ABCDH
https://abcdh.eu/

Distant Reading in R

Teaser session

Simone Rebora & Giovanni Pietro Vitali
simone.rebora@univr.it giovannipietrovitali@gmail.com

OVERVIEW

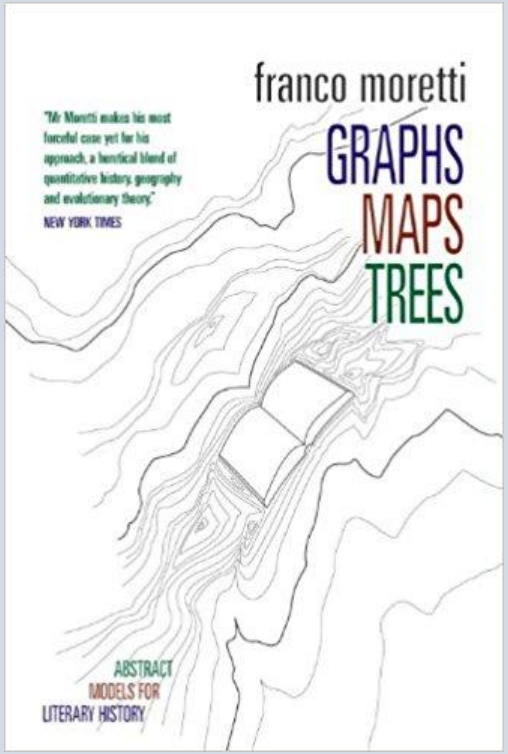
Two-week workshop: first week analysis (with Simone); second week visualization (with Giovanni)
An overview workshop: (almost) a new subject each day; a bit of theory, a lot of practice
With one constant: the R programming language
Reference point: https://github.com/ABC-DH/Distant_Reading_in_R

Simone's week

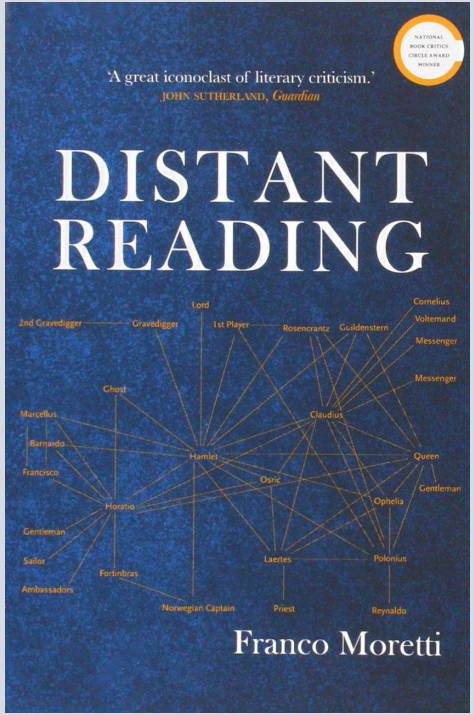
- Intro to R; NLP; Sentiment Analysis; Stylometry; Topic Modeling
- A bit of theory, a lot of practice

