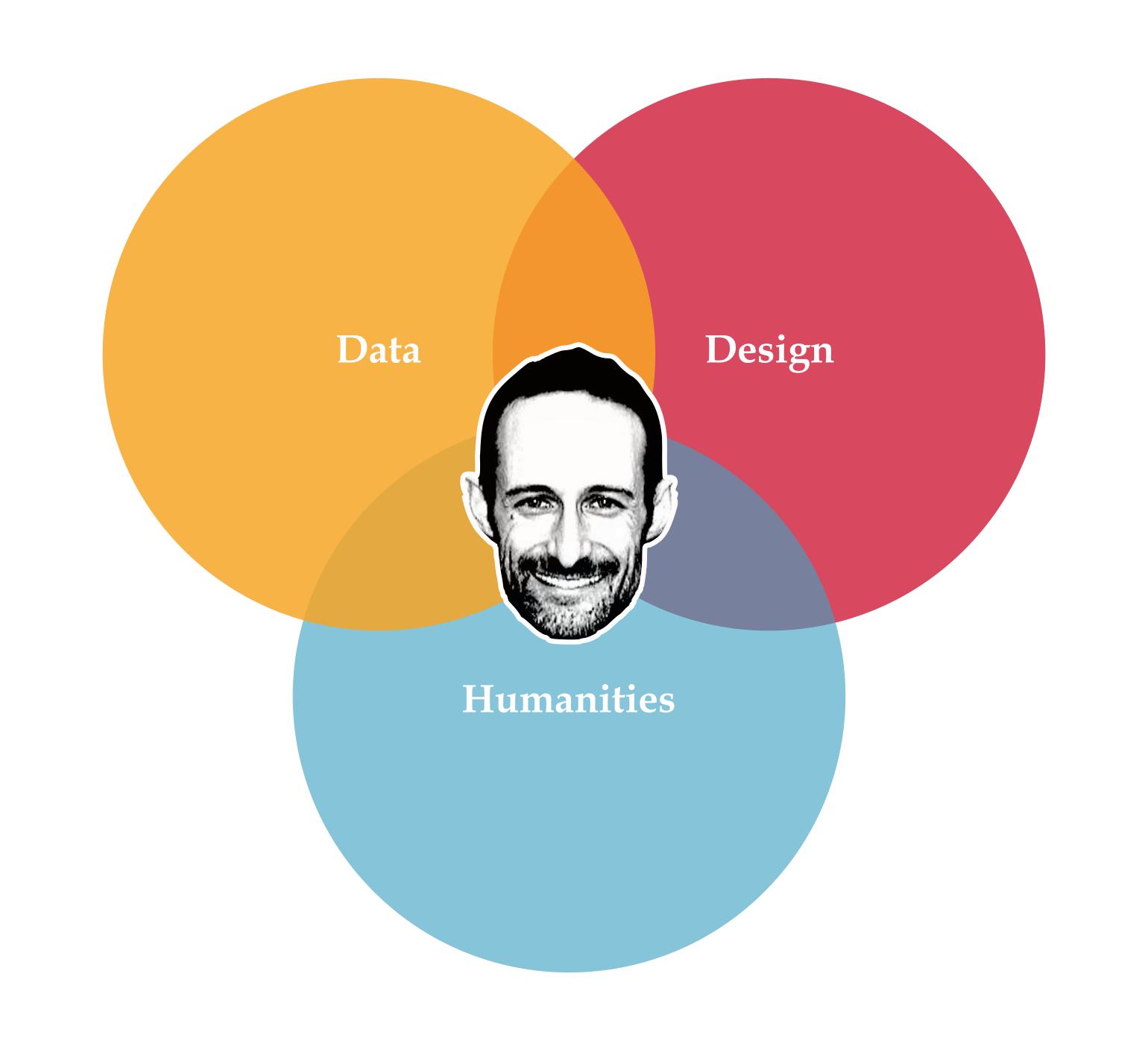
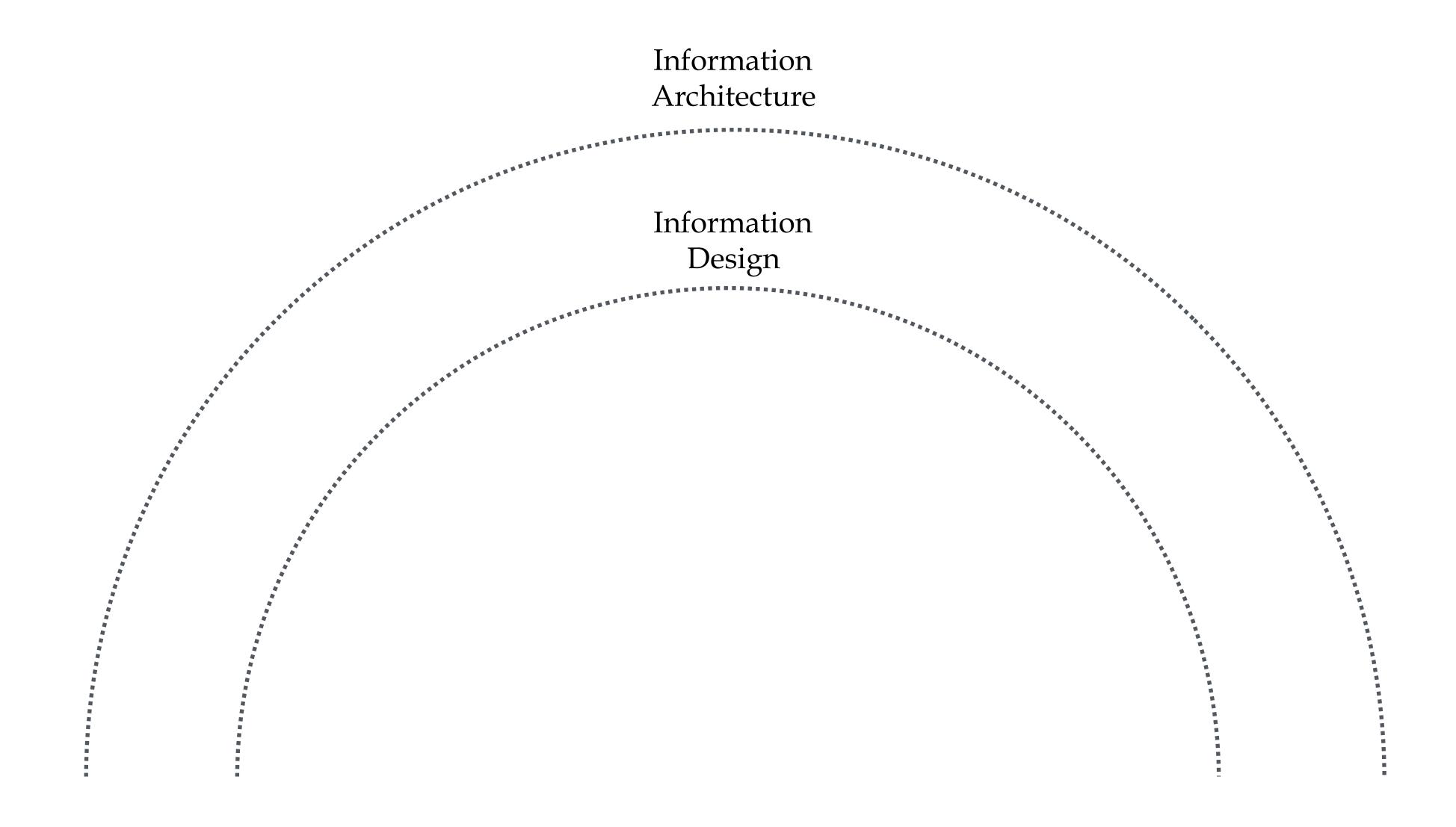
## Digital Tools for Digital Humanists: Information Design and Data Visualization

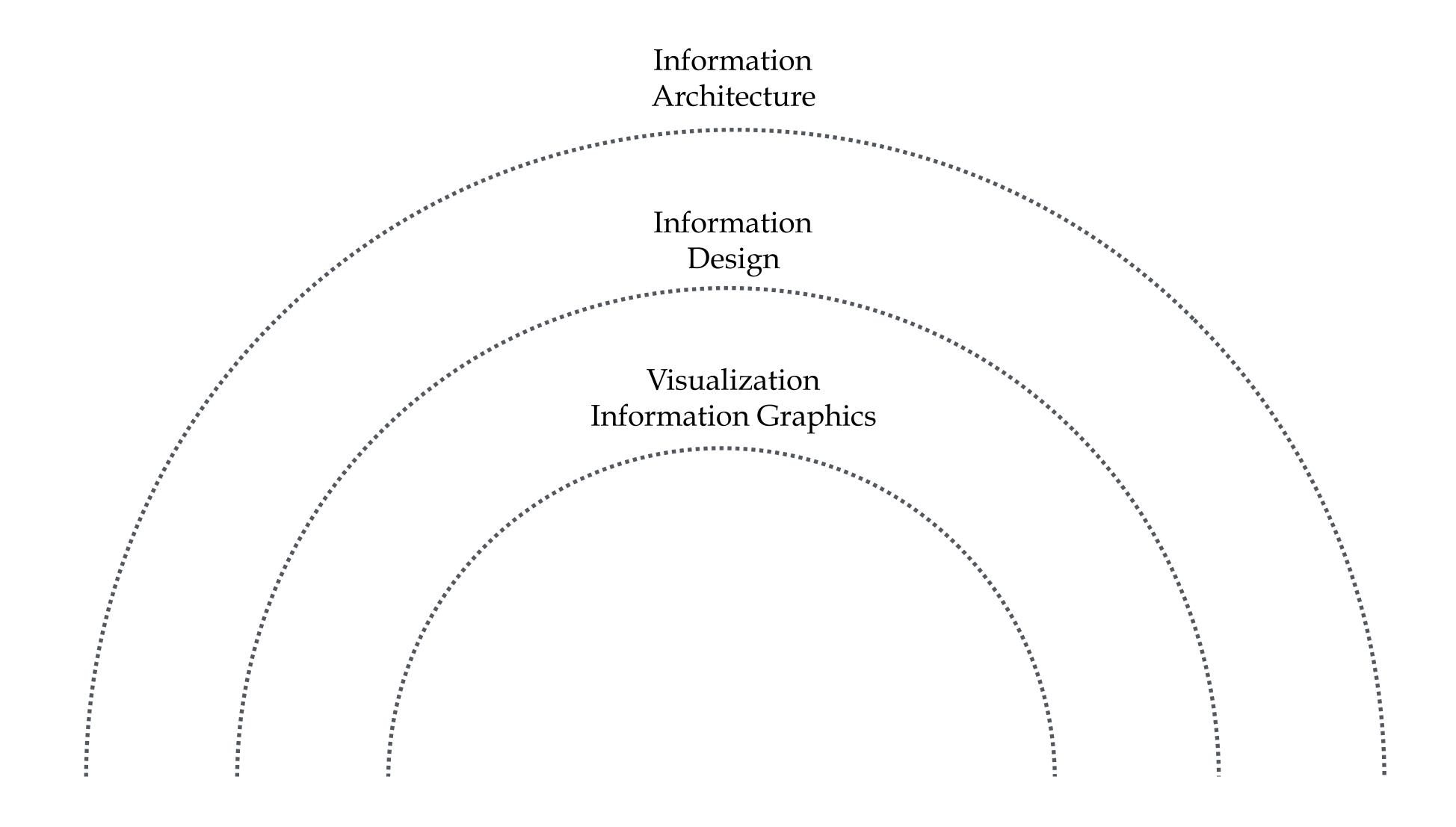
Glauco Mantegari



"Information design is defined as the art and science of preparing information so that it can be used by human beings with efficiency and effectiveness".

