

Information Visualization

Introduction to the project
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Marco Winckler

Université Nice Sophia (Polytech) | I3S | SPARKS team | bureau 446

winckler@unice.fr

<http://www.i3s.unice.fr/~winckler/>



Required tasks for the project

- Analyze the data set WASABI;
- Describe the visualization pipeline allowing to create a visual representation of data (from row data to visual variables);
- Describe the target users;
- Describe the visualization goals and user tasks;
- Propose and develop 2 visualization techniques using D3JS including:
 - WASABI data
 - Include interactive tasks (ex. navigation, selection, filters, etc.);
 - Include two levels of visualization (overview + details);
 - Allow to change the dataset;
 - Provide an executable demonstration;

Evaluation

- A report ~15 pages (max);
- A demo of the project;
- The source code of your project
- A written examination via Moodle;

Classifications of visualization techniques

- Types of visualization (examples for the project)
 - Hierarquie (ex. treemaps, sunburst)
 - Location (ex: Choropleth, map of dots)
 - Graph (ex. network, attributes on networks of edges and nodes)
 - Multiariate (ex. parallel coordinates, parallel set)

<https://datavizcatalogue.com/>

Exercise

- Work in pairs (2 students per project)
- Check the web site : <https://datavizcatalogue.com/>
- Analyze the data set
 - Find suitable structures of data (ex. trees, tables, etc)
 - Select attributes you are going to use in the project
 - Identify user tasks and goals
 - Identify suitable information infovis techniques
- Round table about the project