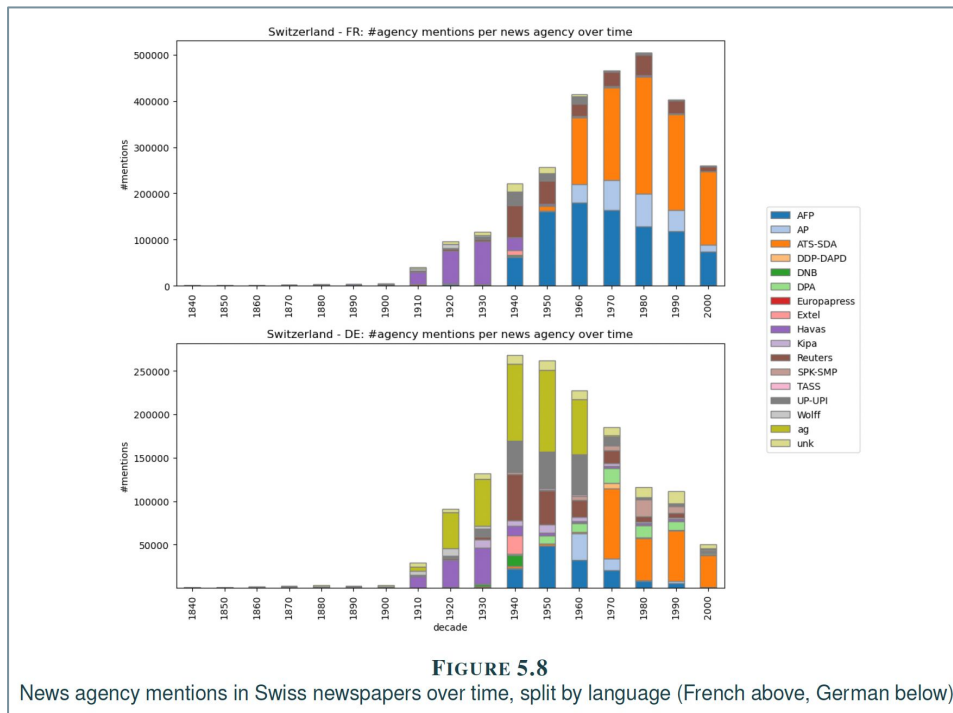
UP UPI (1,430 results)

AP (785 results)

Side project: News agency mentions



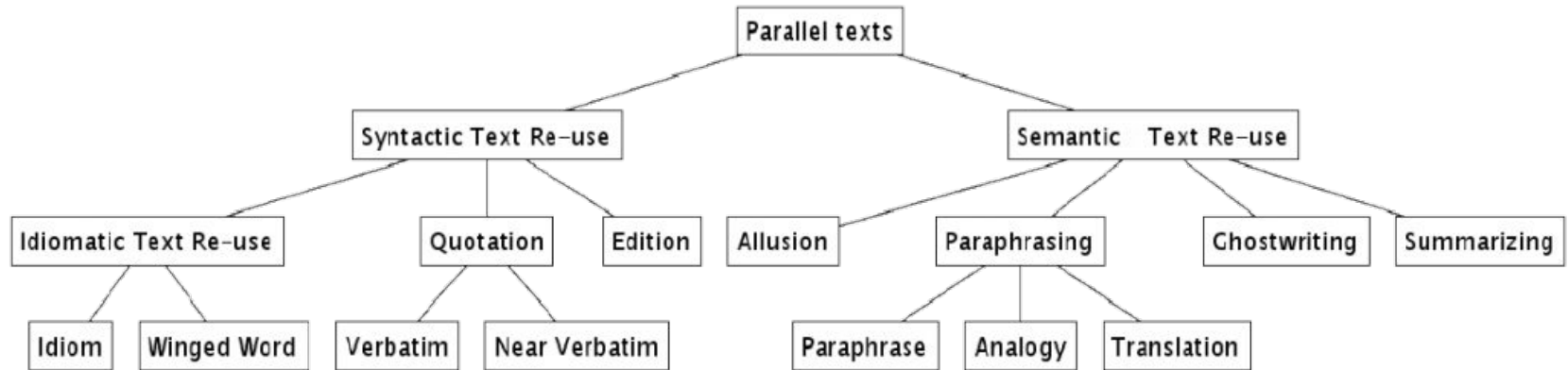
Side project: In Swiss newspapers



Why do we want to work TR in newspapers?



Types of Text Reuse



Types of Text Reuse

TYPE OF REUSE	EXAMPLES	POSSIBLE RESEARCH QUESTIONS
Quotes	Latin, biblical, famous quotes.	What was the process of quotes from Lucretius becoming epigraphs over time?
Reprints of longer passages	Reused sections or fragments from essays or treatises appearing in works by different authors.	What was the distribution of Hume's essays outside of his published works?
Modified reuse	Modified reuse of a specific work in another work.	How did Clarendon's <i>History of the Rebellion</i> feature in other historical works?
Verse reprints	Reprinting of poetry in unexpected or uncommon locations.	How did Dryden's poetry spread outside of known collections?
Unattributed reuse	Hidden or obscured reuse of texts.	Can we gain a broader understanding of the reception of Hume's essays by exploring their use in other works without proper attribution?
Artefacts	Imprint of publisher, advertisement.	What was the distribution pattern of advertising for Hume's <i>Treatise</i> in printed books in the eighteenth century?

