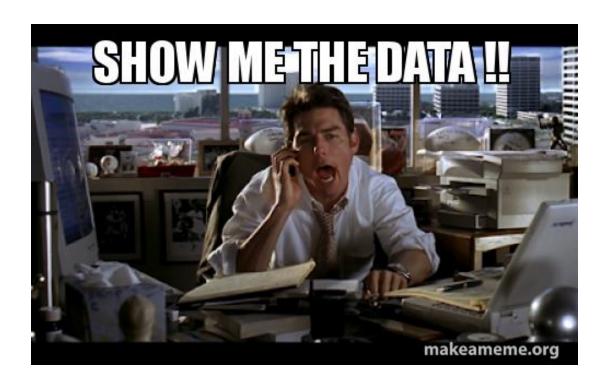
# The datasets



#### The datasets

- 10+ sets for the entire course (and the exam!)
- (And the text book's data as "gries\_data")
- Real-world data from research in the Humanities
- Mostly "small", but hopefully both relevant, diverse and exciting
- Many of them collected and analysed at our university!
- They'll come back around: gradually more complex analyses

### Datasets folder

Subfolder per dataset, containing:

- Dataset itself as a table (.csv, .xsl, .tsv, .xlsx, ...)
- "README": detailed plain-text description of the dataset's contents, variables and variable levels, publications based on the data, ...
  - → Familiarize yourself with some of the datasets through the homework exercises

### **Datasets: Overview**

- 1. Arthur
- 2. Chat
- 3. Chat\_repeated
- 4. Correlaciones
- 5. Fanfiction
- 6. Federalist
- 7. Queer
- 8. Social
- 9. Spelling
- 10. (Gries's data)
- 11. And more

### 1. Arthur

- Origin: <a href="http://www.arthurianfiction.org/">http://www.arthurianfiction.org/</a>
- Database of medieval works from Arthurian narratives and the **books** (manuscripts) in which they survive
  - Multiple regions/languages from medieval Europe
  - Detailed information on dimensions of the books:
    - How large (page and text area)?
    - How many illustrations, columns, pages?
    - Paper or parchment?
    - Date (approximation)?
    - From which region do they originate?



BL, Additional 10292, f. 100

### 2. Chat

- Sociolinguistic dataset
- Collected and analyzed at CLiPS (Hilte, Vandekerckhove, Daelemans)
- Summary of Flemish teenagers' chat conversations (WhatsApp, Facebook):
  - Socio-demographic info: the teenagers' "profile"
    - Gender, educational track
  - Linguistic info: number of chatspeak features in the text
    - Emoticons, non-standard Dutch words

## 2. Chat

nr_tokens	subject_ID	gender	education	emoticons	nonstd_Dutch
1487	1	male	general	49	292
1859	2	male	technical	49	298
178	3	male	general	0	32
258	4	female	general	0	53
48	5	male	vocational	0	3
314	6	female	vocational	1	43

## 3. Chat\_repeated

- Sociolinguistic dataset, larger version of "Chat"
- Collected and analyzed at CLiPS (Hilte, Vandekerckhove, Daelemans)
- Summary of Flemish teenagers' chat conversations (WhatsApp, Facebook):
  - Socio-demographic info: the teenagers' "profile"
    - Gender, educational track, age category
  - Linguistic info: number of chatspeak features in the data
    - Emoticons, non-standard Dutch words

**ADDITION**: contains "repeated measurements" (= multiple observations for 1 subject - see later)

## 3. Chat\_repeated

nr_tokens	subject_ID	gender	education	age_cat	emoticons	nonstd_Dutch
502	1499	female	vocational	young_teen	50	92
1470	2211	female	vocational	young_teen	2855	492
1536	website 658	male	vocational	young_teen	231	222
676	123	male	vocational	young_teen	0	124
5494	1327	male	general	young_teen	365	827
219	website 689	male	vocational	young_teen	2	11

### 4. Correlaciones

- Dataset with metadata on well-known Spanish
   Literature form the Silver Age
- Collected by Dr. José Calvo Tello (morethanbooks.eu) for PhD
- Information on authors:
  - Life span
  - Gender
  - How many works/novels published
  - Etc.
- Information on works:
  - When published?
  - How long is the story (in days)?
  - How "canonical" is it?
  - Etc.



Figure 12: Number of texts over decades differentiating genres

"The Novel in the Spanish Silver Age: A Digital Analysis of Genre through Machine Learning" [2020]

### 5. Fanfiction

- "Fan fiction" or "transformative literature"
- Fiction by non-professional authors inspired by cultural "fandoms", such as J.K. Rowling or Sherlock Holmes
- Huge (!) and global phenomenon
- Dataset with (user-provided) metadata on "fics"
  - Intended audience?
  - When published/finalized?
  - Which fandom?
  - Which characters?
  - How many "likes" and "views"?
- (Warning: often "explicit" in nature...)

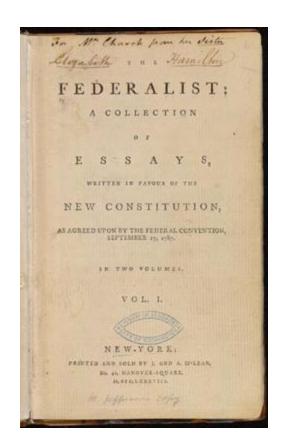




Because the story's not over until we say it is.