-Robert E. Horn, 2000





Analysis ..... Narration

## Data Visualization

## Information Graphics

Raw data Interpreted data

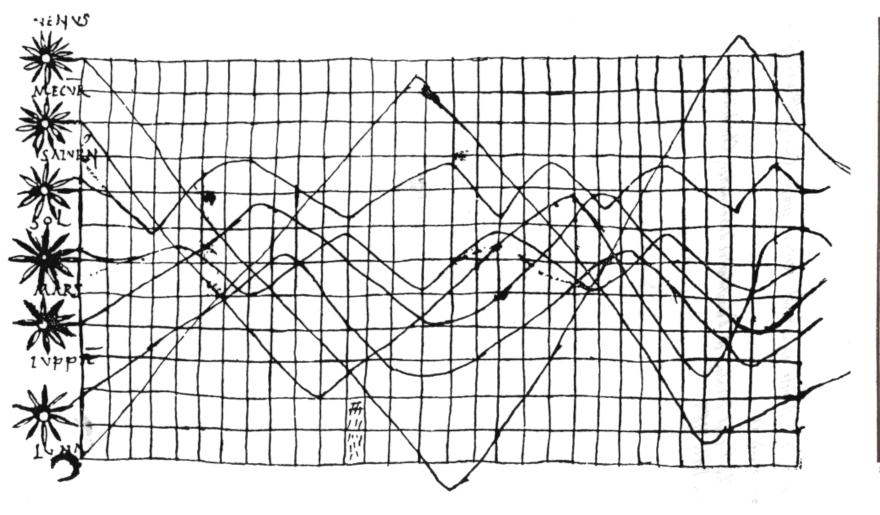
No editing Editorial processes

Science

#### to visualize data and information

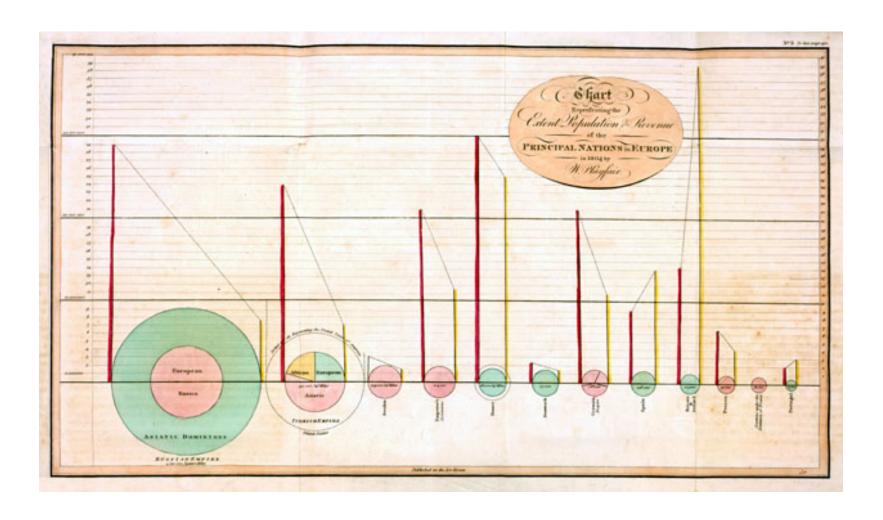
to make complex phenomena (visually) accessible and "usable"

-Paolo Ciuccarelli

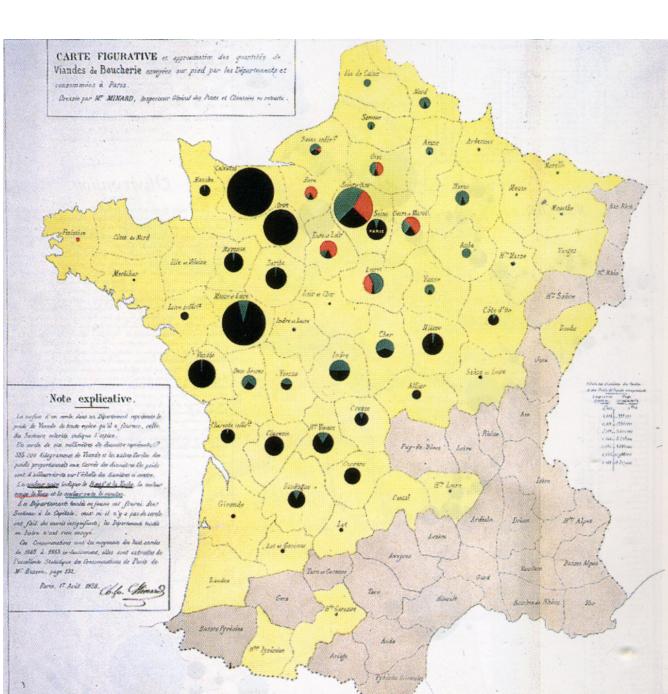


Exports and Imports to and from DENMARK & NORWAY from 1700 to 1780. BALANCE in FAVOUR of 120 ENGLAND. 110 BALANCE AGAINST