Rosson et al. Reception Reader: Exploring Text Reuse in Early Modern British Publications, 2023,

<https://openhumanitiesdata.metajnl.com/articles/10.5334/johd.101>

	Research questions	Purpose of TR	Examples	Match with Rosson et al.
Media ecosystems	How did historical media function? How did transnational information flow shape historical media?	TR as indicator of content flow across titles and borders.	Train and telegraph lines predict the travel of news items.	
Bricolage	Where does content in historical newspapers come from?	TR to identify the patterns and fragments which constitute content and their evolution over time.	Death notices, weather reports, event anniversaries	Reprints, verse reprints
Virality	Which content spreads?	TR as an indicator of the distribution of content within media across time, space, titles.	Paju et al. 2022	
Events	How did journalists shape the content they published?	TR to reconstruct the changes in texts spreading across media along editorial lines.	Adjustments of press agency content: title, adjectives, omissions, additions.	Modified reuse
Zeitgeist	How did ideas co-evolve?	TR to trace co-evolving ideas.	“A shared way” to write text, design adverts	quotes
Unattributed reuse*	Which content circulated without attribution?	TR as evidence for undeclared reuse.	Plagiarism	Unattributed reuse
Data cleaning*	When does TR reduce data quality?	TR as indicators of unwanted duplicates	Mastheads, co-publication	Artefacts

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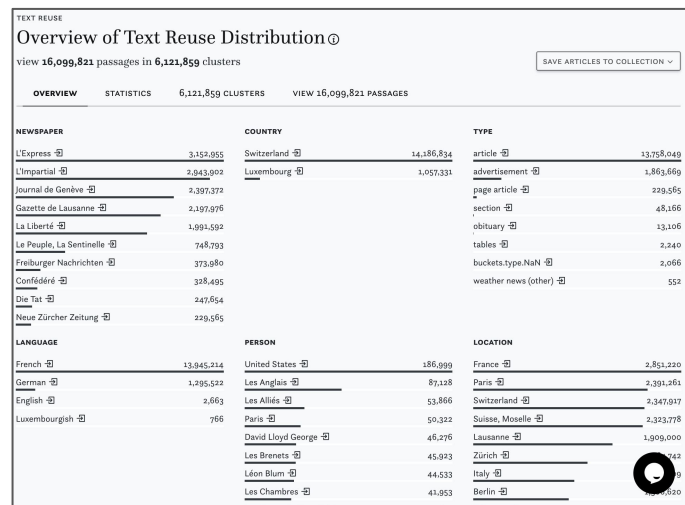
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Events	How did journalists shape the content they published?	TR to reconstruct the changes in texts spreading across media along editorial lines.	Adjustments of press agency content: title, adjectives, omissions, additions.
Zeitgeist	How did ideas co-evolve?	TR to trace co-evolving ideas.	“A shared way” to write text, design adverts
Unattributed reuse*	Which content circulated without attribution?	TR as evidence for undeclared reuse.	Plagiarism
Data cleaning*	When does TR reduce data quality?	TR as indicators of unwanted duplicates	Mastheads, co-publication

What do we want to do with text reuse data?



Task	Title	Level	Support
1	Obtain an overview of text reuse in a corpus, collection or query	Corpus	Yes
2	Obtain an overview of a single cluster Cluster	Cluster	Yes
3	Compare passages	Passages	Yes
4	Compare clusters	Cluster	Yes
5	Identify different types of text reuse	Corpus	Yes
6	Generate research corpora based on text reuse clusters	Corpus	Yes
7	Identify connections	Corpus	Partial
8	Detect and trace virality	Corpus	No
9	Search for passages	Passages	No
10	De-duplicate content	Corpus	No
11	Export of text reuse data	All	Planned



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SEARCH TEXT REUSE PASSAGES

🔍 Lexical overlap between 76 and 10 ▾

☰ "hiroshima" ▾

📄 tr-nobp-all-v01-c180388965941 ▾
✕

hiroshima
🔍

FILTER BY TEXT REUSE CLUSTERS (1 OPTION) ⓘ RESET

results are filtered when:

- cluster **c180388965941**
81.48% lexical overlap the same day (Thu, Aug 5, 2010).

Aucun président américain en exercice ne sest rendu dans les deux villes martyres . Mais d aucuns dans l archipel espèrent une visite de Barack Obama à Hiroshima en novembre .