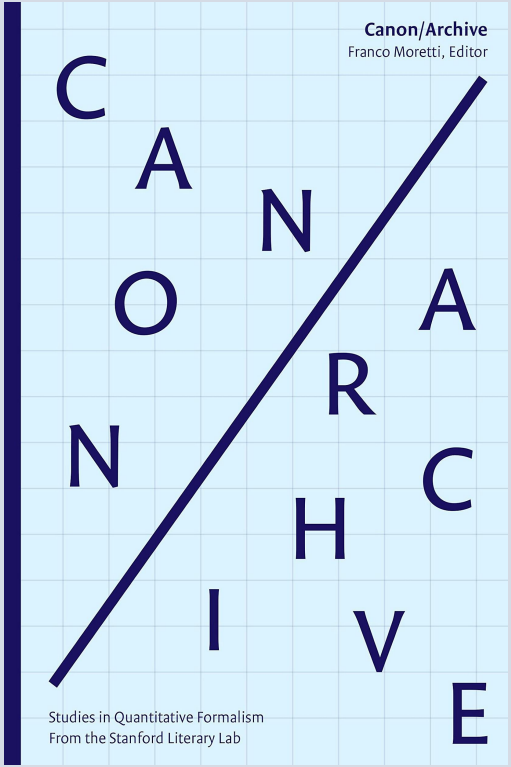
Giovanni's week

- Data Visualization in R; Gephi & Inkscape; Network analysis; Mapping



DISTANT READING





"Instead of reading texts in the traditional way – so-called close reading –, he invites to count, to graph and to map or, in other words, to visualize them" **(Jänicke et al., 2015)**

Distant Reading in R

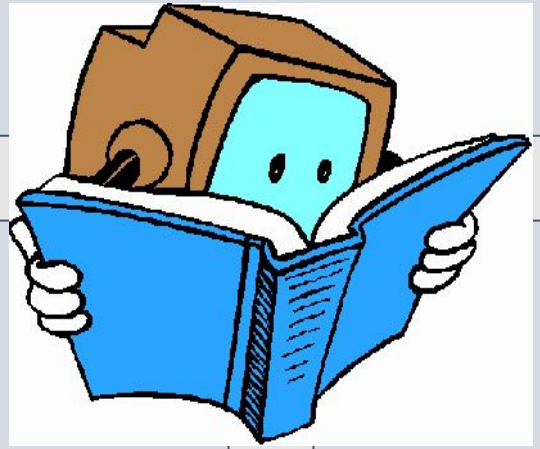
CRITICAL ASPECTS

The Computational Case against Computational Literary Studies

Nan Z. Da

Critical Inquiry 45 (Spring 2019)

NATURAL LANGUAGE PROCESSING (NLP)



