

Teaching team

André Santos

afs@inesctec.pt

José João Almeida

• jj@di.uminho.pt

Álvaro Iriarte Sanromán

alvaro@ilch.uminho.pt

Bruno Azevedo

brunomiguelam@gmail.com

Data analysis and visualization

Usual workflow

- 1. Gathering and extraction
- 2. Pre-processing
- 3. Analysis
- 4. Visualization

Sources

- · ontologies
- · dictionaries
- · web
 - wikipedia, news websites, social networks, ...
- · books
- pre-compiled data: PORDATA, INE, dados.gov, public datasets
- any text document(s)?

Visualization elements

- · charts
- · word clouds
- · maps
- graphs (networks)
- · infographics

Tools and technologies

- · Tableau
- Google Sheets
- Python
- Command line tools: wget, curl, cut, grep, ...
- Google Maps
- · Graphviz
- Sublime Text
- •••



Getting decent tools on Windows

One of:

- https://tutorials.ubuntu.com/tutorial/tutorialubuntu-on-windows
- Chocolatey
- Virtual machines
- Dual boot
- https://www.howtogeek.com/249966/

Evaluation

· 2 trabalhos práticos

Exercise

Create a map showing the Nobel laureates in Literature allowing to filter by genre.