(3 results) 📄

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COMPARE TEXT REUSE PASSAGES ✕

MONDAY, NOVEMBER 28, 1910 "M. Winston Churchill, ministre du commerce, pronon..." TEXTREUSEPASSAGE

Compare the passage below with # of 3 passages BY DATE (DESC) ▾

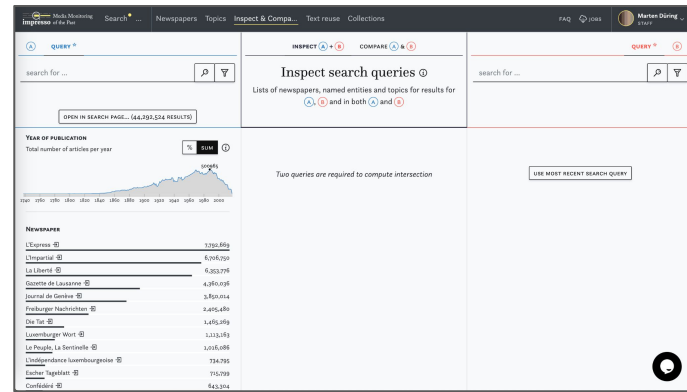
lia crise britaillillic.
Gazette de Lausanne 📄 MONDAY, NOVEMBER 28, 1910 – P.2

M. Winston Churchill, **ministre du commerce**, prononçait ven- dredi soir à Bradford a été coupé de plu- sieurs interruptions de suffragistes et de suffragettes qui ont été expulsés à tour de rôle. Comme l'orateur rentrait de Bradford à Londres, il fut attaqué dans le train par un individu, qui a essayé de le frapper avec une cravache en disant : « Voilà pour toi, chien ! » Deux agents de police parèrent le coup et s'emparè- rent de l'homme après une lutte violente. A la gare de Londres, trois femmes ont également essayé de frapper M. Churchill ; elles en ont été empêchées par les agents.

Les suffragistes font de l'action directe
L'indépendance luxembourgeoise 📄 TUESDAY, NOVEMBER 29, 1910 – P.2

M. Winston Churchill, **revenant à Londres, après avoir prononcé un dis- cours** à Bradford, où les suffragettes et leurs partisans avaient déjà violemment manifesté contre lui, a été attaqué dans le train par un individu, qui a essayé de le frapper avec une cravache en disant: «Voilà pour toi, chien!» Deux agents de police, qui accompagnaient M. Churchill, parèrent le coup, et s'em- parèrent de l'homme, après une lutte violente. **On croit que l'assailant est un des suffragistes expulsés de la réunion où M. Winston Churchill venait de parler.** A la gare de Londres, trois femmes ont également essayé de frapper M. Chur- chill ; elles en ont été empêchées par les agents.

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Media Monitoring
impresso of the Past
Search ... Newspapers To

SEARCH TEXT REUSE PASSAGES

🕒 Text reuse time span between 55, : v

🔍 Lexical overlap between 13 and 87 v

🗨️ vie · monde · mort · foi · peuple **or** v

hiroshima 🔍

X

NUMBER OF PASSAGES PER YEAR ⓘ
Number of text reuse passages per year

1820 1840 1860 1880 1900 1920 1940 1960 1980 2000

ADD NEW DATE FILTER ...

CLUSTER SIZE ⓘ
How to read histograms ⓘ

2 44

LEXICAL OVERLAP ⓘ RESET

16 85

Job adverts - intentional distribution

COMPARE TEXT REUSE PASSAGES ×

THURSDAY, MARCH 12, 1992 "selbst , dass nur Kandidaten , die an einer langfr..." TYPES_TEXTREUSEPASSAGE

Compare the passage below with of 1 passages BY DATE (DESC)

UNKNOWN
Freiburger Nachrichten THURSDAY, MARCH 12, 1992 - P.8

AUSSENDIENSTMITARBEITER/
VERTRETER
La Liberté FRIDAY, MARCH 13, 1992 - P.24

selbst , dass nur Kandidaten , die an einer langfristigen An-Stellung interessiert sind , in Frage kommen . Bitte senden Sie Ihre vollständigen Bewerbungsunterlagen an : Herrn G . Liechti , Adia Zug . Er wird sich mit Ihnen telefonisch in Verbindung setzen . Alpenstr . 11 , 6300 Zug , 042 / 22 50 60

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COMPARE TEXT REUSE PASSAGES ×

SATURDAY, FEBRUARY 1, 1997 "PUBLICIT £ -----..." TYPES_TEXTREUSEPASSAGE

Compare the passage below with of 1 passages BY DATE (DESC)

NaN
Gazette de Lausanne SATURDAY, FEBRUARY 1, 1997 - P.6

NaN
Journal de Genève SATURDAY, FEBRUARY 1, 1997 - P.6

PUBLICIT £

~

----- Un / une chef de projet pour la planification des transmissions de données Depuis des années, dans le cadre de ses prestations de services dans le domaine de l'informatique et des télécommunications, l'Of- fiée fédéral de l'informatique (OFI) planifie, réa lise et exploite des réseaux basés sur les

PUBLICIT £

~

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Rectification - modified reuse