Sentiment Analysis

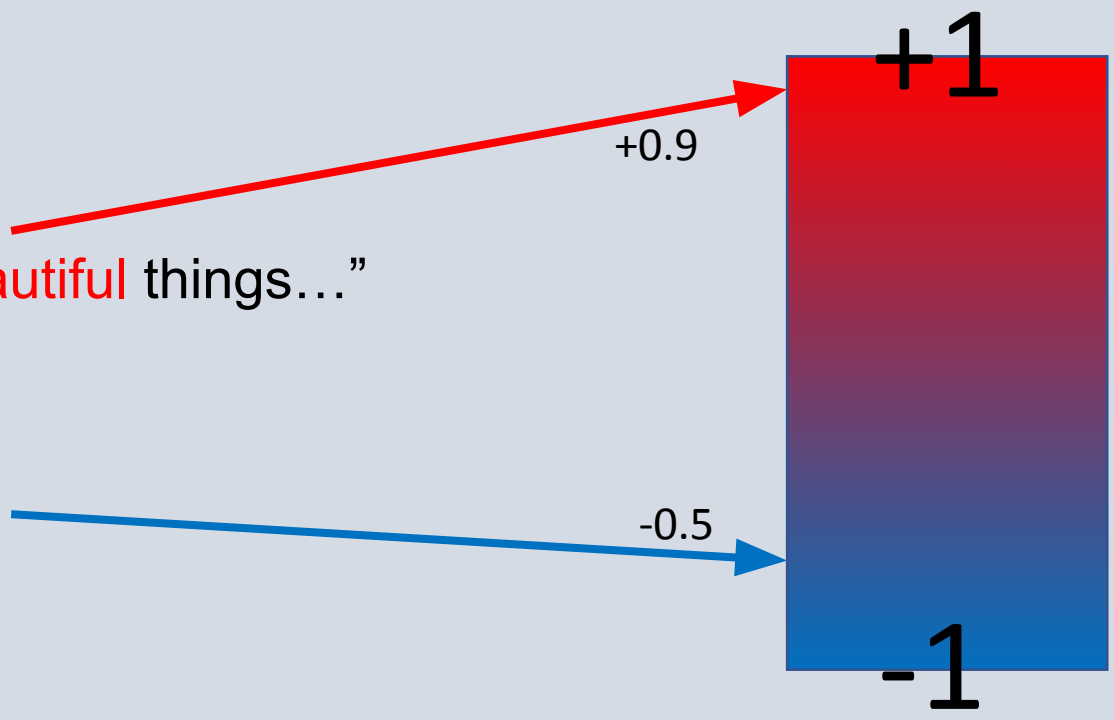
Topic Modeling

Stylometry

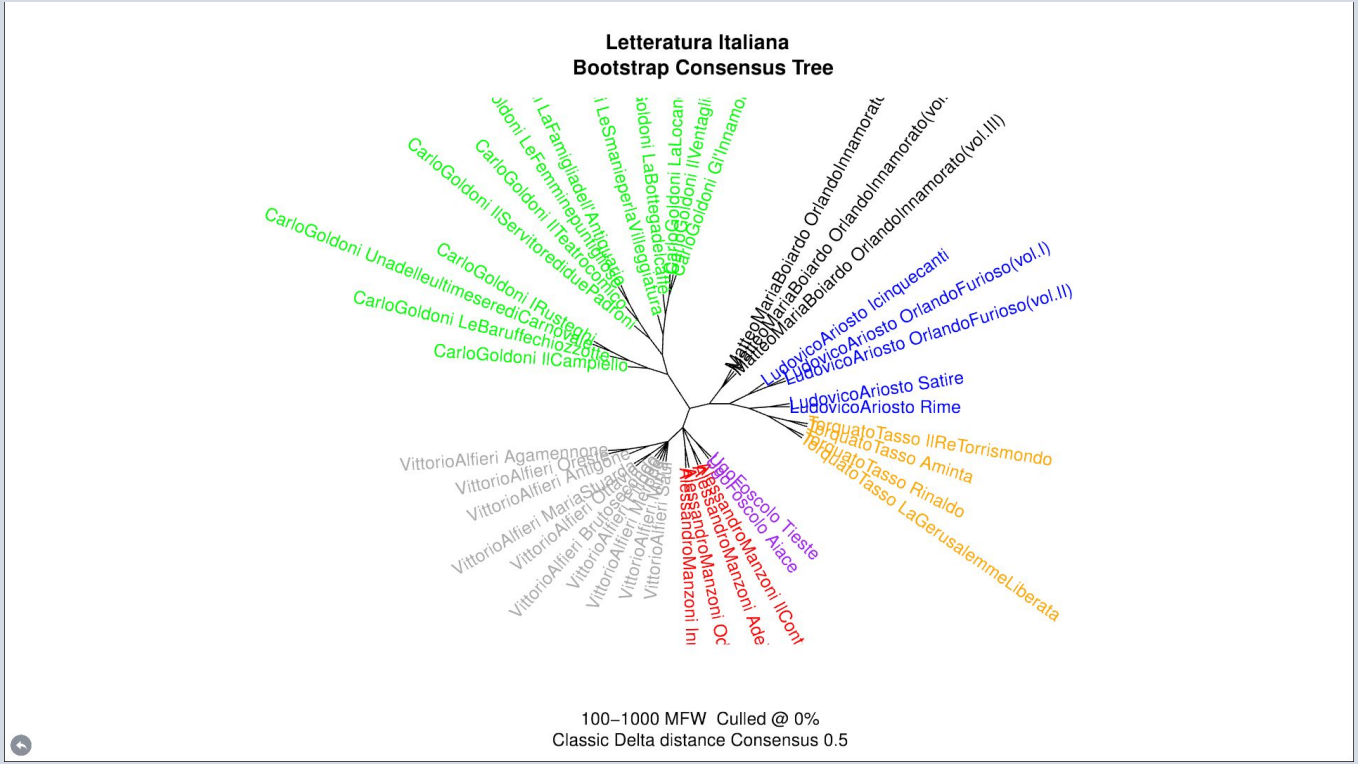
SENTIMENT ANALYSIS

“This book is fantastic!
It tells wonderful and beautiful things…”