### 6. Federalist

- Federalist papers: collection of papers (ca. 1788)
- Promoting the ratification of US constitution
- Very famous in US history, but anonymous
- All published under pseudonym "Publius"
- Famous candidates: Hamilton? Jay? Madison?
- "Bag-of-words" table with word frequencies in each essay
  - Each row = essay
  - Each column = word
  - Each cell = absolute frequency of word in text
- Statistical authorship attribution



### 7. Queer

- Famous question from sociophonetics (mentioned in Gries)
- "Is there a difference in **pitch** between speech homosexual/heterosexual men?"
- Dataset from recent paper (Suire et al. 2020)
- Various pitch measurements and sociological variables for set of Spanish speakers

Archives of Serval Behavior (2520) 49/2575-2585 https://doi.org/10.1007/s1008-020-01666-2

#### ORIGINAL PAPER



#### Speech Acoustic Features: A Comparison of Gay Men, Heterosexual Men, and Heterosexual Women

Alexandre Suire\* - Arnaud Tognetts\* 30 - Valèrie Durand\* - Michel Raymond\* - Melissa Barkat Defradas\*

Received: 7 September 2018 / Revised: 14 February 2020 / Accepted: 18 Retinuery 2020 / Published unline: 31 March 2020 in The Australia (2020)

#### Abstract

Patential differences between homeostead and heterostead men have been stadied on a diverse set of social and histogradure. Regarding posted features of speech, securatively have have been for histogradure of features and enable them to produce the features of stadies show the produced in the size of stadies that one been conducted with English speaking populations, which only for brailer covers languaging examinations. Leath, an attode in exclusion whereas examine constitution and speech account features. To fill these parts we applied postential differences in accounts features of speech between homeostead and heteroseval anti-Protech time and investigated where the finence beard a model toward distintation by comparing theirs to that of between the moment and are of the investigated where the finence beard a model toward distintation by comparing theirs to that of between the moment of investigation of the stadied four securities where the situation of the stadies of the stadies

Repwords Speech Voice Acoustics Sexual orientation Testinarrone levels Gender atopicality

#### Introduction

The grands onlysically hypothesis suggests that grade anysical tribinal tests in formore-stands could be used in cure to indicate sexual orientation. Differences between both the size of size and observations. Differences between both and developes and observation and orientation and observation and orientation which have first been to statistical or a discourse set of train-such as face in g., Pittorian, Johnson, Ambudy, & Bade, 2010. Gensalize-Abrury, 2011-1, [cons. 1, polys, Borwar, & Badely, 2010. Sharika, Caminda, Viyyon, McCormin, & Badely, 2010. Sharika, Caminda, Viyyon, McCormin, & Badely, 2010.

- Armed Triplets arread report Williams com-
- CNRS, JRD, EPHE, Institut des Sciences de l'Evolution. University of Montachine Montachine Prante
- Santinia Sir Advanced Study in Ecolomic 23 Africa de Brisma, 20015 Sentence, Prance
- Department of Clinical Noorousteen, Karolinska Institute, Straitbeller, Sanden

Wang & Keninski, 2011), obliction in g., Sergrant, Dickins, Davies, & Griffiths, 2007), behavior to g., Ambudy, Hallahan, & Conner, 1989; Rieger, Limenmeter, Gygan, & Balley, 2008; Valentova, Riegor, Havlicek, Limenmeier, & Bailey, 2011). cognition to g., Neave, Monagod, & Wrightman, 1999; Xu. Norton, & Rahman, 2007), and voice (e.g., Gaudio, 1994; Mussen, McDonald, Delloe, & White, 2000; Pierrebumbert, Bent, Mussin, Bradiew, & Builey, 2004; Rosslatt, Vasey. A McKenzie, 2000). In addition to the fact that homosexuals. exhibit traits that differ from those of beterourceals, it has been shows that some of them, such as specific neural processes (LeVay, 1995; Sanic, Bergland, & Lindstrom, 2005) or specific childhood behaviors (Alanke et al., 2000; Bailey & Zucker, 1995), displayed values shifted toward those of the opposite sex, i.e., a feminization in homosexual men and a munculinization in homosexual women (Psendumber) et al., 2004). Moreover, studies have shown that both men and women are able to accurately assess sexual orientation from both sexes from various features such as the face or body movements (Ambady



### 8. Social

- Sociological dataset
- Collected and analyzed at CLiPS (Hilte, Vandekerckhove, Daelemans)
- Flemish teenagers' socio-demographic and social class profiles
  - Gender
  - Educational track in secondary school
  - Parents' socio-economic class
  - Home language

## 8. Social

subject_ID	gender	education	language	parents_class
1	female	technical	Dutch_only	1
2	male	general	Dutch_only	1
3	female	general	Dutch_only	1
4	female	general	Dutch_only	1
5	female	technical	Dutch_only	1
6	male	vocational	Dutch_only	1

## 9. Spelling

- Sociolinguistic and psycholinguistic dataset
- Collected and analyzed at CLiPS (Surkyn, Vandekerckhove, Sandra)
- Summary of verb spelling errors in Flemish teenagers' chat conversations (WhatsApp, Facebook):
  - Socio-demographic info: the teenagers' "profile"
    - Gender, age, educational track, grade
  - Linguistic info: verb spelling errors
    - Verb lemma, error/no-error

Contains "repeated measurements"

(= multiple observations for 1 subject and for 1 lemma - see later)

## 9. Spelling

subject_ID ck to scroll output; double click to	lemma	gender	age	education	grade	error
325	aanbidden	male	17	general	Gr3	0
563	aanbidden	female	18	technical	Gr3	0
742	aanbieden	male	18	vocational	Gr3	0
899	aanbieden	male	17	vocational	Gr3	0
625	aanbieden	female	16	general	Gr2	0
1277	aanbieden	female	18	general	Gr3	0