COMPARE TEXT REUSE PASSAGES ×

WEDNESDAY, OCTOBER 13, 1982 "Le solde sera acquis en Italie, en France et en Su..." TYPES_TEXTREUSEPASSAGE

Compare the passage below with of 5 passages

<p>Assez d'électricité cet hiver L'Express WEDNESDAY, OCTOBER 13, 1982 – P.2</p> <p>Le solde sera acquis en Italie, en France et en Suisse alémanique, ce qui représente environ dix millions de francs sur une année.</p>	<p>Rectificatif de l'ATS Journal de Genève THURSDAY, OCTOBER 14, 1982 – P.8</p> <p>Le solde sera acquis en Italie, France et Suisse alémanique, ce qui représente environ 100 millions de francs sur une année.</p>
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Rectificatif de l'ATS

Dans la nouvelle intitulée « Electricité: assez de courant pour cet hiver », publiée dans nos éditions d'hier, l'Agence télégraphique suisse s'est trompée dans les zéros. A la fin du deuxième paragraphe, il faut lire que « le solde sera acquis en Italie, France et Suisse alémanique, ce qui représente environ 100 millions de francs sur une année, et non pas 10 millions comme noté par erreur. (Réd.)

Event anniversaries - reprints

COMPARE TEXT REUSE PASSAGES ✕

WEDNESDAY, JANUARY 18, 2017 "Il n'y a pas de mots pour dépeindre la détresse de..." TYPES_TEXTREUSEPASSAGE

Compare the passage below

with of 1 passages BY DATE (DESC)

CE JOUR-LÀ...
L'Express 🔗 WEDNESDAY, JANUARY 18, 2017 – P.2

LES TERRIBLES INONDATIONS DE 1955
L'Impartial 🔗 TUESDAY, JANUARY 18, 1955 – P.8

Il n'y a pas de mots pour dépeindre la détresse des habitants de La Brévine, des Ponts, de La Sagne et d'ailleurs, obligés de quitter leurs fermes envahies par les eaux, et d'emmener les meubles et habits indispensables pour aller se réfugier où on leur a fait de la place ! On s'en souviendra, dans les lieux que nous décrivons ci-dessous par la photographie, infiniment plus éloquente que les mots, du radoux de la mi-janvier 1955 !

Il n'y a pas de mots pour dépeindre la détresse des habitants de La Brévine, des Ponts, de La Sagne et d'ailleurs, obligés de quitter leurs fermes envahies par les eaux, et d'emmener les meubles et habits indispensables pour aller se réfugier où on leur a fait de la place ! On s'en souviendra, dans les lieux que nous décrivons ci-dessous par la photographie, infiniment plus éloquente que les mots, du radoux de la mi-janvier 1955 !

CE JOUR-LÀ...


18 JANVIER 1955

ÉTATS-UNIS Première nucléaire. « Nous naviguons grâce à la propulsion atomique. » Tel est le message que le *Nautilus* a adressé par sémaphore au remorqueur *Skylink*, qui le convoyait vers l'embouchure de la rivière Thames. André mairin, relate «L'Impartial». Le premier sous-marin nucléaire est opérationnel. Il vogua au large des côtes du Connecticut aux Etats-Unis. «Le *Nautilus*, qui pèse 3000 tonnes et dont le coût de construction s'est élevé à 29 millions de dollars, est passé à proximité du chantier où commença à s'élever la coque du second sous-marin atomique, le *Seawolf*»

MÉTÉO Inondations désastreuses.
«Il n'y a pas de mots pour dépeindre la détresse des habitants de La Brévine, des Ponts, de La Sagne et d'ailleurs, obligés de quitter leurs fermes envahies par les eaux, et d'emmener les meubles et habits indispensables pour aller se réfugier où on leur a fait de la place! On s'en souviendra, dans les lieux que nous décrivons ci-dessous par la photographie, infiniment plus éloquente que les mots, du radoux de la mi-janvier 1955!» «L'Impartial» illustre sur une page entière les dégâts causés.

HOCKEY Le HCC fessé. 4000 spectateurs se pressent à la patinoire artificielle des Mélièzes pour voir le HCC affronter les professionnels du Milan-Inter. Les locaux donnent un tiers avant de s'incliner 16-6. 📷 DAD

Archives L'Express/L'Impartial: <http://arcinfo.ch/archives>



Quotes

COMPARE TEXT REUSE PASSAGES ✕

THURSDAY, MAY 26, 1966 "Bundesverfassung heisst es : « Im Namen Gottes des..." TYPES_TEXTREUSEPASSAGE