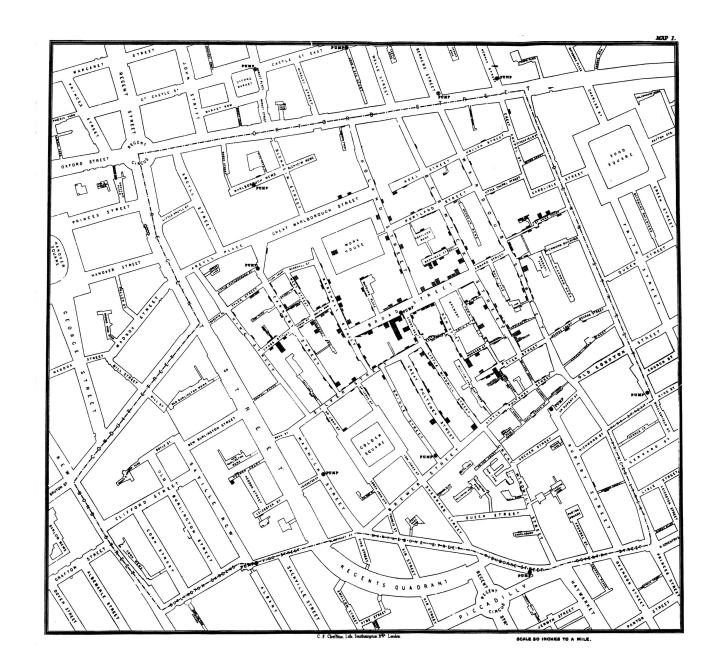
Playfair, 1786

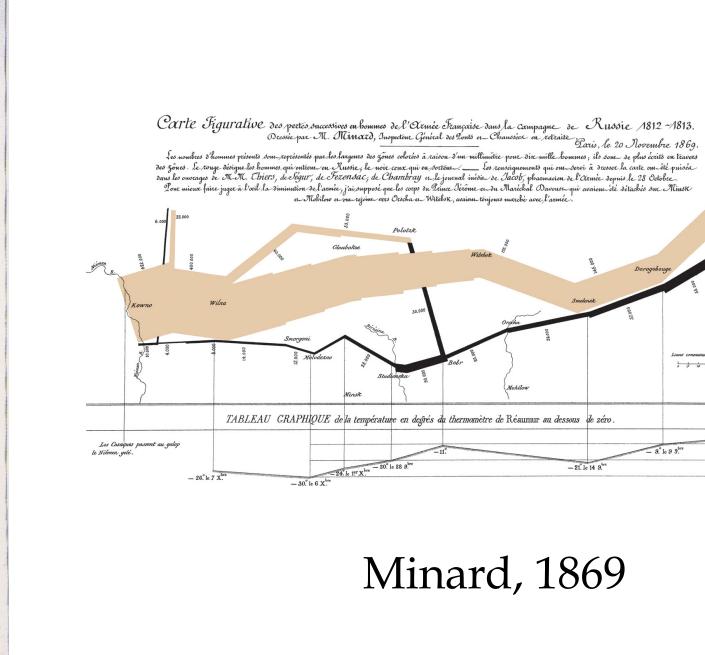


Su Song, 1092



Playfair, 1805





Minard, 1869

0 5 10 15 20 25

Snow, 1854

Minard, 1858

Source: images from the Web



## John W. Tukey

# EXPLORATORY DATA ANALYSIS

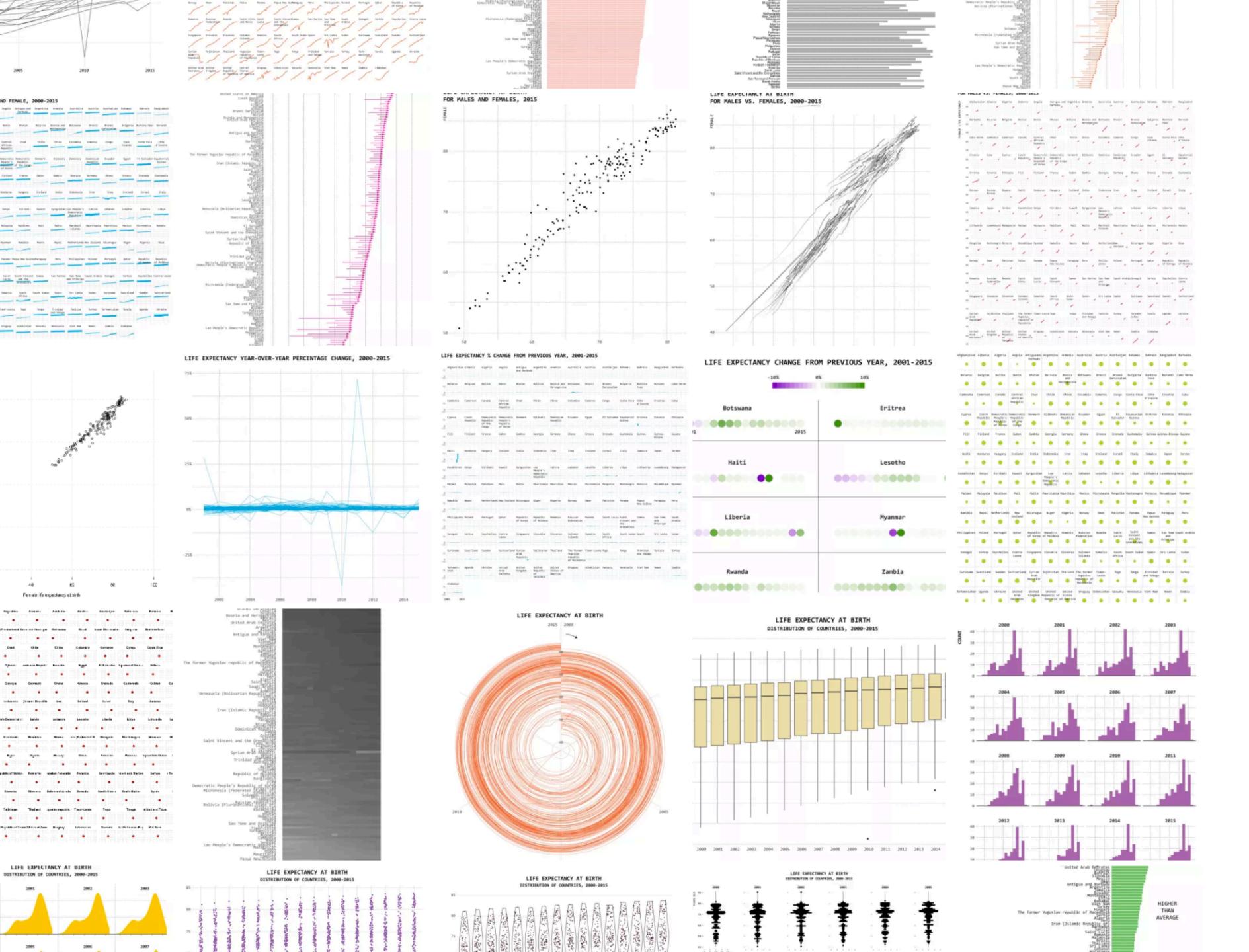


Source: images from the Web





- No strict r	ules exist to cre	eate effective	visualizations -



## flowingdata.com

One dataset visualized 25 ways

Source: https://flowingdata.com/ 2017/01/24/one-dataset-visualized-25ways/ Practically speaking ...



Browse

Collections

Contribute



#### Welcome to Early Modern Letters Online

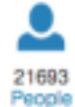
Created by the Cultures of Knowledge Project with generous funding from The Andrew W. Mellon Foundation, Early Modern Letters Online — EMLO — is a combined finding aid and editorial interface for basic descriptions of early modern correspondence.

#### Search



#### The data

Hartlieb's correspondence: 4833 letters (sent/received)