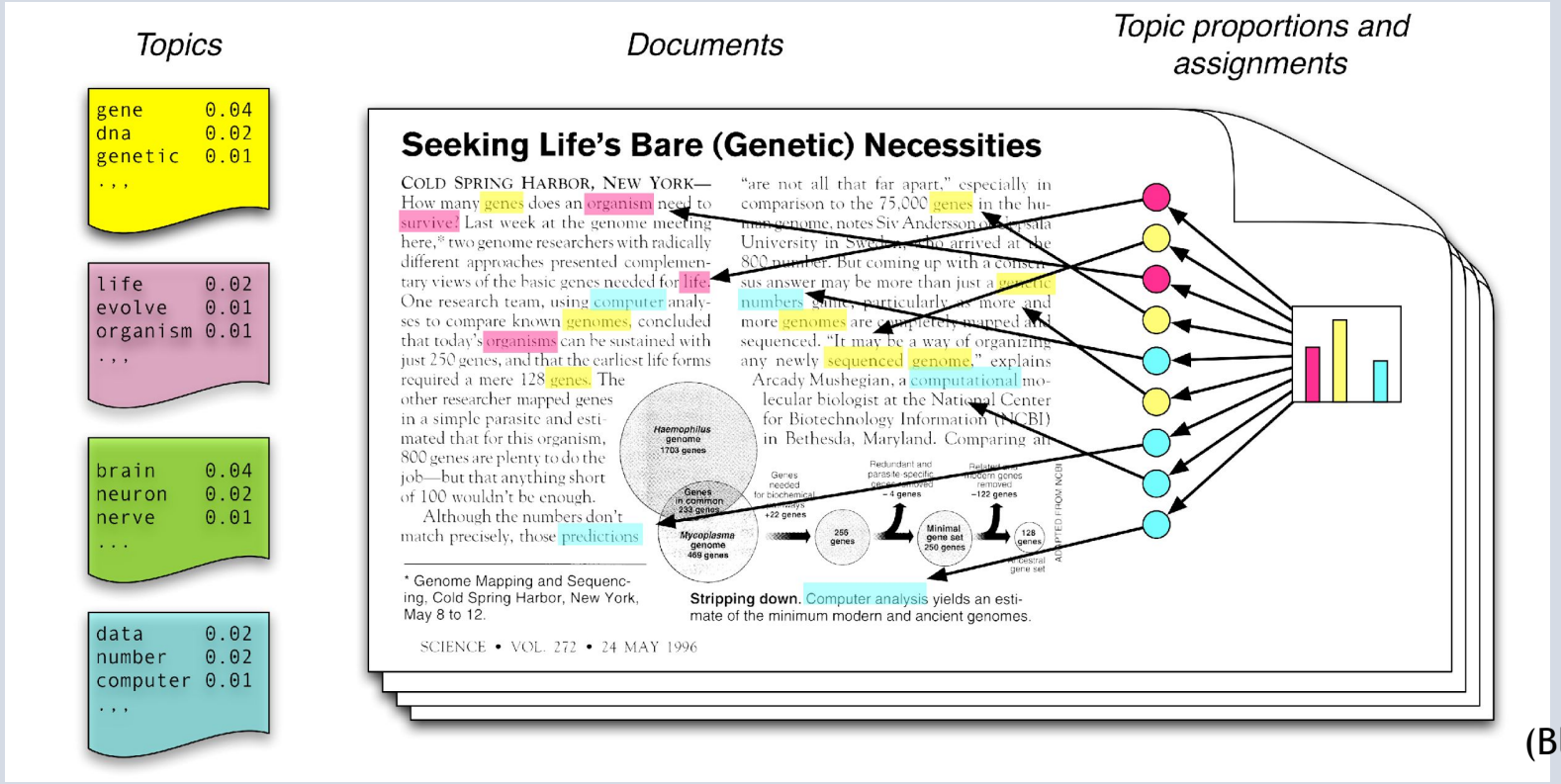
“In those days, sadness
shadowed my heart”