Compare the passage below with of 6 passages BY DATE (DESC) ▾

Was meint Exuperantius?
Die Tat 🔗 THURSDAY, MAY 26, 1966 – P.15

für «junge
Freiburger Nachrichten 🔗 SATURDAY, JANUARY 13, 1996 – P.20

Bundesverfassung **heisst es** : « Im Namen Gottes des Allmächtigen ! Die Schweizerische Eidgenossenschaft , in der Absicht , den Bund der Eidgenossen zu **befestigen** , die Einheit , Kraft und Ehre der schweizerischen Nation zu erhalten und zu fördern , hat **nachstehende Bundesverfassung angenommen — . » Und hier haben Sie den offiziellen Titel unseres schweizerischen Staatswesens : Schweizerische Eidgenossenschaft .**

der Bundesverfassung : « Im Namen Gottes des Allmächtigen ! Die Schweizerische Eidgenossenschaft , in der Absicht , den Bund der Eidgenossen zu festigen , die Einheit , Kraft und Ehre der schweizerischen Nation zu erhalten und zu fördern , hat **nachstehende Bundesverfassung angenommen . »**

COMPARE TEXT REUSE PASSAGES ✕

SATURDAY, OCTOBER 5, 1996 "de la Bible (Luc 10 : 27 : « Tu aimeras le Seigneur..." TYPES_TEXTREUSEPASSAGE

Compare the passage below with of 43 passages BY DATE (DESC) ▾

Sachons être confiants en Dieu
L'Express 🔗 SATURDAY, OCTOBER 5, 1996 – P.23

Choisir son camp
L'Express 🔗 TUESDAY, JANUARY 13, 2015 – P.27

de la Bible (Luc 10 : 27 : « Tu **aimeras** le Seigneur, ton Dieu, **de tout ton cœur**, **de toute ton âme**, **de toute ta force**, et **de toute ta pensée** ; et ton prochain **comme toi-même » et que l'on (Luc 10.27)**

« Tu **aimeras** le Seigneur, ton Dieu, **de tout ton cœur**, **de toute ton âme**, **de toute ta force**, et **de toute ta pensée** ; et ton prochain **comme toi-même . » (Luc 10.27)**

Edits of press agency content

COMPARE TEXT REUSE PASSAGES ×

MONDAY, NOVEMBER 28, 1910 "M. Winston Churchill, ministre du commerce, pronon..." TEXTREUSEPASSAGE

Compare the passage below with # of 3 passages BY DATE (DESC) ▾

lia crise britaiiilquc. **Gazette de Lausanne**  MONDAY, NOVEMBER 28, 1910 – P.2

M. Winston Churchill, **ministre du commerce,** prononçait ven- dredi soir à Bradford a été coupé de plu- sieurs interruptions de suffragistes et de suffragettes qui ont été expulsés à tour de rôle. Comme l'orateur rentrait de Bradford à Londres, il fut attaqué dans le train par un individu, qui a essayé de le frapper avec une cravache en disant : « Voilà pour toi, chien ! » Deux agents de police parèrent le coup et s'emparè- rent de l'homme après une lutte violente. A la gare de Londres, trois femmes ont également essayé de frapper M. Churchill ; elles en ont été empêchées par les agents.

L'indépendance luxembourgeoise  TUESDAY, NOVEMBER 29, 1910 – P.2

M. Winston Churchill, **revenant à Londres, après avoir prononcé un dis- cours** à Bradford, où les suffragettes et leurs **partisans avaient déjà violemment manifesté contre lui, a été** attaqué dans le train par un individu, qui a essayé de le frapper avec une cravache en disant: «Voilà pour toi, chien!» Deux agents de police, **qui accompagnaient M. Churchill, parèrent le coup, et s'em- parèrent de l'homme, après une lutte violente. On croit que l'assaillant est un des suffragistes expulsés de la réunion où M. Winston Churchill venait de parler.** A la gare de Londres, trois femmes ont également essayé de frapper M. Chur- chill ; elles en ont été empêchées par les agents.

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10	De-duplicate content	Corpus	No
11	Export of text reuse data	All	Planned

Create new collection ✕

Please note: Collections are currently limited to 10.000 items. ⓘ

COLLECTION NAME

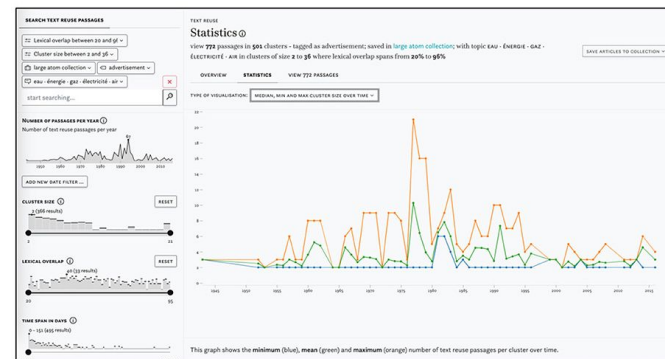
collection of bible quotes

DESCRIPTION

with topic vie · monde · mort · foi · peuple or problème · fait · question · exemple · monde where lexical overlap spans from


CANCEL
CREATE

Task	Title	Level	Support
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ANGLETERRE

Journal de Genève  WEDNESDAY, SEPTEMBER 12, 1883 – P.2

Le dernier courrier du Japon nous apprend qu'un incendie a détruit en grande partie la prison de Hiroshima. Soixante ou détenus ont été brutes vifs, et 156 ont été plus ou moins grièvement blessés. Profitant de la confusion, 120 prisonniers se sont enfuis, et 15 d'entre eux. s'heureusement ont pu être recapturés.

