
PV251 Visualization
Seminar 2

What today?

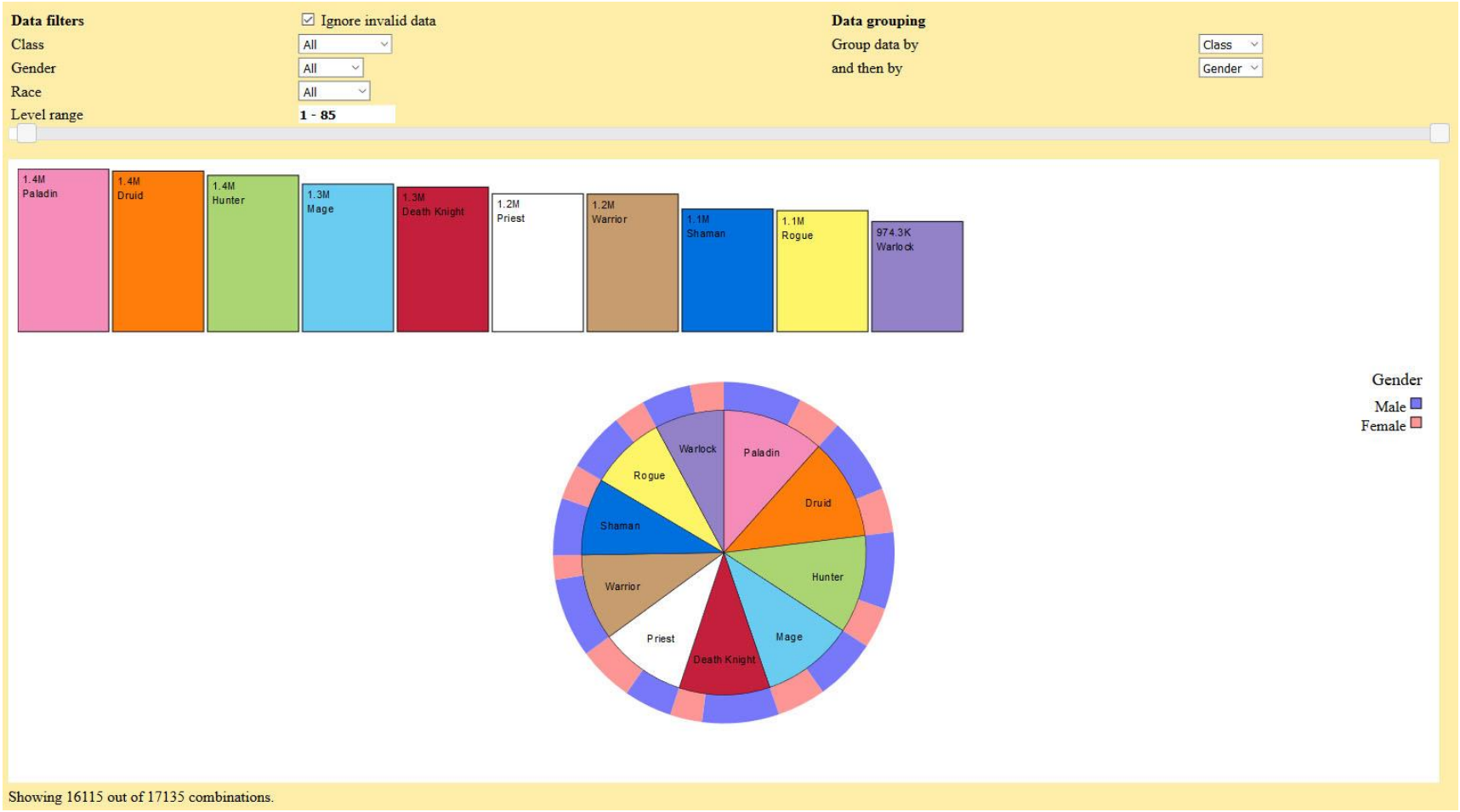
1. Postcards
2. Project definition
3. Examples of projects from the last years
4. Visualization tools
5. Processing
6. Physical visualization