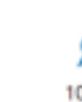












Letters



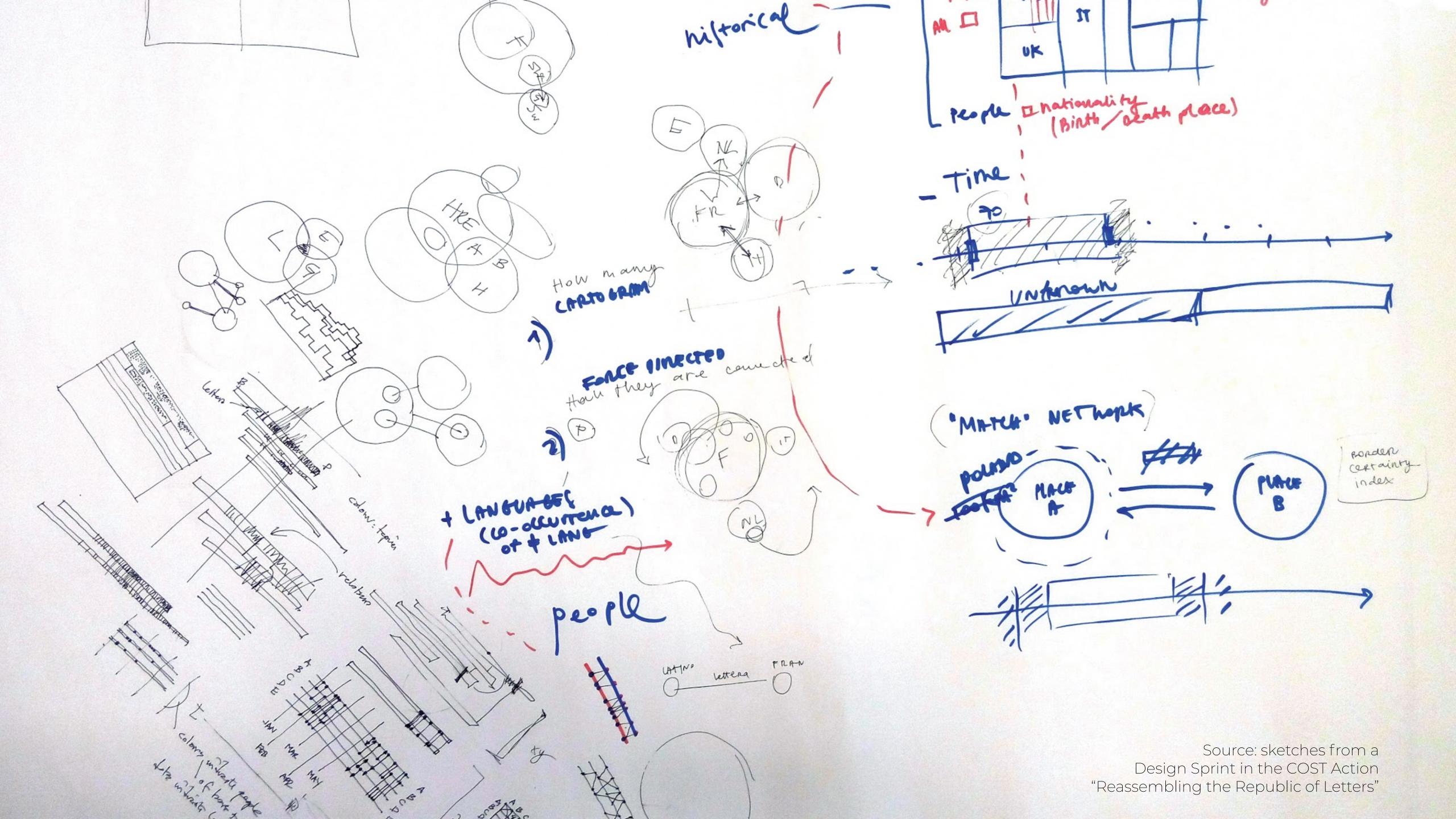






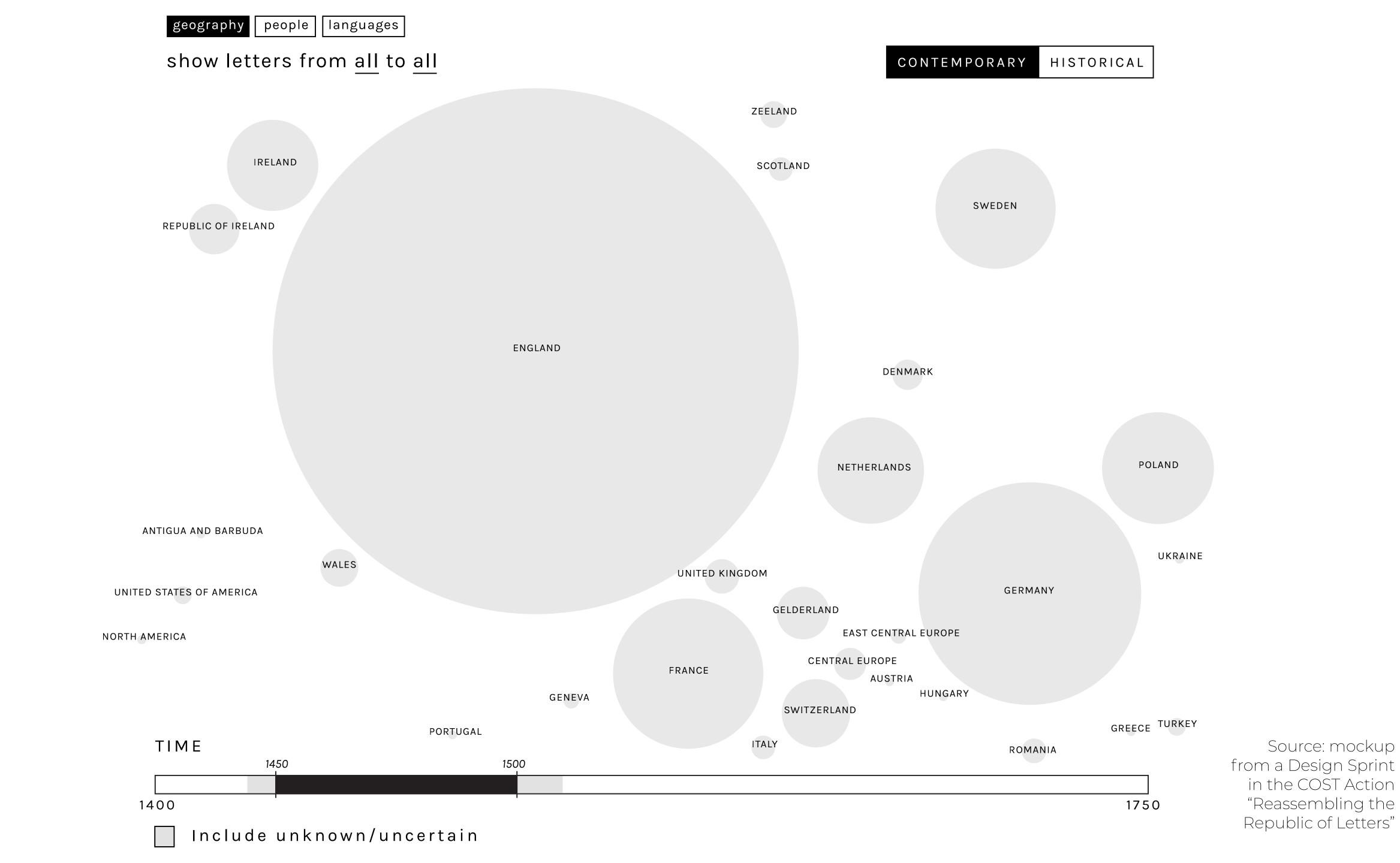
Comments





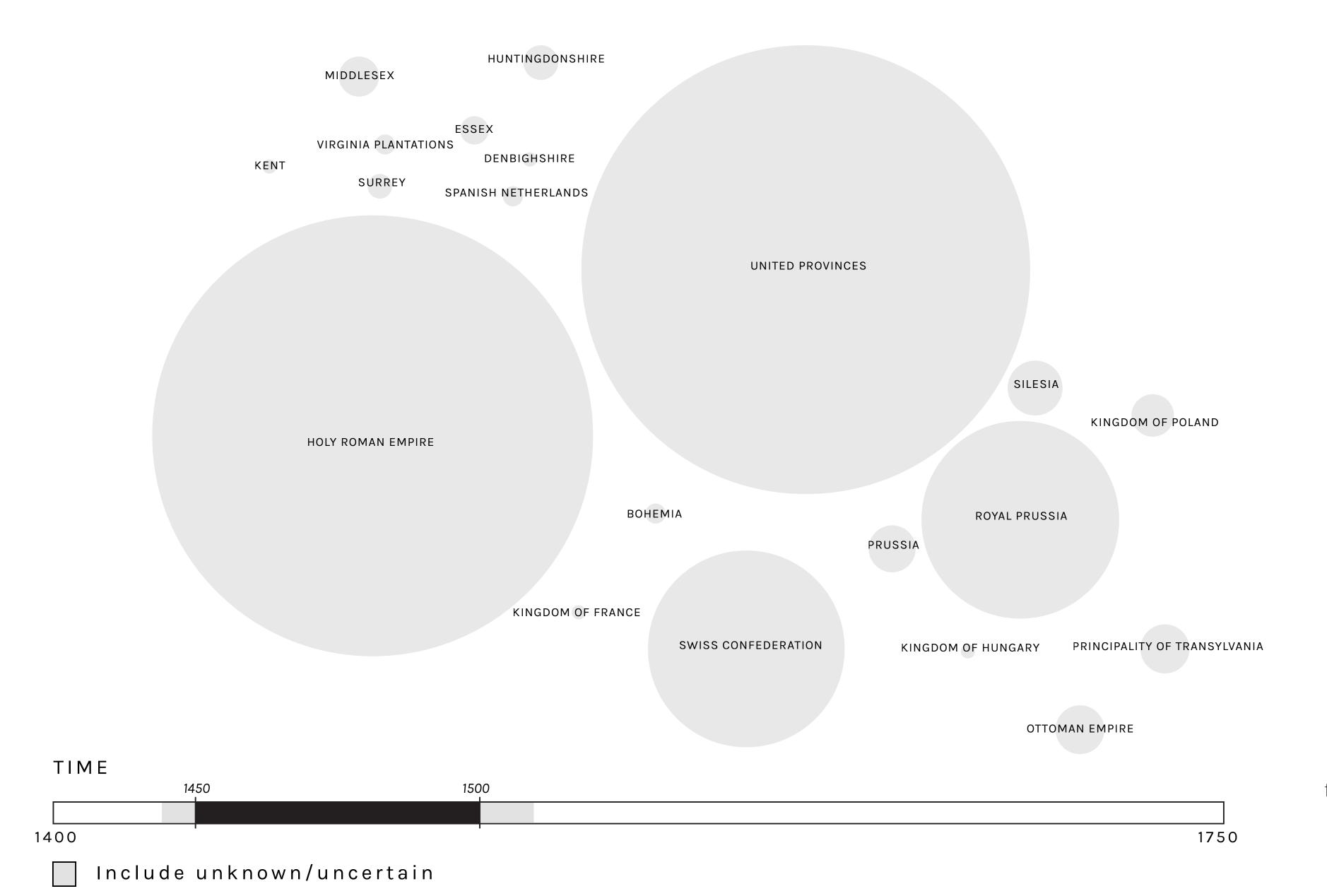
## Geographical data

Historical vs modern perspective
Boundaries change over time
Different granularities and hierarchies

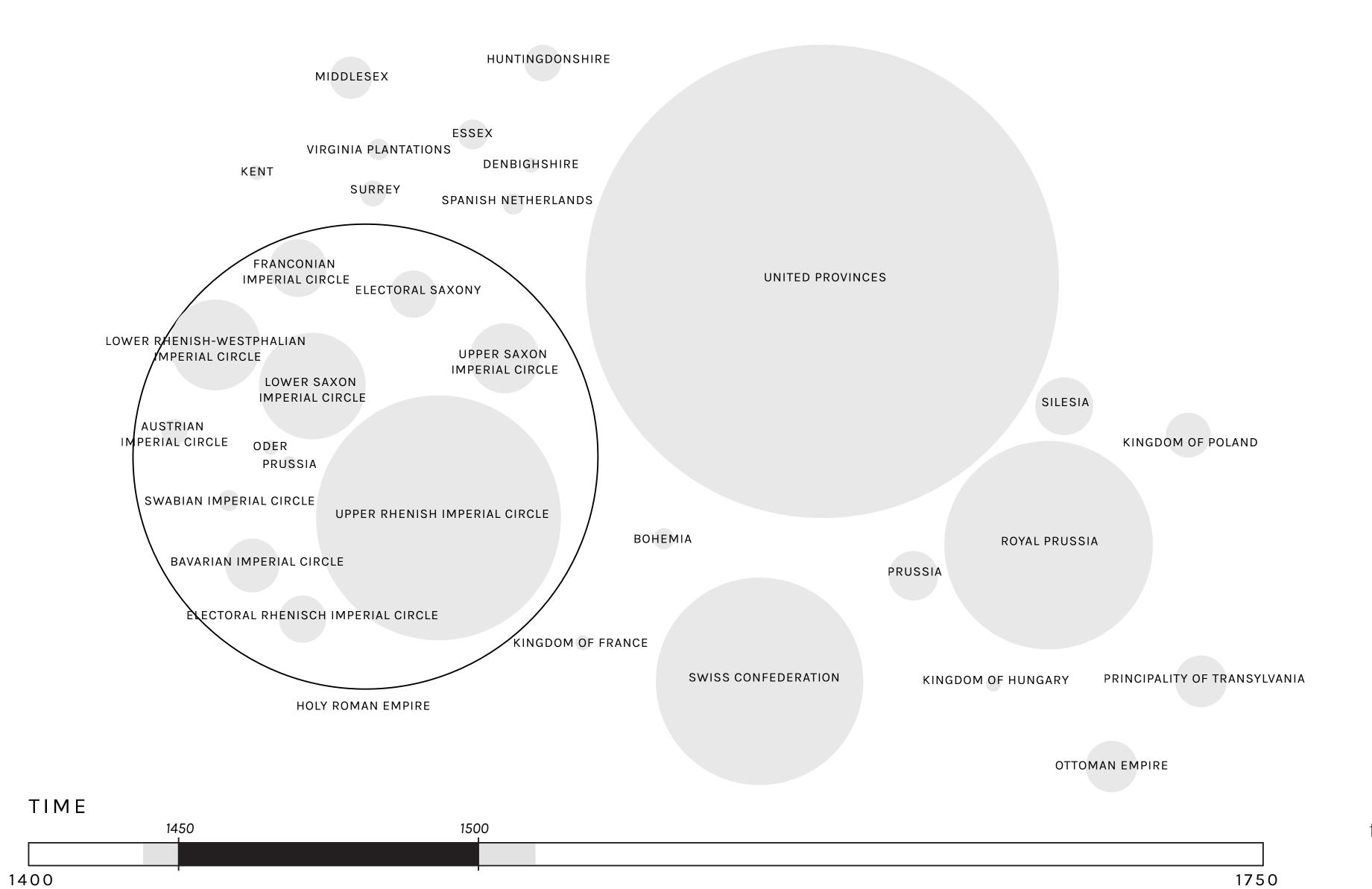


show letters from all to all

CONTEMPORARY HISTORICAL



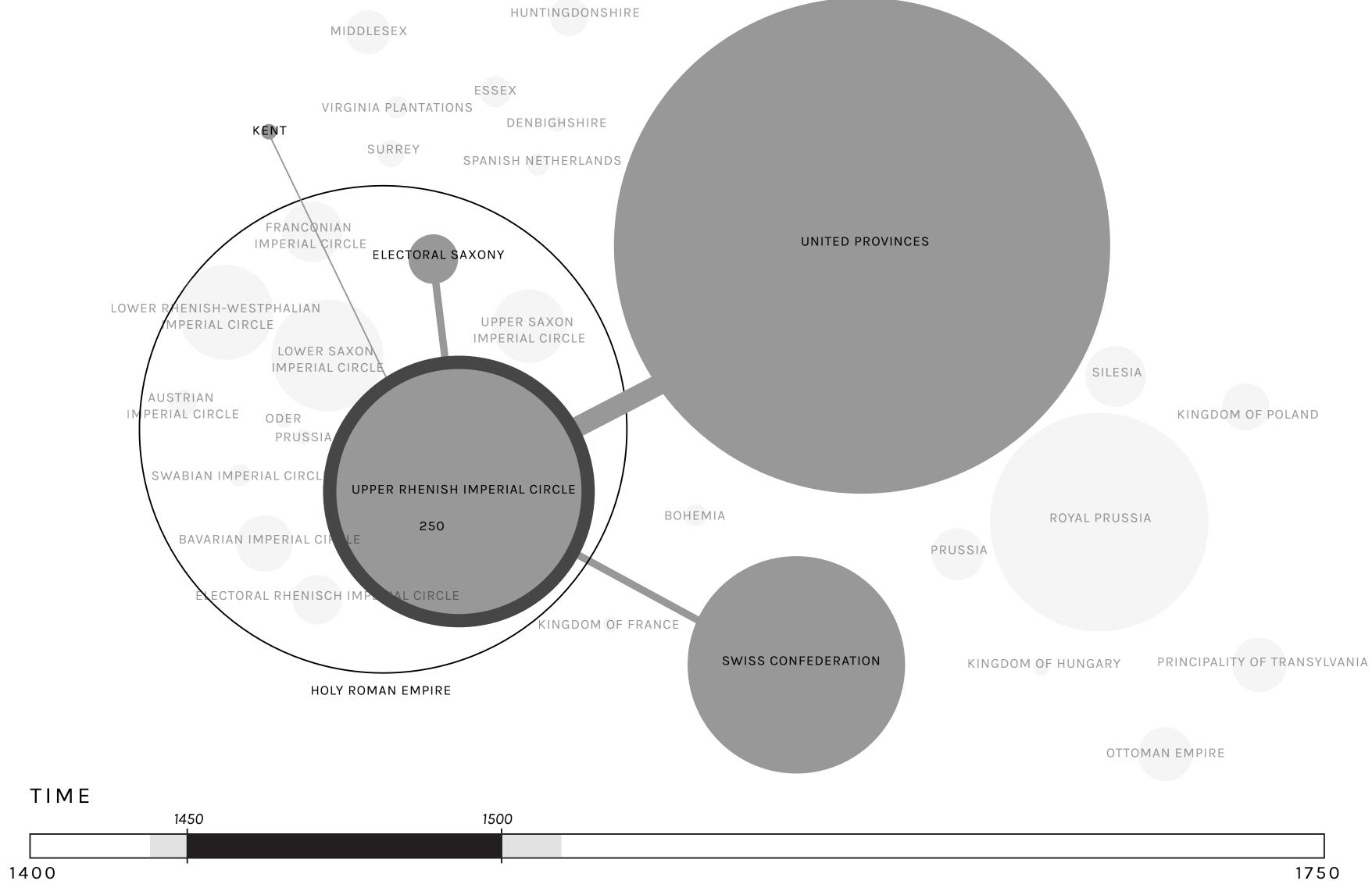
Source: mockup from a Design Sprint in the COST Action "Reassembling the Republic of Letters"



geography people languages

#### show letters from upper rhenish imperial circle to all

CONTEMPORARY HISTORICAL



Source: mockup from a Design Sprint in the COST Action "Reassembling the Republic of Letters"