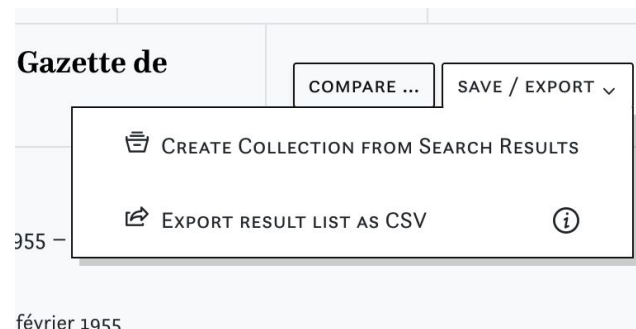
Cluster size: 3 passages with 58.33% lexical overlap over 3 days.
Content length: 317 tokens.

COMPARE WITH OTHER PASSAGES IN CLUSTER

Task	Title	Level	Support
1	Obtain an overview of text reuse in a corpus, collection or query	Corpus	Yes
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Temporalities in text reuse data

Type	Description	Measures	Examples
Duration	The time period which is covered by a cluster ranging from the earliest to the latest publication date of individual passages.	Publication date	Paju et al.'s notions of fast and slow text reuse fall into this category.
Virality	The speed (measured in days) and breadth of text reuse passages spreading within a corpus. Speed corresponds to time passed (e.g., days) whereas breadth corresponds to the number of publications which contain a passage at a given point in time.	Publication date, number of publications	News of the sinking of the Titanic or the destruction of the Hindenburg Zeppelin traveled around the world within days or weeks.
Rhythm	Pattern with which text reuse passages appear over time.	Distance between publication dates	Reprints of articles on the occasion of their anniversary, e.g., on the occasion of the bombing of Hiroshima.

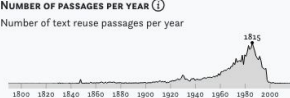
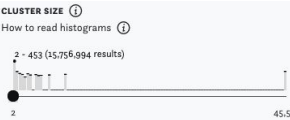
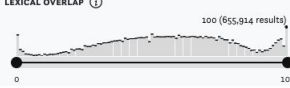
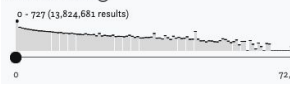

Next steps?



Future development of the application should focus on these tasks / features / overall improvements: *

I would repeat what I wrote earlier--more historical/humanistic contextualization is needed to help users understand how the mechanics of text reuse, as represented in the variables users can use to filter data, reflect distinct historical genres, texts, technologies of reproduction, etc.

Capture the characteristics of text reuse through filters

Measure	Description	Implementation in interface prototype
Passages per year	Number of passages counted in a given year.	Line chart which displays the count of passages per year for a given query or filter operation. This gives a first indication, during which years text reuse occurred more commonly. Time sliders and precise date entry allow users to filter for exact date ranges to inspect. 
Cluster size	The number of passages contained in a cluster.	Histogram which shows the distribution of text reuse cluster sizes and indicates the highest score. The histogram groups clusters of size n and displays their sum. This gives a first indication of averages as well as outliers. Sliders can be used to specify a cluster size range of interest. Filtering by cluster size allows to exclude or explicitly focus on outliers but different cluster sizes may also correspond to different types of content. 
Lexical overlap	The percentage of unique tokens that all passages in a cluster have in common. All text was lowercased and punctuation was stripped.	Histogram which shows the distribution of lexical overlap in percent and indicates the largest number of clusters for a given score. Extremely low lexical overlap decreases the chance to discover meaningful text reuse whilst extremely high overlap will only reveal near-copies of content and may be too restrictive for some purposes. 
Time span	The time window covered by documents in the cluster, measured in number of days.	Histogram which shows the gap between the earliest publication date of an article in a text reuse cluster and the latest measured in days and indicates the largest number of passages for a given score. This is an efficient approach to discover or filter for instances of slow, mid-range and rapid text reuse. The histogram groups clusters by the number of days in between publication dates and displays their sum. 
Text reuse clusters	Clusters store text segments (or passages) that are reused in different units of a corpus.	List of text reuse clusters which match a given query, sorted by number of passages. Each cluster is characterized with basic information (passages count, lexical overlap, time periods and years covered) as well as a snippet preview of the passage. Clusters are sorted by the number of matching passages. Clusters can be selected manually for further inspection in the Text Reuse app or in other <i>impresso</i> components such as Search. 

Data-driven text reuse classification?

	Passages per year	Cluster size	Lexical overlap	Time span (=duration)
Reprints of historical materials	Few	Small	Very high	Very large
Co-publication	Many	Rather small	Very high	Very short
Advertising campaign	Many	Large	High	Varies

Finally..

Do we need a(nother) universal typology of historical TR types?

