5-Weeks Course on Interactive Visual Network Exploration

Week 6: Exploring Networks with Timeline, Map, and Multi-view

Feb 16th, 2022

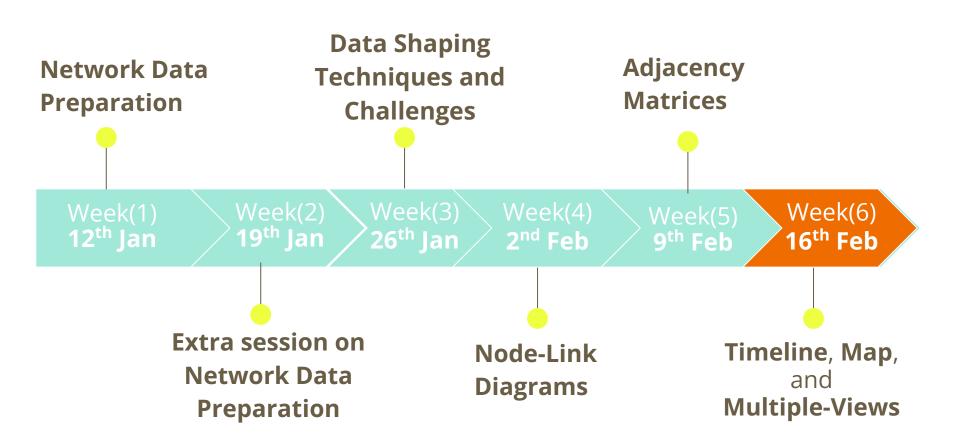






Course Goals

- Structure your network data and prepare it for visualization with the Vistorian.
- 2. **Define goals of your exploration** and what you aim to learn about your network data using visualizations.
- 3. **Know a range of network visualizations**, through theory and hands-on use.
- 4. **Use different types of interactive visualizations** to explore your data.



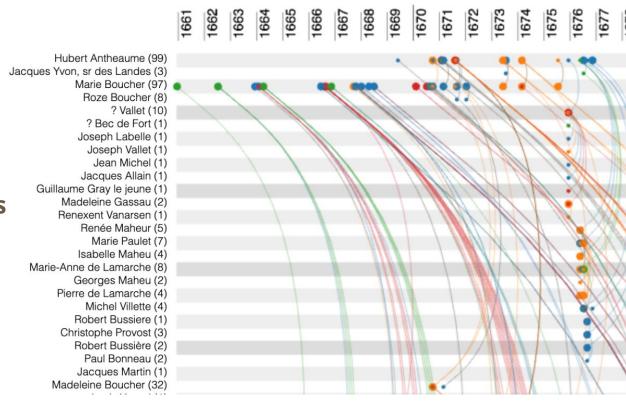
Session Outline

- Timeline Visualization
- Maps
- Demo
- Group Exercise
- Questions & Discussion

Timeline Visualization

Visual Encoding:

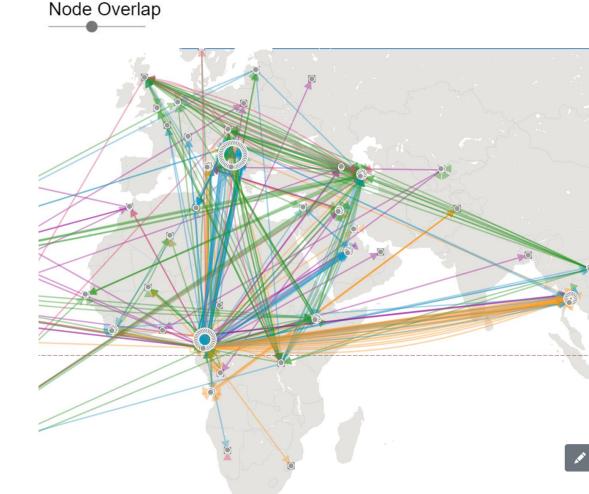
- Arc
- Arc colors: Different colors mean different types of relation.
- Numbers in brackets at node labels: Node degree
- Link start (Larger)
 circle and end circle
 (smaller) size



Map Visualization

Visual Encoding:

- Node Transparency:
 Transparent nodes are free, i.e.
 they do not have geographic
 positions associated with them.
- Node Overlap: defines the spatial distance between nodes with the same position.



Demo

Group Exercise: Discussion of General Findings (10 min)

- Did you find something special about visualizations in your field? Such as:
 - certain structures,
 - sparse or dense,
- Did you find certain techniques that helps the best to prepare your data?

History

Law & Politics

Natural Sciences

Medicine & Health

Business & Management

Diverse-Topics

Questions & Discussion

Thank you for Sharing this Journey with Us

Please share your feedback with us through:

https://forms.office.com/r/pJLp1JmpLJ

Where can I head from here ...

Associating graph with ML (e.g. link prediction)
 https://www.youtube.com/watch?v=GtFxfe07Tik

Complimenting your Network Exploration with Statistical Analysis