PROJECT DEFINITION

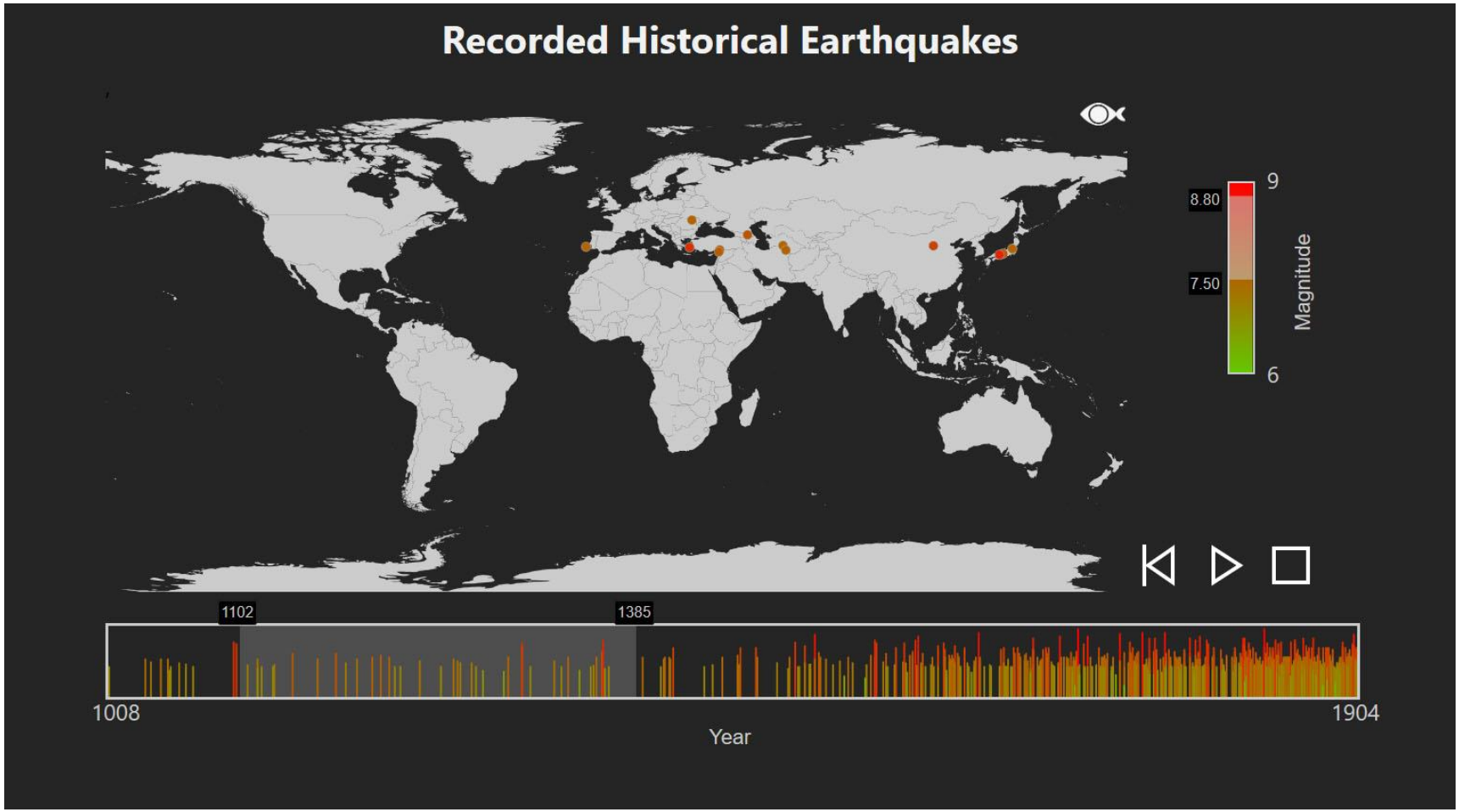
Do not forget about …

- Multiple interactively linked views
- Readme with data description, reference to data source, description of preprocessing used, description of interaction … and whatever else what is relevant (recommended browser, etc.)
- All source codes necessary for launching the application
- All used libraries
- What was your inspiration ☺
- Critical assessment and future work is welcomed