STYLOMETRY


Letteratura Italiana
Bootstrap Consensus Tree
CarloGoldoni LaFamigliadell'Antiquario
CarloGoldoni LeFemminepuntigliose
CarloGoldoni IlTeatrocomico
CarloGoldoni IlServitoreediduePadroni
CarloGoldoni LeSmanieperlaVilleggiatura
CarloGoldoni LaBottegadelCaffè
CarloGoldoni LaLocan
CarloGoldoni IlVentaglio
CarloGoldoni GliInnamo
CarloGoldoni Unadelleultimeseredi
CarloGoldoni IRusteghi
CarloGoldoni LeBaruffechiozzotte
CarloGoldoni IlCampiello
MatteoMariaBoiardo OrlandoInnamorat
MatteoMariaBoiardo OrlandoInnamorato(vol.
MatteoMariaBoiardo OrlandoInnamorato(vol.III)
LudovicoAriosto Icinquecanti
LudovicoAriosto OrlandoFurioso(vol.I)
LudovicoAriosto OrlandoFurioso(vol.II)
LudovicoAriosto Satire
LudovicoAriosto Rime
TorquatoTasso IlReTorrismondo
TorquatoTasso Aminta
TorquatoTasso Rinaldo
TorquatoTasso LaGerusalemmeLiberata
VittorioAlfieri Agamennone
VittorioAlfieri Oreste
VittorioAlfieri Antigone
VittorioAlfieri MariaStuarda
VittorioAlfieri Ottavia
VittorioAlfieri Bruto
VittorioAlfieri Saul
UgoFoscolo Tieste
UgoFoscolo Aiace
AlessandroManzoni IlCont
AlessandroManzoni Ade
AlessandroManzoni Oc
AlessandroManzoni Ini
100–1000 MFW Culled @ 0%
Classic Delta distance Consensus 0.5

TOPIC MODELING



(Blei, 2012)

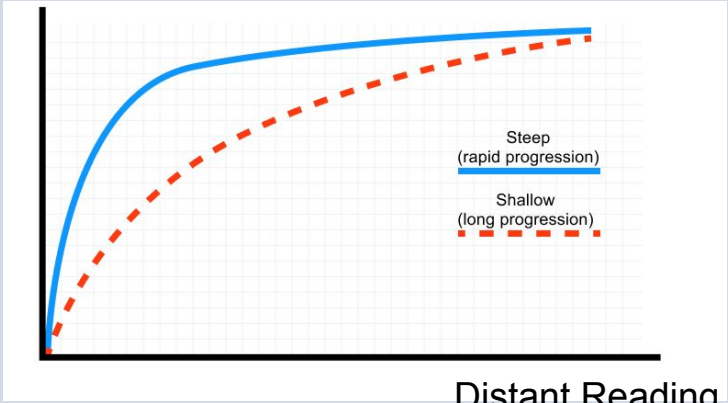
WHY R?

PROS:

- a single tool for many different tasks
- a tool that can be adapted for doing (almost) everything you can think of
- a tool supported by a wide community of researchers and developers

CONS:

- the “steep learning curve” of programming languages



RSTUDIO CLOUD

Instructions:

1. Connect to https://rstudio.cloud/
2. Create a new account (Cloud Free Plan; Sign Up with Google)
3. Create a new project from Git Repository
4. Copy-paste the link: https://github.com/ABC-DH/Distant_Reading_in_R.git
5. Click on OK!