## Temporal data

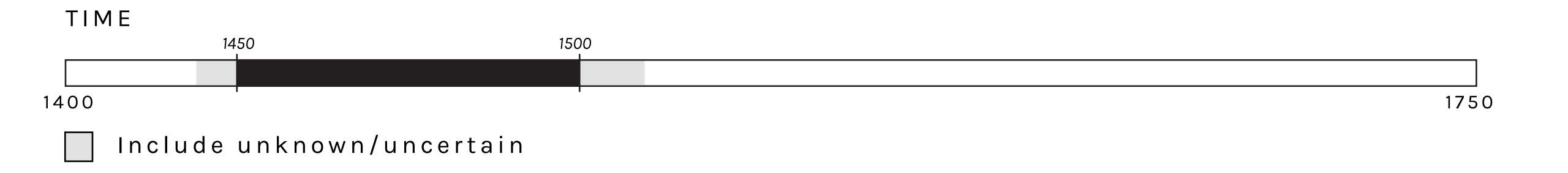
Dates uncertain or vague

Dates missing

Dates inferred

Co-existence of three calendars

## Timeline with degrees of fuzziness

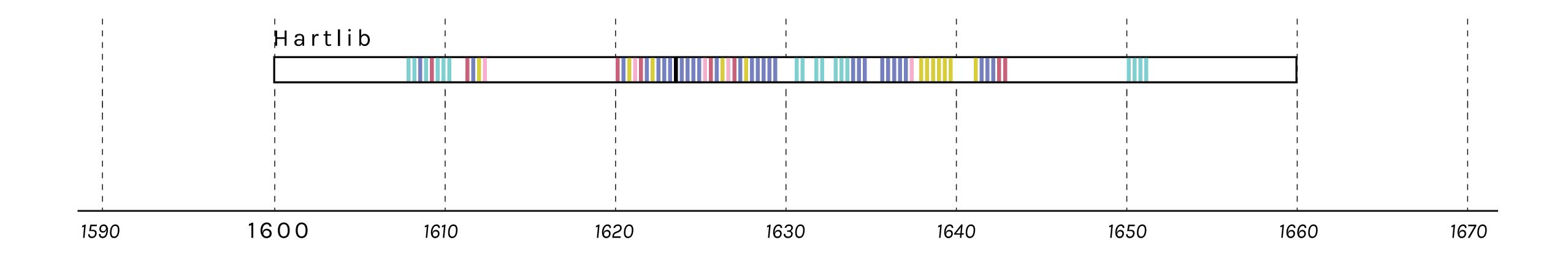


Include date ranges that can be inferred together with their probability Different levels of likelihood when drilling down to a more detailed view

## Data on people's lives and activities

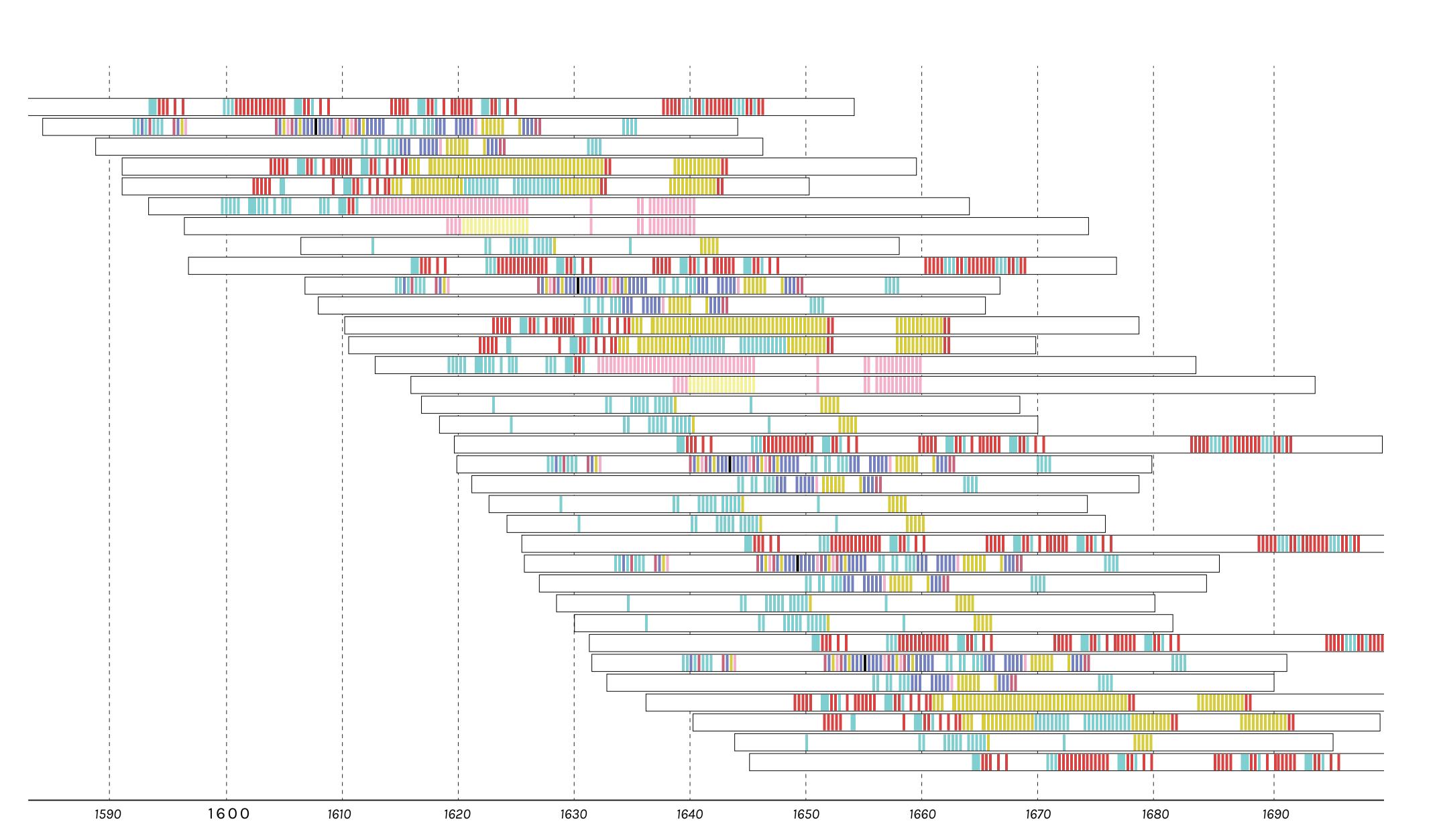
Multidimensional data
Overviews vs drill-downs

## Gantt-like charts and dispersion plots

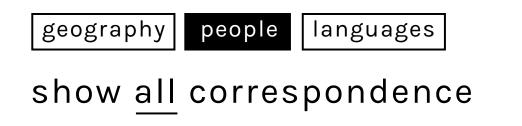


Color coding: main topic, main language, ...

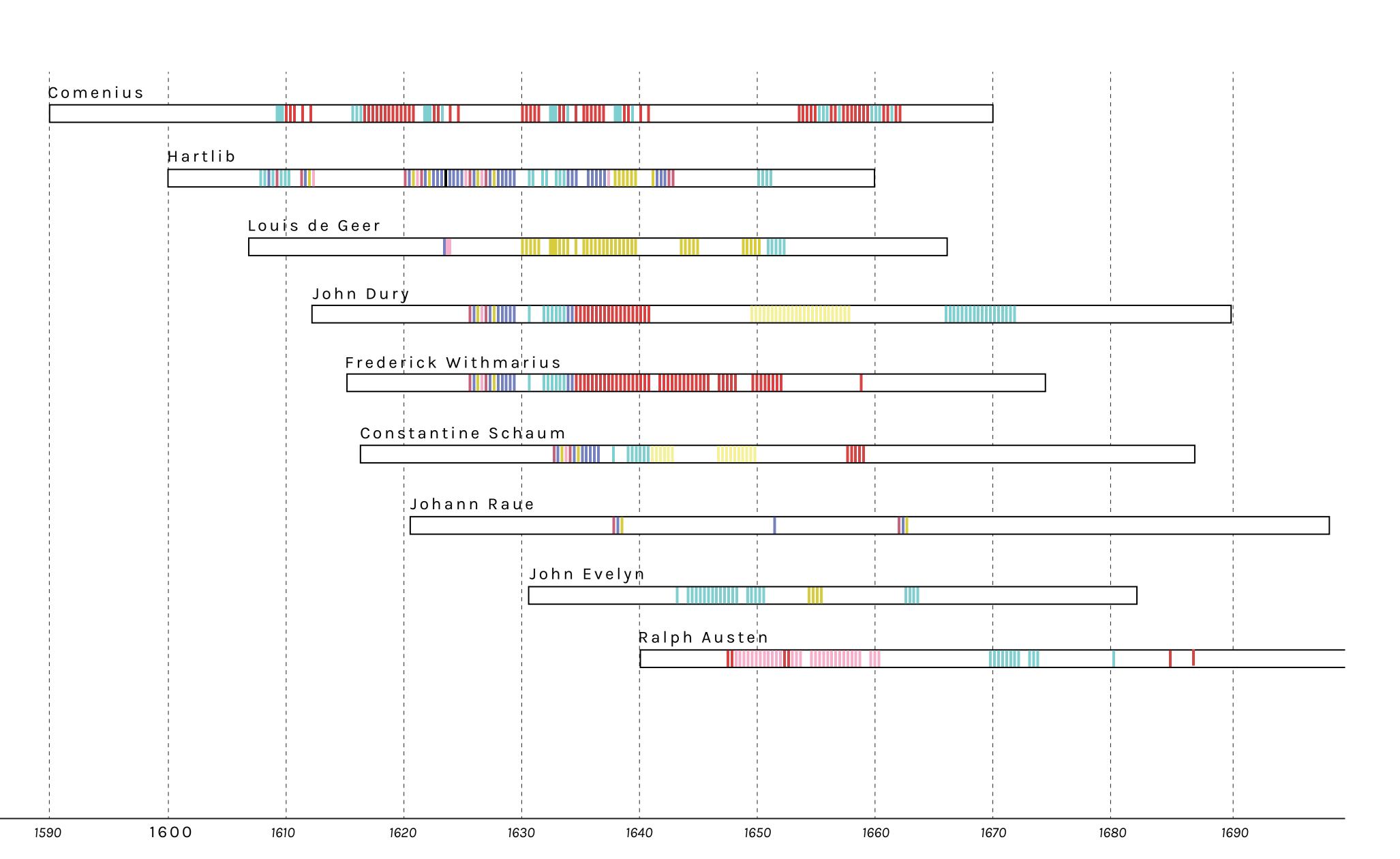




Source: mockup from a Design Sprint in the COST Action "Reassembling the Republic of Letters"