Do TR types have distinct properties (lex overlap, temporality, cluster/passage size, links to other sem enrichments) across source types?

Can we classify them analogue to the way we can predict content types?

E.g. quotes, unattributed reuse, modified reuse, rhythmic

Impresso use case: “Which types of TR can I find in my collection of articles?”

Can we link texts between between spoken and written text and languages?

How do we do TRD in the LLM age?

impresso - Media Monitoring of the Past II. Beyond Borders: Connecting Historical Newspapers and Radio

09/2023 - 02/2027

Main objectives

1. **Enrichment and integration** of newspaper and radio sources
2. **Expand** the corpus to Western Europe
3. **Develop** interfaces for exploratory and computational research
4. **Conduct** case studies in (media) history, theme “influences”

Partners

National or state libraries (holding digitised newspaper collections)

Bibliothèque Nationale Suisse, BN
Bibliothèque Nationale du Luxembourg, BNL
Österreichische Nationalbibliothek, ONB
Staatsbibliothek zu Berlin, SBB
The British Library (BL)
Bibliothèque nationale de France, BnF
Staats- und Universitätsbibliothek Hamburg, HUB
Bibliothèque royale de Belgique/Koninklijke Bibliotheek van België, KBR
Koninklijke Bibliotheek, KB

Newspapers

Le Temps
Neue Zürcher Zeitung

Audiovisual heritage institutions and archives (holding digitised radio collections)

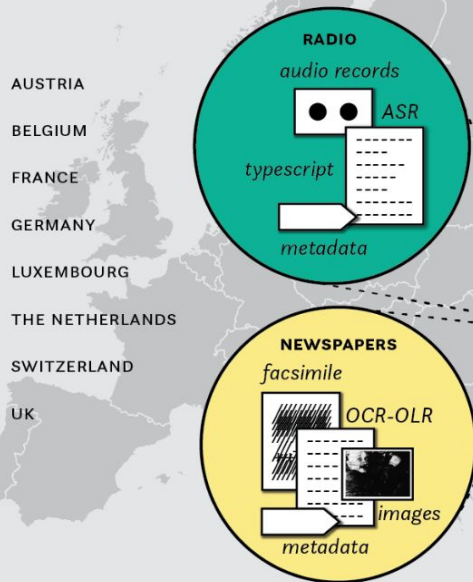
Radio Television Suisse (RTS)
Österreichischer Rundfunk, ORF
British Broadcasting Corporation (BBC)
DeutschlandRadio
Institut National de l'Audiovisuel, INA
Nederlands Instituut voor Beeld en Geluid, NISV

Research Networks

Entangled Media Histories Research Network for European media historians (EMHIS)
Memoriav, the Swiss network for audiovisual cultural heritage preservation
infoclio.ch

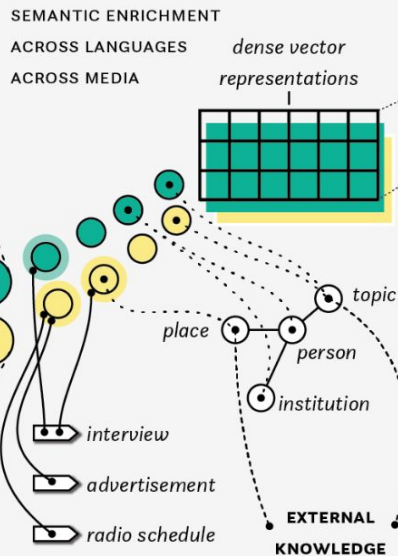
1 Source collection

European media archives



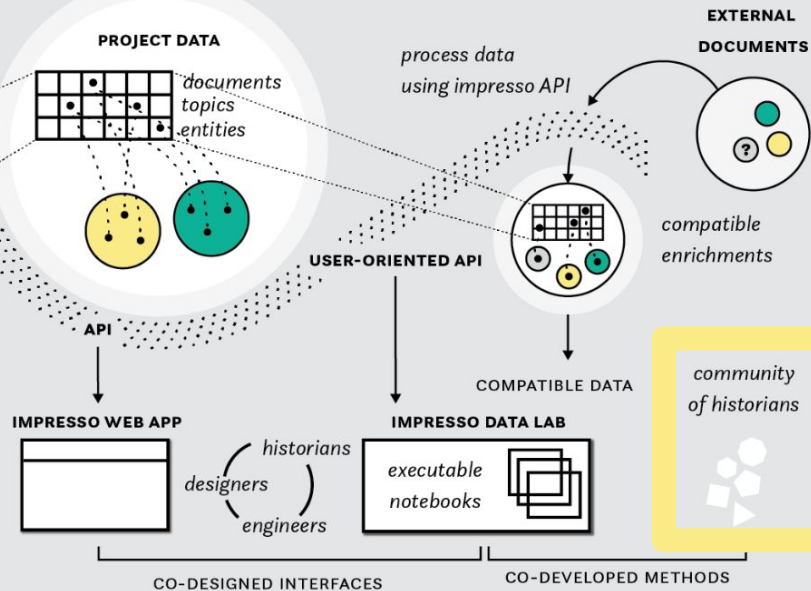
2 Media processing

Enriching & connecting



3 Media exploration

Connected and comparable enriched media sources



Thank you

impresso
Media Monitoring of the Past

Media Monitoring of the Past

Mining 200 years of historical newspapers

How can newspapers help understand the past? How to explore them?