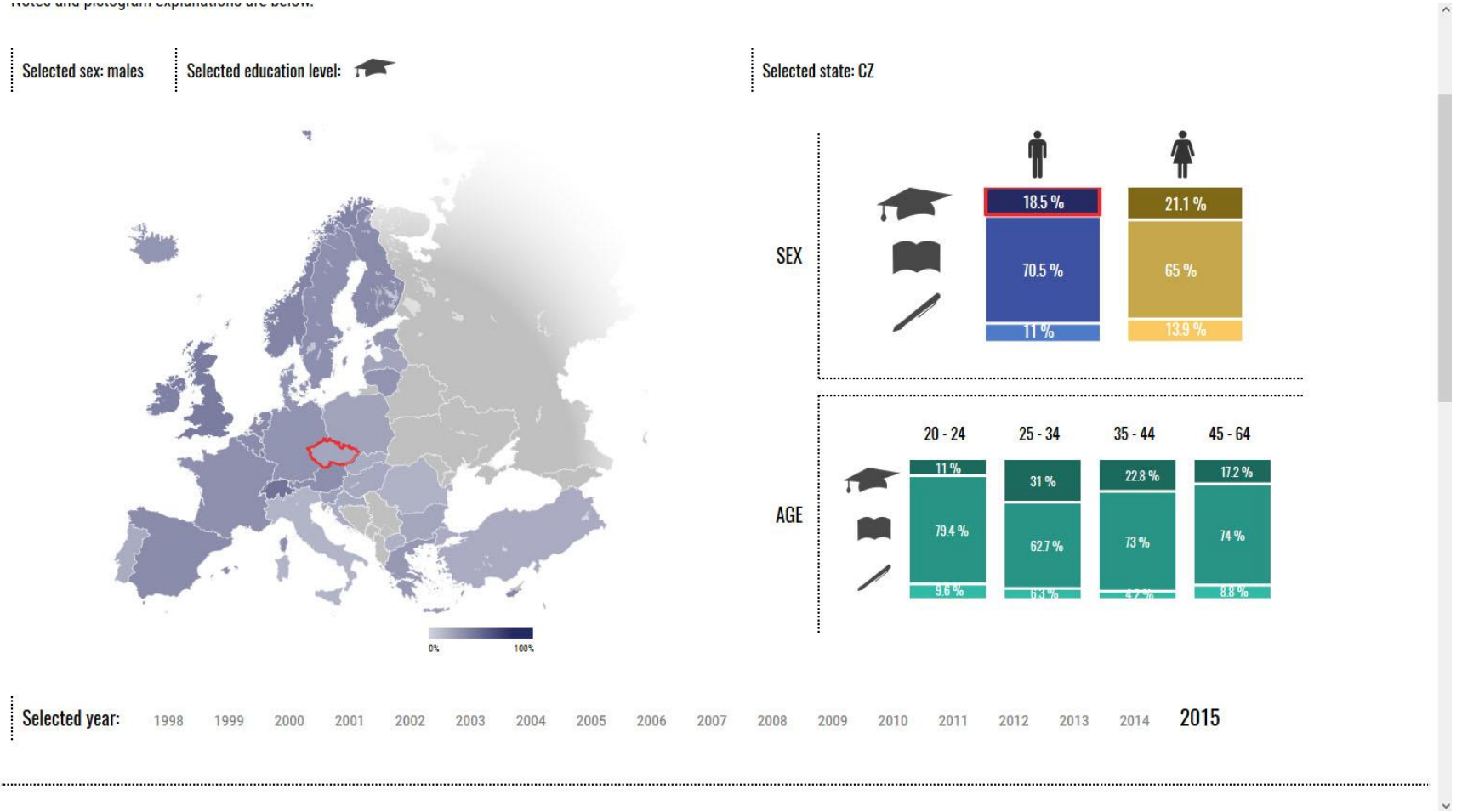
Example – WoW characters



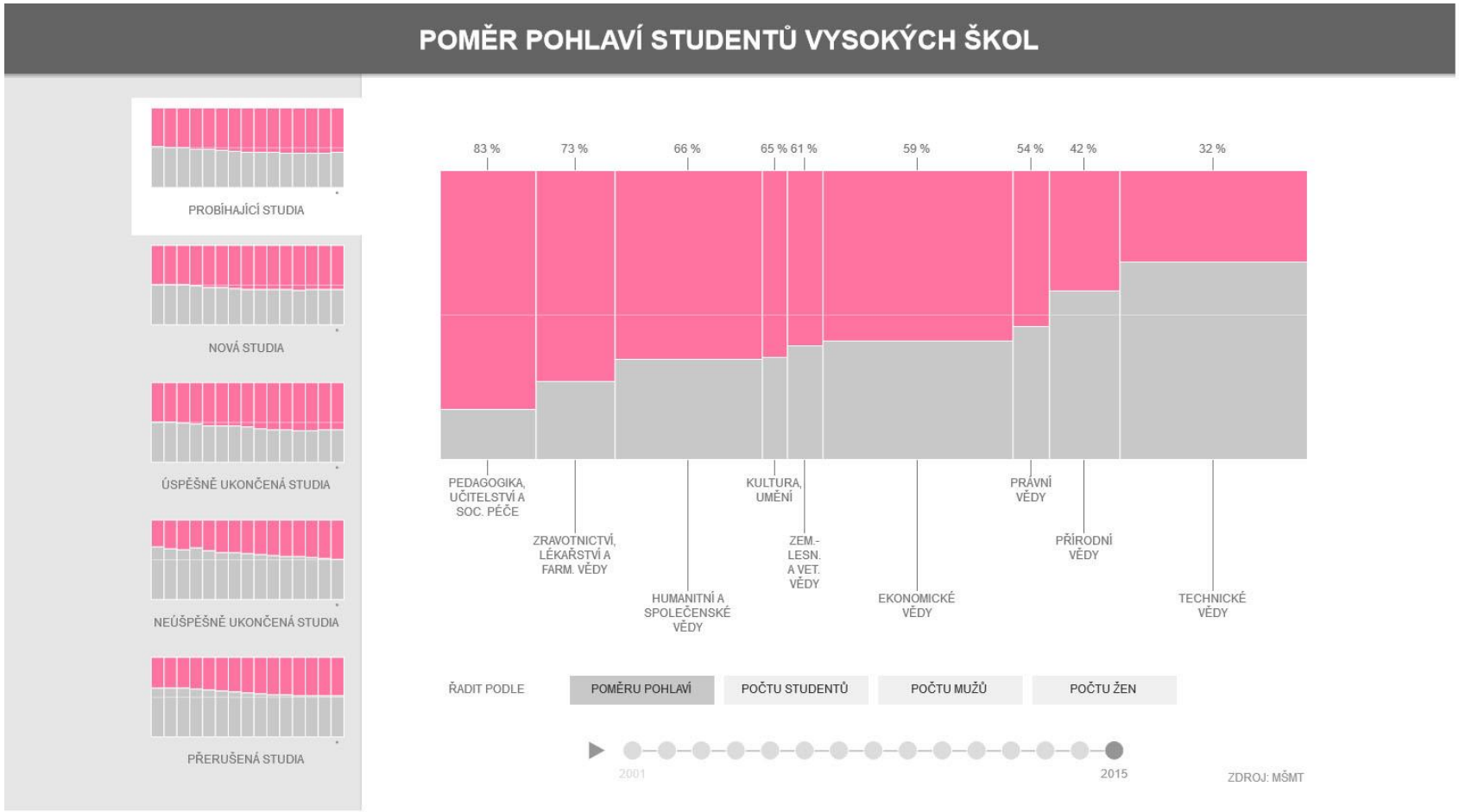
Example – Earthquakes



Example – Education level in Europe



Example – Sex ratio between university students



VISUALIZATION TOOLS

Visualization tools

- Lexipedia

http://www.lexipedia.com

Visualization tools

- Word Clouds

https://www.wordclouds.com/

- Other interesting visualizations

http://chartporn.org/

- Big data

http://www.visualcomplexity.com/vc/

Visualization tools

- Google chart tools – animated graphs

https://developers.google.com/chart/interactive/docs/gallery/motionchart#Example

- GapMinder World

http://www.gapminder.org/tools/#_state_marker_color_scaleType=ordinal;&size_slash__label_which=_slash__default&use=constant;;;&chart-type=bubbles

