Session IV

Digital methods and research projects

European ecosystem for Digital Methods

Research groups developing free libre open source tools:

Digital Methods tools
https://wiki.digitalmethods.net/Dmi/ToolDatabase



 Sciences Po Médialab tools <u>https://tools.medialab.sciences-po.fr/</u>



 DensityDesign research projects/ https://densitydesign.org/projects/





Research projects

Evaluation criteria

- Motivation of the chosen project
- Formulation of the research question/goal/hypothesis
- Description of the dataset and the construction process
- Presentation of results
 - Type of network (directed/undirected)
 - Centrality measures
 - Community detection
 - Filters
 - Colors, sizes and layouts
- Discussion of limitations and biases
- Proposal for future work



Most Wholesome Network

- ____
 - which one is the most positive online community?
 - why is it more positive than other ones?
 - what type of users does it have?
 - what type of content?

Data/tools http://tcat.domesticstreamers.com/analysis/



DMI-TCAT

- Access to our TCAT http://tcat.domesticstreamers.com (credentials are available at Google Drive)
- Download Tweet stats
 - Explore it with Spreadsheets!
- Download Twitter client (source) frequency
 - o Explore it with Spreadsheets!
- Download Social graph by mentions
 - Explore it with Gephi!



Evil Millionaires

- Visualize the wealth of the richest people on earth
 - how much do they give to charity
 - how much do they make a day
 - o backgrounds nationality gender age etc.
- How "evil" are they? could their wealth save some of the earth's problems if they decided to invest it?
- what type of people are they?
- how many scandals do they face?
- how different are they treated?

Data/tools

https://www.piie.com/sites/default/files/wp16-1.zip

https://www.kaggle.com/seriadiallo1/world-billionaires



Table2Net

- ____
- Unzip https://www.piie.com/sites/default/files/wp16-1.zip
- Convert the XLS to CSV
- Access to <u>medialab.github.io/table2net/</u>
- Create a bipartite network of citizenship and sector
- Explore the network with Gephi!



Corruption

- Hesitation: How is it possible that there is so much around the world among powerful people?
- Investigation: Analyze how long does it take for justice (law and courts) to judge and incarcerate someone corrupted and powerful. Is it linked to the amount and relevant connections/relationships they have? (Are they hubs and therefore it is more difficult to turn them down?) Compare to less powerful corrupted figures.
- Context/variables: Restrict to a single country. It might be easier to define. Although it would also be interesting to analyze this topic across the world.
- Data/tools https://quienmanda.es/topics/bankia



Quien Manda

Access to Bankia https://quienmanda.es/topics/bankia





Spotify Wrapped

- the 99 songs I listened to the most during 2020.
- gender
- genre
- nationality
- times played
- instrumental or voices
- length
- time listened in total
- how much did the artist get paid?



Water

- ____
 - how much water we use=
 - could we use less?
 - less sweet water bodies, higher sea water levels
 - infrastructure
 - renewable sources
 - where is it running out more



Creative Incomes

- average income per background
- gender
- background
- agencies money
- designer unions
- what users can actually use and afford our designs
- who are we really designing for? capitalist structure
- how inclusive is design?
- why most of "famous" designers are white men



Art World

- ____
 - who is it really for?
 - How much money is there?
 - who sells more by nationality, gender etc
 - tax evasions
 - volatile prices



Countries

• Best and worst prepared for a pandemic or natural disasters



Homework

Watch the following documentary:

Kantayya, S. (2020) Coded Bias

Production Co

https://www.imdb.com/title/tt11394170/