The objective of the project "Media monitoring of the past. Mining 200 years of historical newspapers" is to enable **critical text mining of newspaper archives** with the implementation of a technological framework to extract, process, link, and explore data from print media archives. Supported by an **interdisciplinary consortium** composed of computational linguists, digital humanists, designers, historians, librarians and analysts, *impresso* (i.e. "what has been printed") will tackle the challenges of **content enrichment and data representation, visualization and analysis**, completed by **methodological and epistemological reflections**. Expected outcomes include, among others, a set of natural language processing (NLP) tools dedicated to historical print media, visualization interfaces for active exploration and critical analysis of newspaper corpora in a transparent manner, as well as a digital history research project on resistance to European unification in the late 19th and early 20th centuries.

Time frame: September 2017 - August 2020
Funding: Swiss National Science Foundation

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impresso website (update soon)

zenodo

Impresso - Media Monitoring of the Past

Recent uploads

- Extended Overview of CLEF-HiPE 2020: Named Entity Processing on Historical Newspapers**
@ Elrmeyri, @ Bonamini, @ Pasquier, @ Clementis
This paper presents an extended overview of the first edition of HiPE (Identifying Historical Periods, Names and other Entities), a pioneering pilot task dedicated to the evaluation of named entity processing on historical newspapers in French, German and English. Steps to reproduce some leeway.
Submitted on October 23, 2020
- CLEF-HiPE 2020 Named Entity Recognition and Linking on Historical Newspapers (slides)**
@ Elrmeyri, @ Meuld, @ Bonamini, @ Walter, @ Pasquier, @ Clementis
Slides of the HiPE 2020 task overview during the CLEF 2020 conference.
Submitted on September 23, 2020
- Deep diving in NLP enhanced digitised newspapers. A hands-on session with the impresso interface**
Workshop: 10 days (10am-6pm) during winter semester for a hands-on presentation of the impresso interfaces, dedicated to enable critical text mining of newspaper archives with the implementation of a technological framework to extract, process, link, and explore data from print media archives. Supported by a consortium composed of:
Submitted on June 4, 2020
- Introducing the CLEF 2020 HiPE Shared Task: Named Entity Recognition and Linking on Historical Newspapers**
Submitted on September 23, 2020

data on Zenodo

impresso-project

Media Monitoring of the Past

Repository

- fakenews-quiz**
Set of instructions for using data in the framework of HiPE. HiPE class
Updated 7 hours ago
- impresso-language-identification**
Updated 7 hours ago
- epfl-aha-class**
Set of instructions for using data in the framework of HiPE. HiPE class
Updated 7 days ago
- federal-gazette**
Updated 8 days ago
- impresso-data-sanitycheck**
Code to perform sanity checks on the prepared newspaper data.
Updated 8 days ago
- impresso-aha-acquisition**
Python library to import COC data in various formats into the canonical JSON format defined by the impresso project.
Updated 8 days ago
- CLEF-HiPE-2020-internal**
Materials related to the CLEF-HiPE task.
Updated 10 days ago
- impresso-technical-cookbook**
The high-technical documentation of impresso acquisition.
Updated 10 days ago
- impresso-gycommons**
Python module with lots of image objects, functional highly reusable within impresso.
Updated 10 days ago

code on GitHub

impresso Project

HOME VIDEOS PLAYLISTS CHANNELS DISCUSSION ABOUT

Media Monitoring of the Past

How can newspapers help understand the past? How to explore them?

The objective of the impresso project is to enable critical text mining of newspaper archives with the implementation of a technological framework to extract, process, link, and explore data from print media archives. Supported by an interdisciplinary consortium composed of computational linguists, digital humanists, designers, historians, librarians and analysts, *impresso* (i.e. "what has been printed") will tackle the challenges of content enrichment and data representation, visualization and analysis, completed by methodological and epistemological reflections.

Created playlists

- CLEF-HiPE 2020
- HiPE 2020 - conference
- Furuz2-impresso

Uploads

- HiPE 2020 - Binler Team
- CLEF-HiPE 2020 - NLP-UQAM Team
- CLEF-HiPE 2020 - ERTIM Team

impresso youtube channel

impresso-project.ch

Media Monitoring of the Past

78 newspapers collected,
600,919 issues,
5,429,856 pages scanned,
47,782,448 content items identified,
3,455,700 images,
19,493,358,793 words,
2 countries of publication
330,086 named entities disambiguated

Mining 200 years of historical newspapers

How can newspapers help understand the past? How to explore them?

info @ impresso-project [dot] ch
project website: impresso-project.ch
github: impresso
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