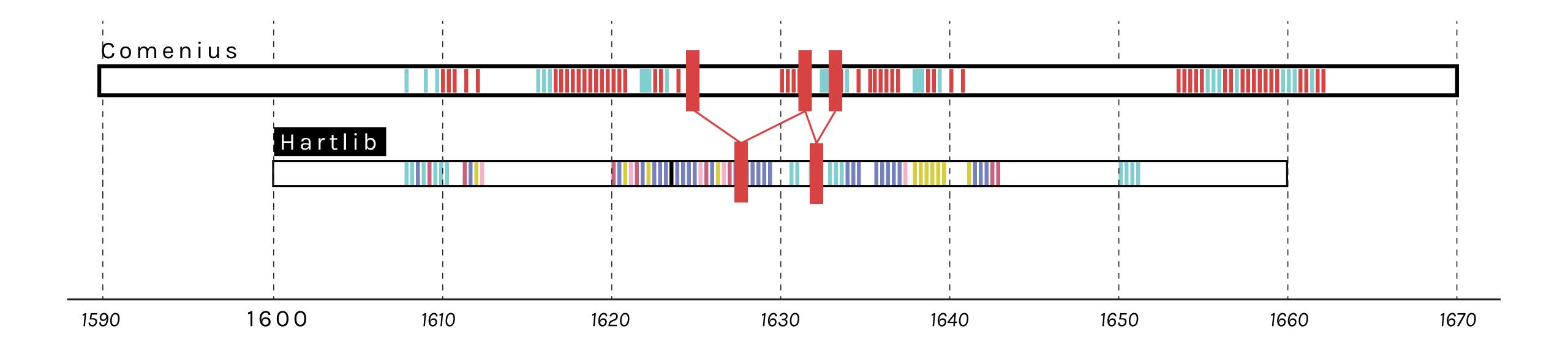






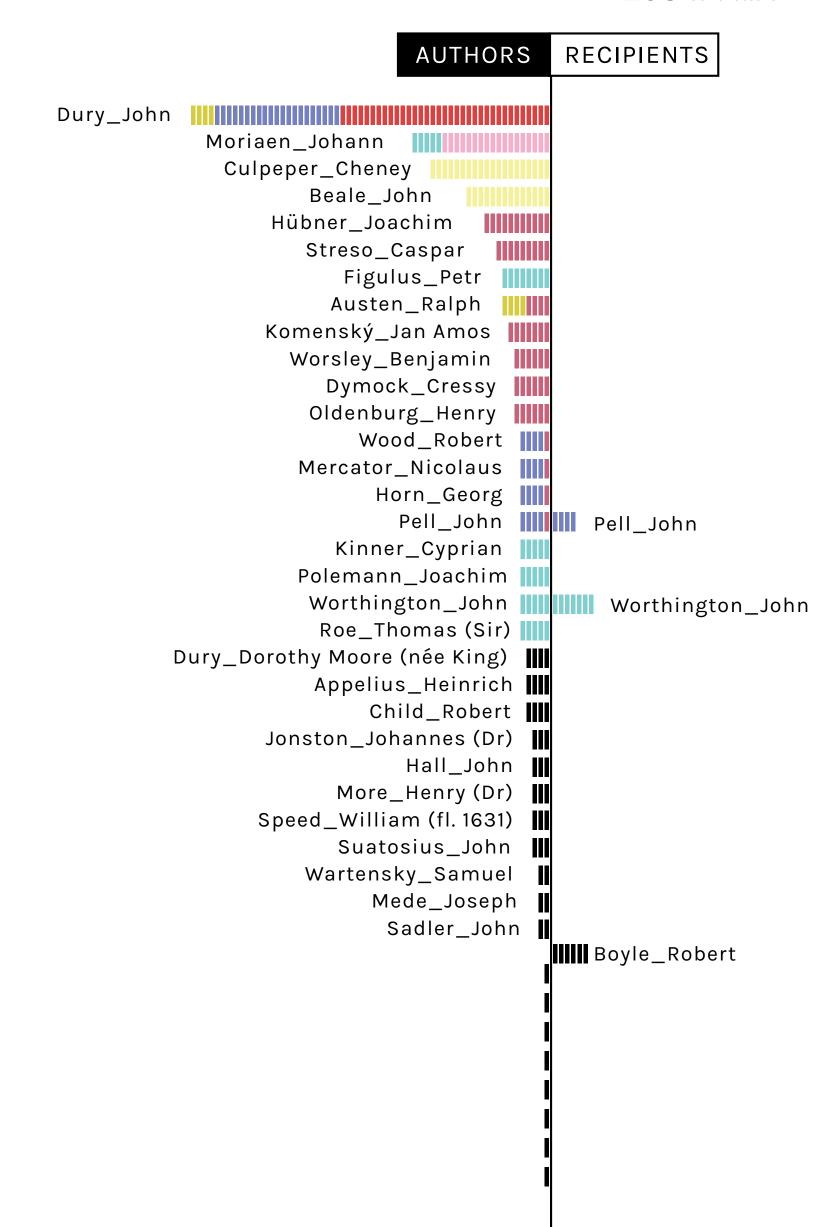
Source: mockup from a Design Sprint in the COST Action "Reassembling the Republic of Letters"

### Conversation threads



#### Hartlib

3.090 received letters \_\_\_\_\_ 258 sent letters



# Individual activity and reciprocity of exchange

Source: mockup from a Design Sprint in the COST Action "Reassembling the Republic of Letters"



## MODERN LIBRARY









SHAKESPEARE COLLECTORS LIBRARY TOP 100 READING GUIDES EDUCATION RESOURCES ABOUT

#### **100** Best Novels

Top 100

100 Best Novels

100 Best Nonfiction

Radcliffe's Rival 100 Best Novels List

#### THE BOARD'S LIST

#### ULYSSES

by James Joyce

#### THE GREAT GATSBY

by F. Scott Fitzgerald

#### A PORTRAIT OF THE ARTIST AS A YOUNG MAN

by James Joyce

#### LOLITA

by Vladimir Nabokov

#### **BRAVE NEW WORLD**

by Aldous Huxley

#### THE SOUND AND THE FURY

by William Faulkner

#### 7. CATCH-22

by Joseph Heller

#### 8. DARKNESS AT NOON

#### THE READER'S LIST

#### ATLAS SHRUGGED

by Ayn Rand

#### THE FOUNTAINHEAD

by Ayn Rand

#### **BATTLEFIELD EARTH**

by L. Ron Hubbard

#### THE LORD OF THE RINGS

by J.R.R. Tolkien

#### TO KILL A MOCKINGBIRD

by Harper Lee

#### 1984

by George Orwell

#### ANTHEM

by Ayn Rand

TAG Innovation School - all right reserved

#### WE THE LIVING

by Ayn Rand

#### SIGN-UP FOR OUR NEWSLETTER

Join our newsletter and receive updates on Modern Library releases right in your inbox.

SUBMIT

#### SEARCH THE SITE

SEARCH

#### SEARCH FOR A TITLE OR AUTHOR

SEARCH

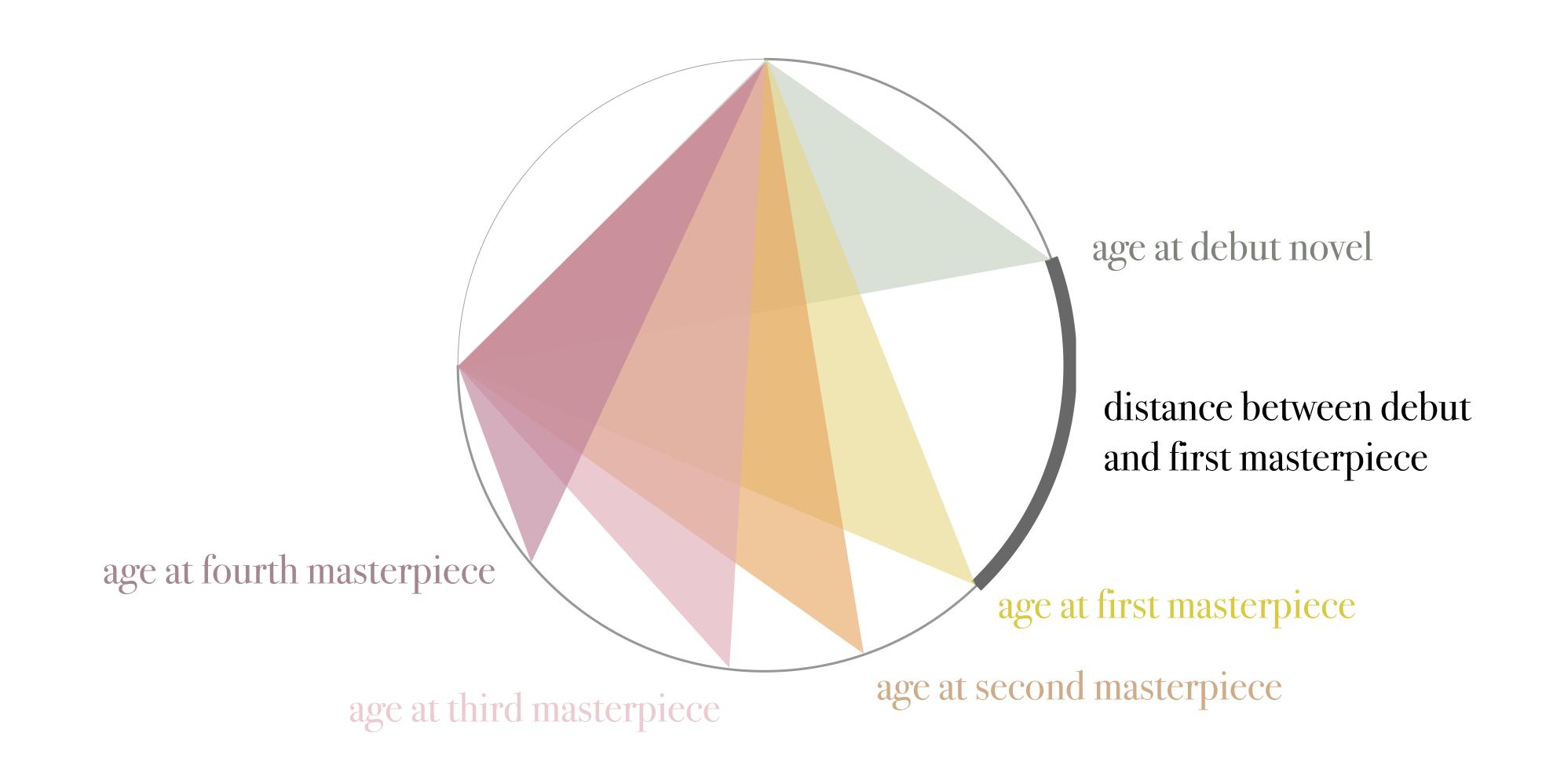
#### **OUR BESTSELLERS**

http://www.modernlibrary.com/

Source:





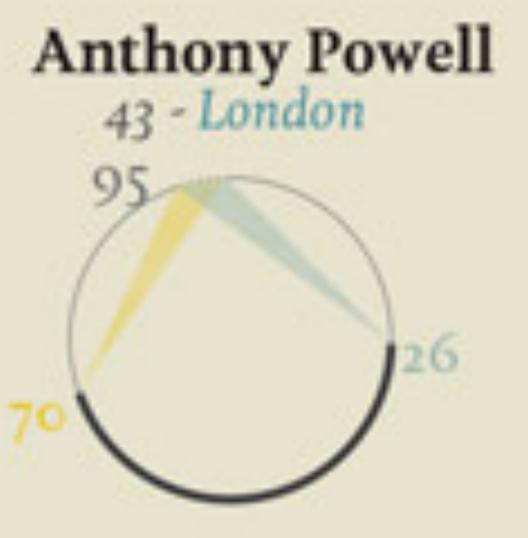


Jerome D. Salinger

64 -New York

91

32





Immediate and early success, small production

Late success, small production

Early success, high production

#### From first published to masterpieces

Visualized are the authors of the 100 best english novels of 1900 according to the Modern Library ranking. Authors are represented through circles showing their life span where their debut novel, their masterpiece(s) according to the raking are positioned. Authors' order points out the time-gap between the debut novel and the first published novel selected from the Modern Library ranking (masterpiece). Debut novel and first masterpiece correspond for the first 22 authors. Information about authors' hometown and novels' ranking are reported as well.

biography.com, britannica.com, modernlibrary.com

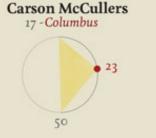
#### How to read it?