Visualization tools

- Graphs

http://old.onlinecharttool.com/

http://www.chartgo.com/

http://www.flotcharts.org/

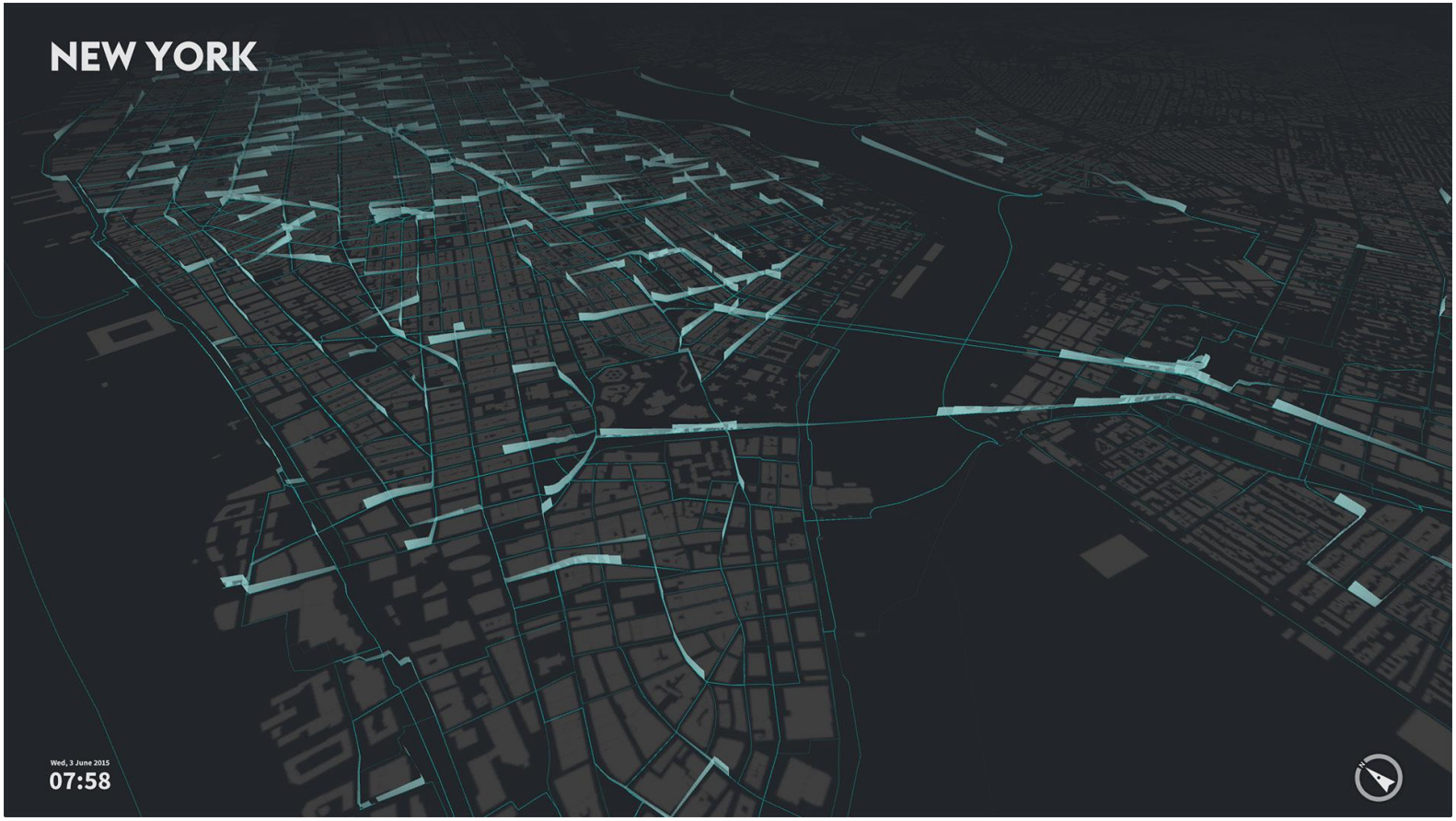
http://fooplot.com/#W3sidHlwZSI6MCwiZXEiOiJ4XjIiLCJjb2xvciI6IiMwMDAwMDAifSx7InR5cGUiOjEwMDB9XQ--

http://www.slideshare.net/kgude/free-visual-tools-snd-2012-cleveland-presentation