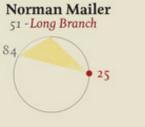
Authors are ordered from the earliest success to the last one.

Asia, North America Europe South America



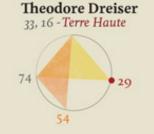


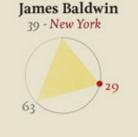


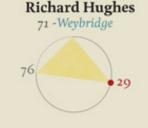


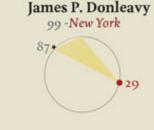


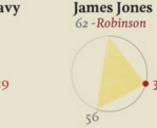








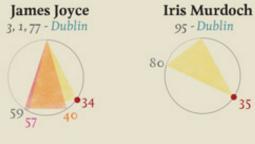


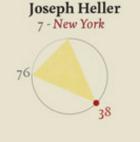






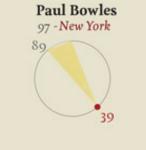
Jerome D. Salinger 64 -New York

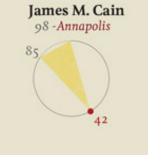


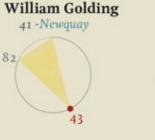










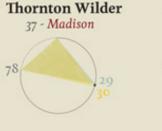




John Cheever 63 - Quincy



James Dickey





Dashiell Hammett 56 - Saint Mary's County

David H. Lawrence 9, 48, 49 Eastwood









James T. Farrell 29 -Chicago









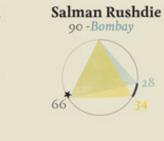






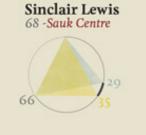




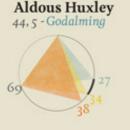


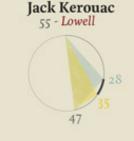
100 years birth

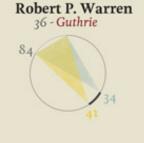
Author name

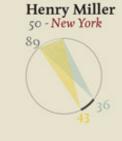




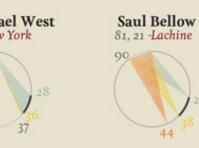










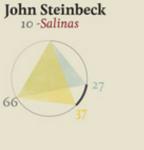


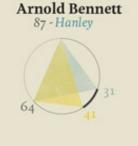


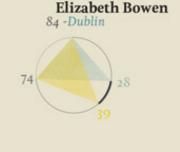


- first masterpiece coincide with debut

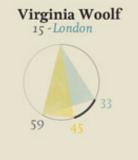






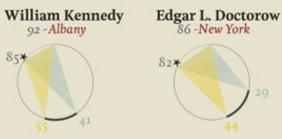


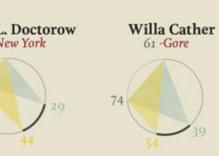




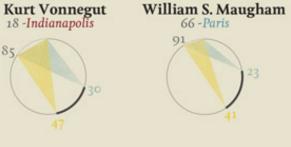




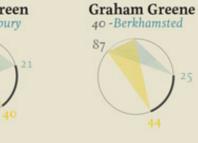




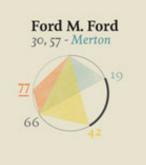
















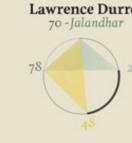


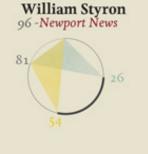












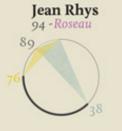




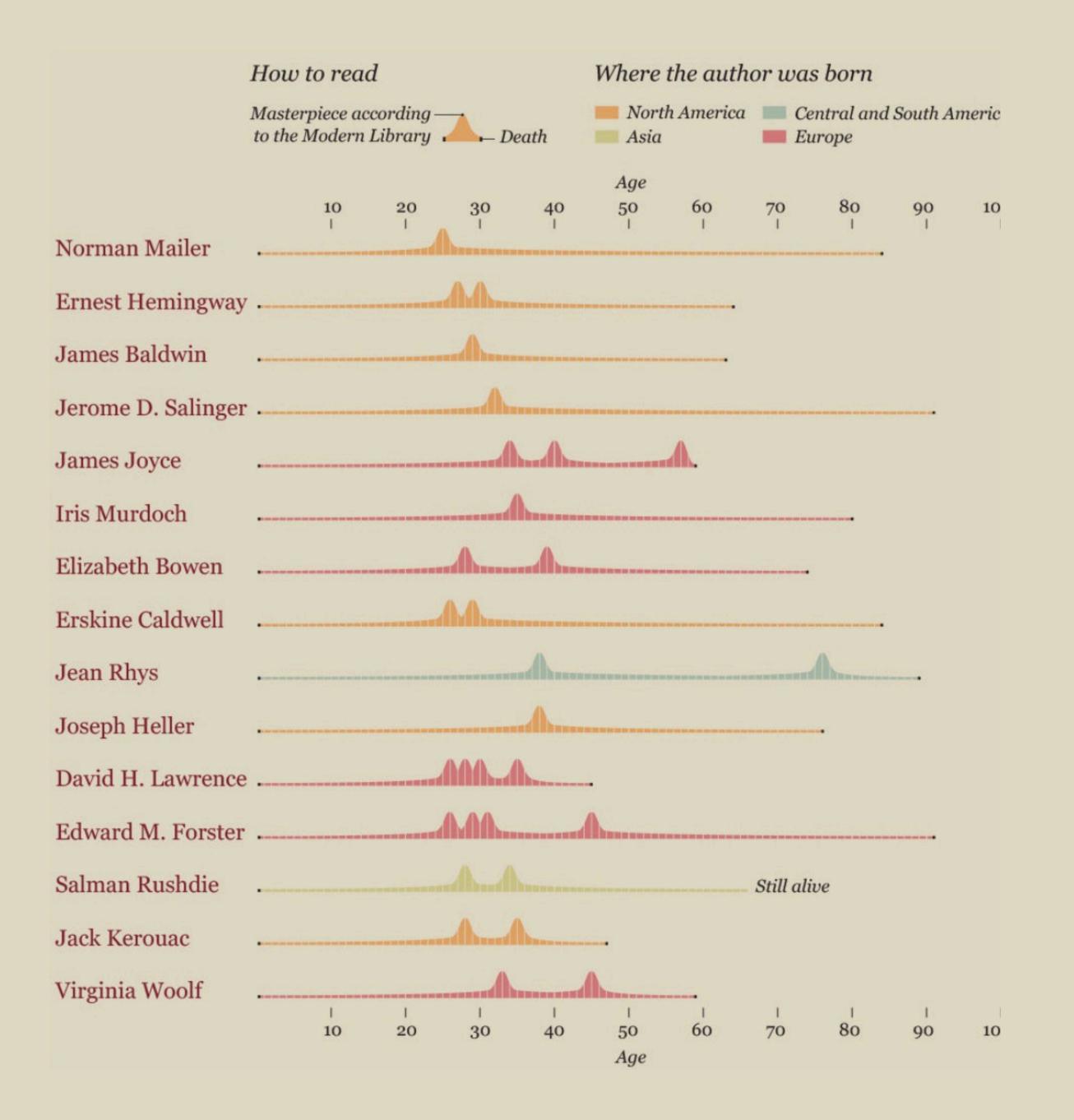




Wallace Stegner





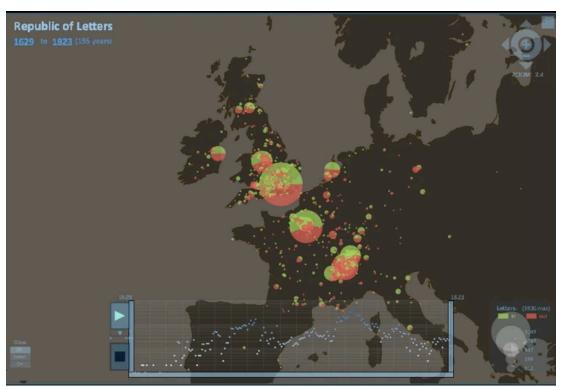


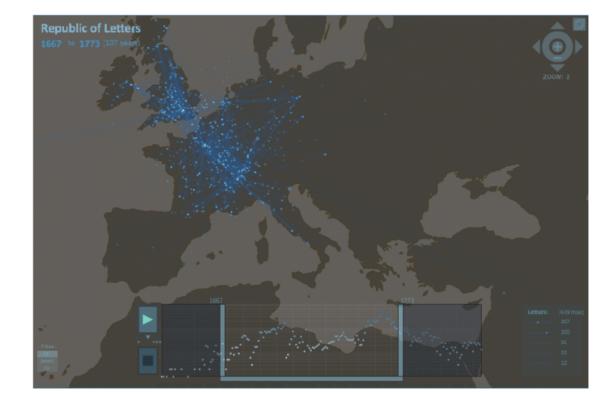
# Mapping the Republic of Letters

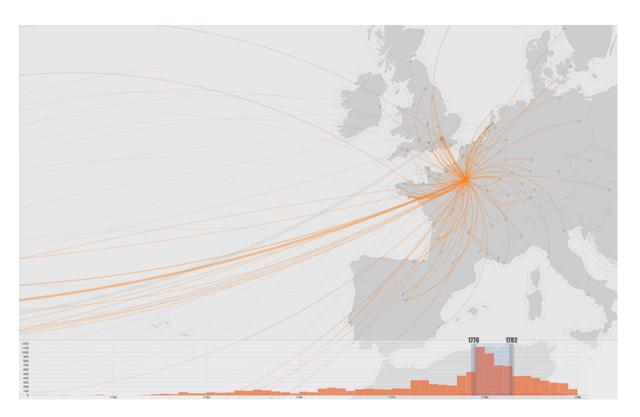
Navigating big data from the early modern period.

Source: http://republicofletters.stanford.edu/

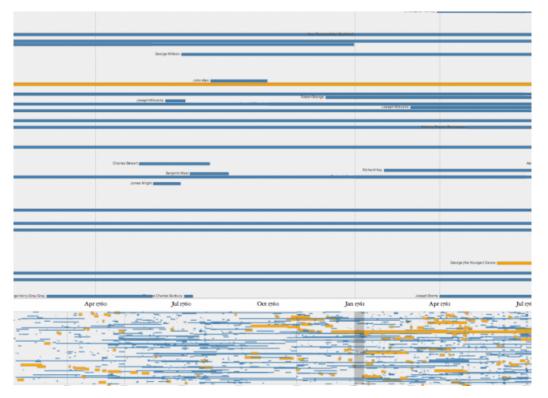


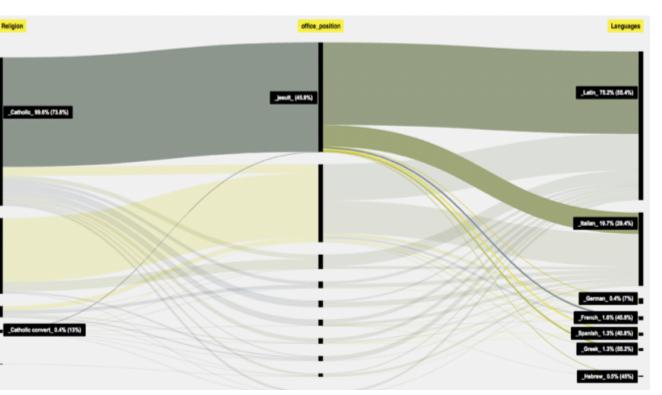




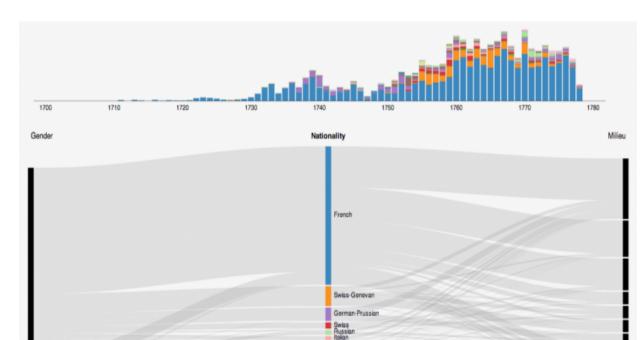


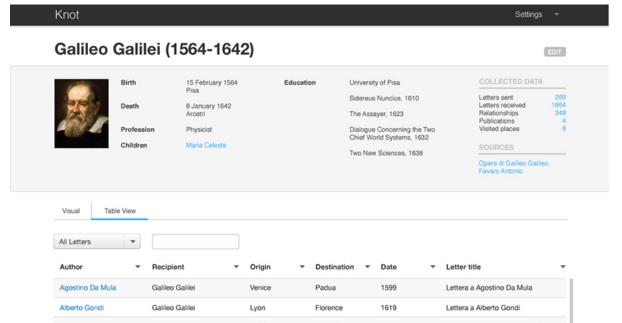


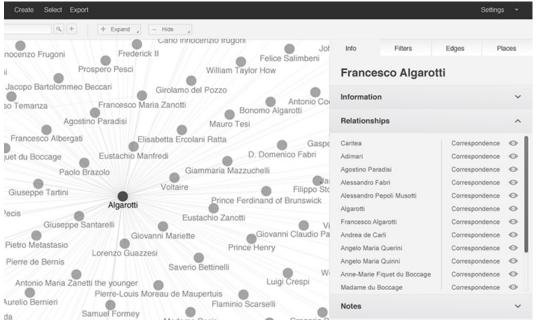


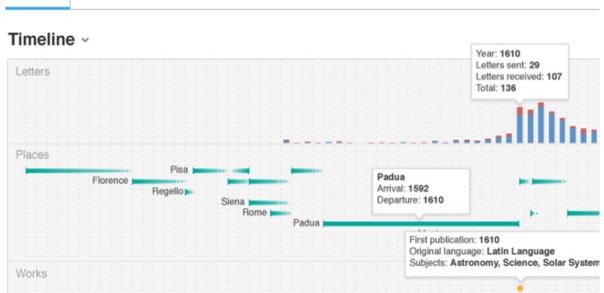




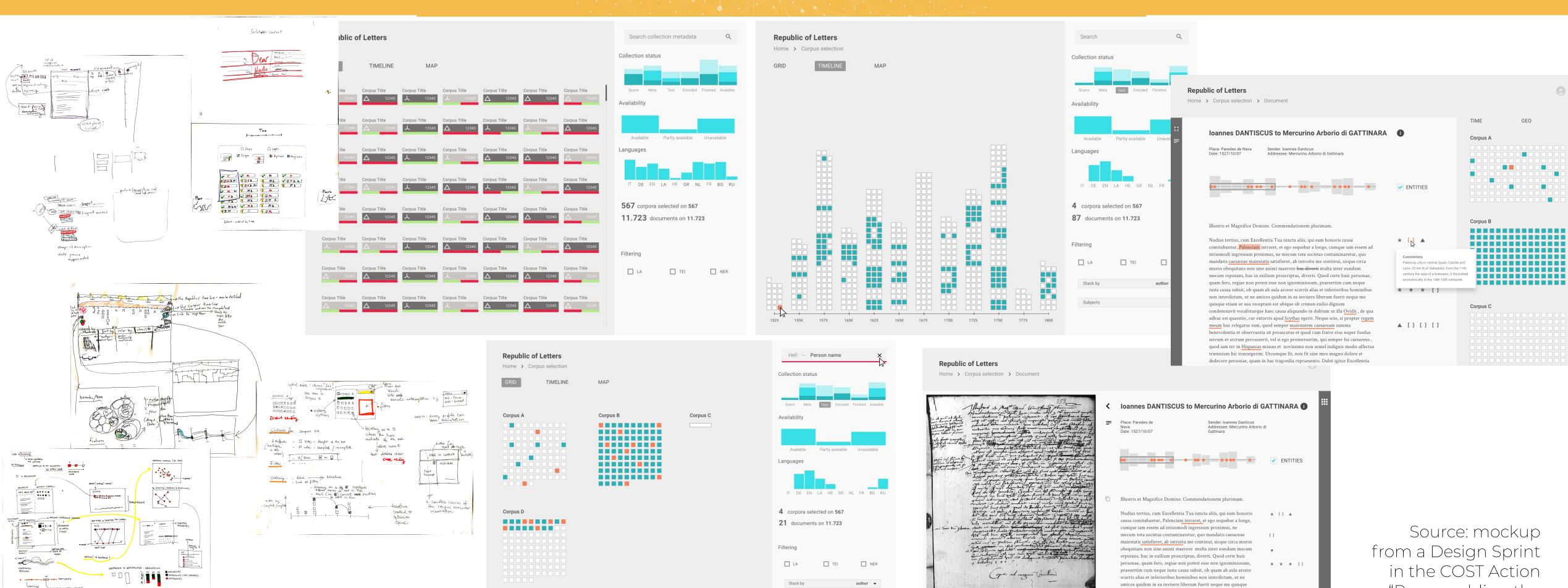








A digital framework for multi-lateral collaboration on Europe's intellectual history (1500-1800)



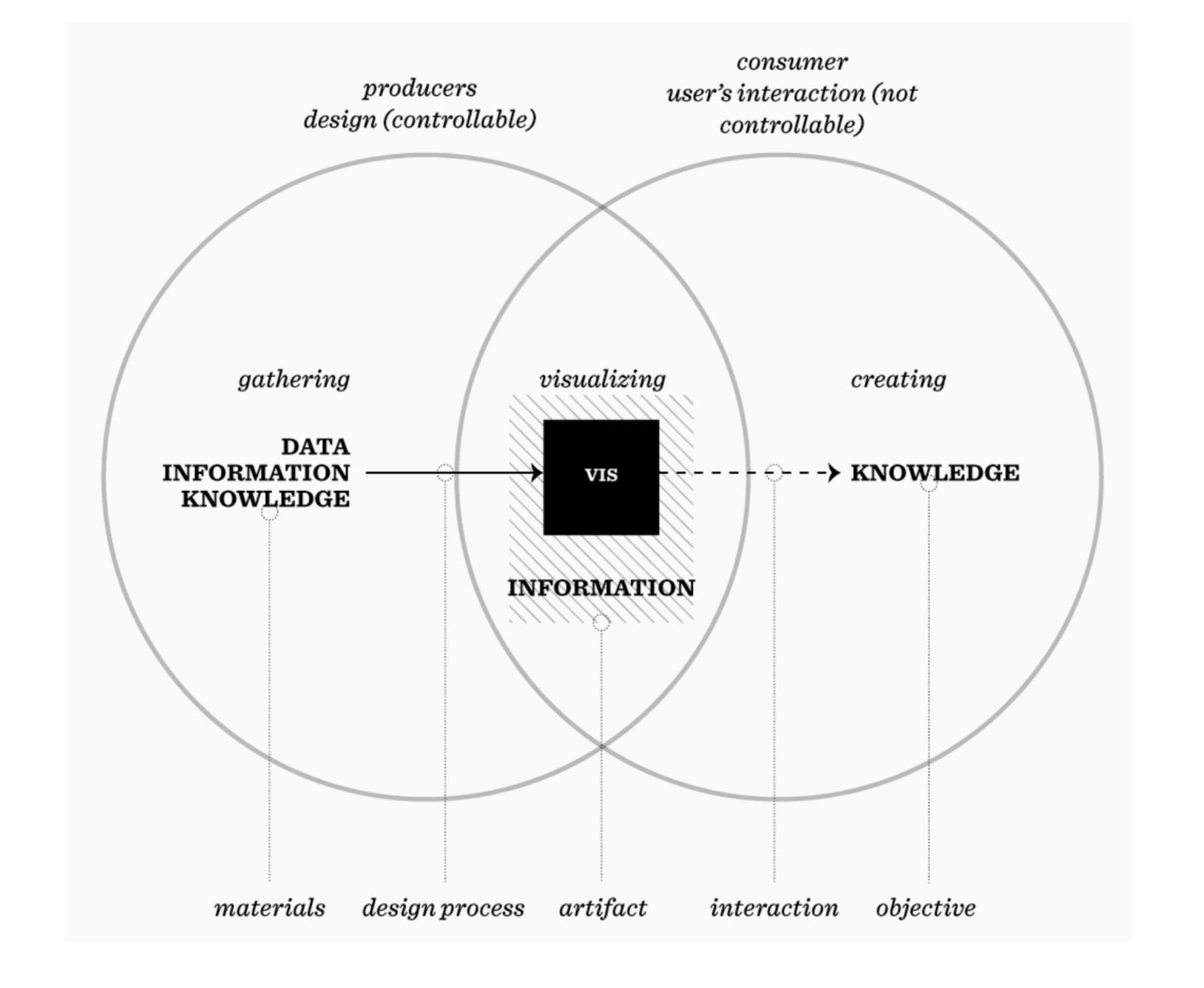
"Reassembling the Republic of Letters"

etiam ut usu receptum est ubique ob crimen exilio dignum

egerit. Neque scio, si propter regem meum huc relegatus sum, observantia sit prosecutus et quod cum fratre eius nuper foedus novum et arctum percuss<u>erit, vel si</u> ego promeruerim, qui

condemnavit vocabiturque haec causa aliquando in dubium ut illa Ovidii , de qua adhuc est quaestio, cur extorris apu<u>d Scyth</u>as

A [] [] []



# opportunities and challenges domain questions

## Glauco Mantegari

www.glaucomantegari.com