PROCESSING

A Comparative Visualization Environment of Urban Bike Mobility

https://uclab.fh-potsdam.de/cf/



Processing

- Web

https://processing.org/

- Documentation

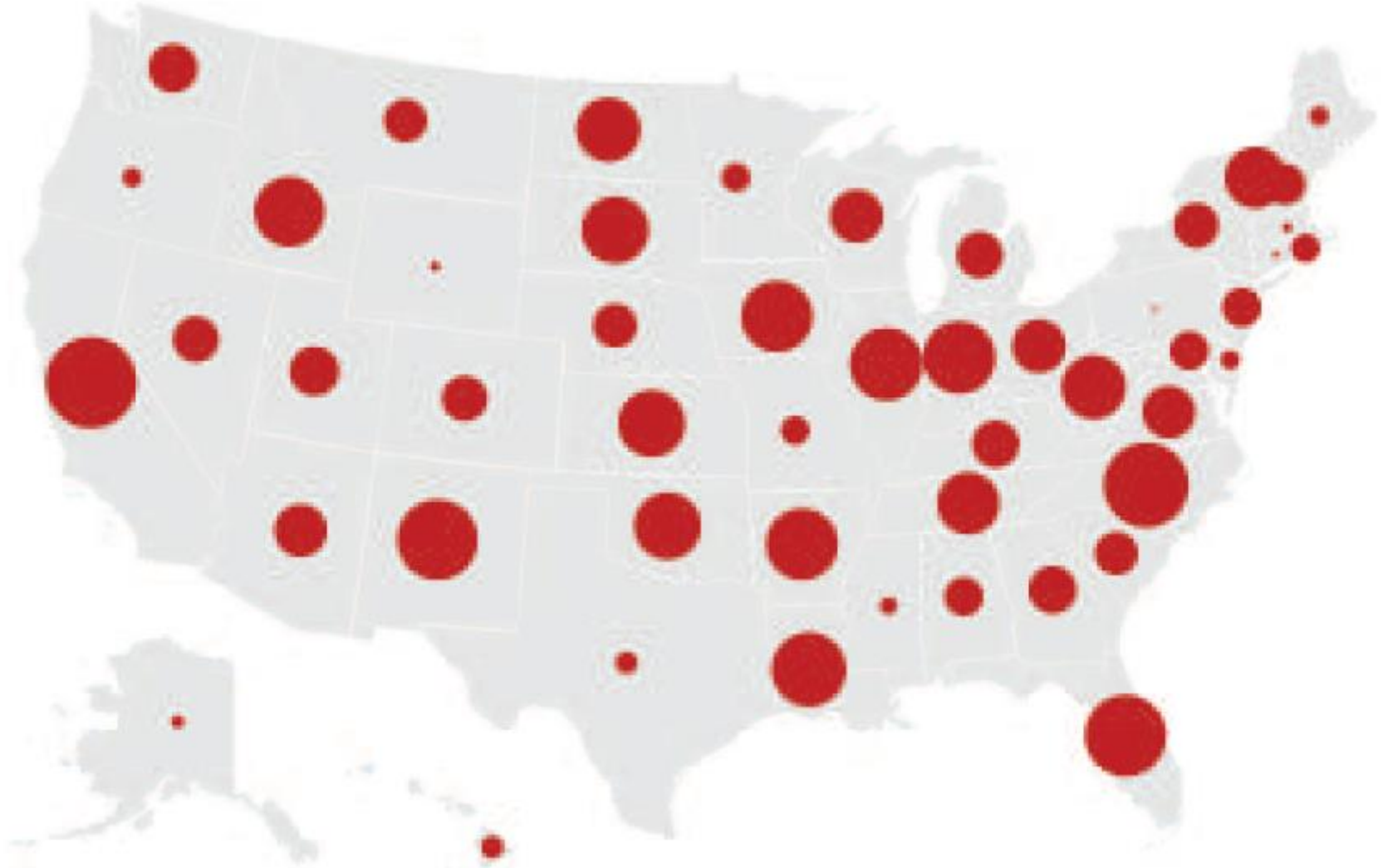
https://processing.org/reference/

- Tutorials

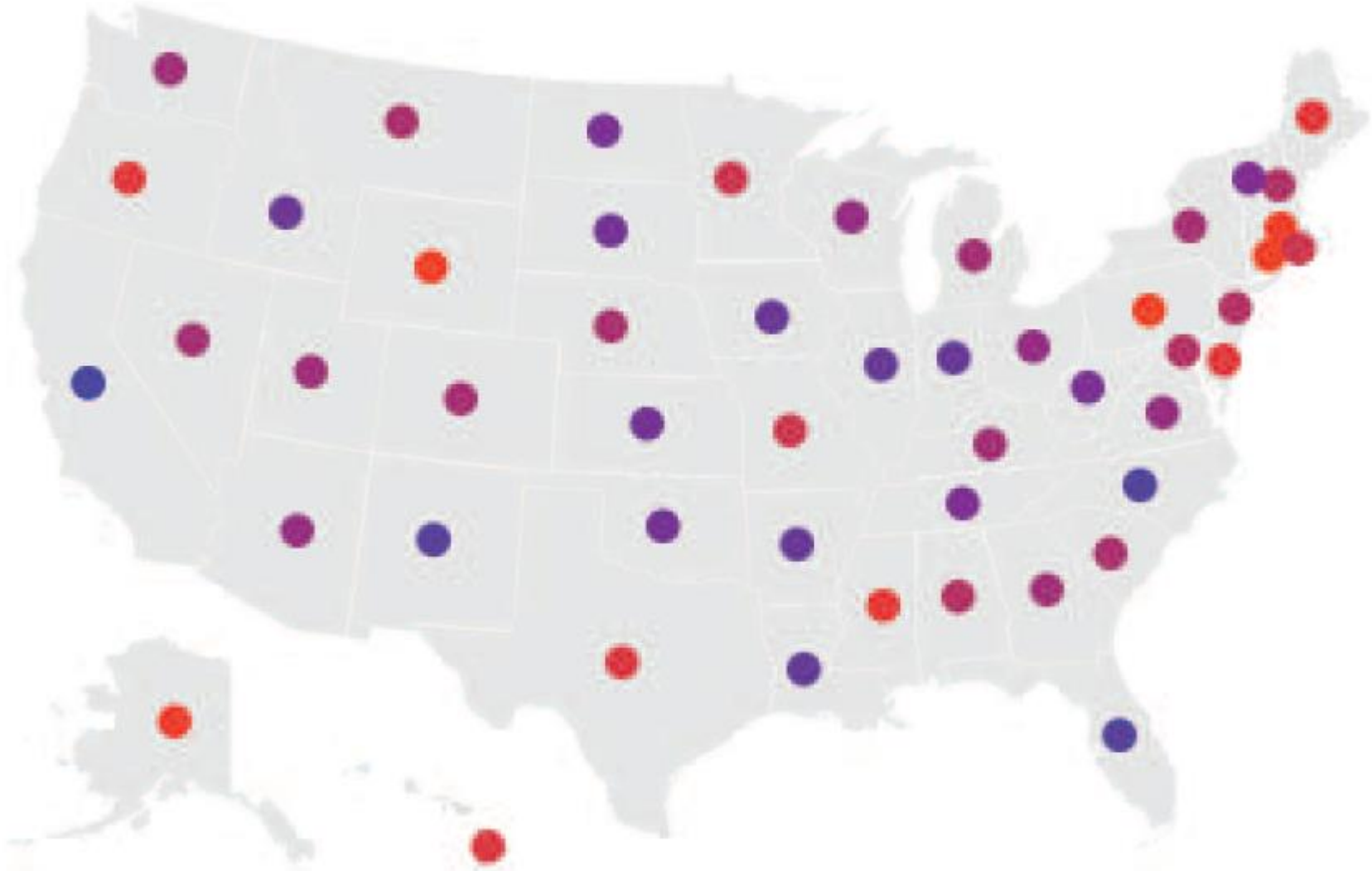
https://processing.org/tutorials/

DATA VISUALIZATION USING MAPS

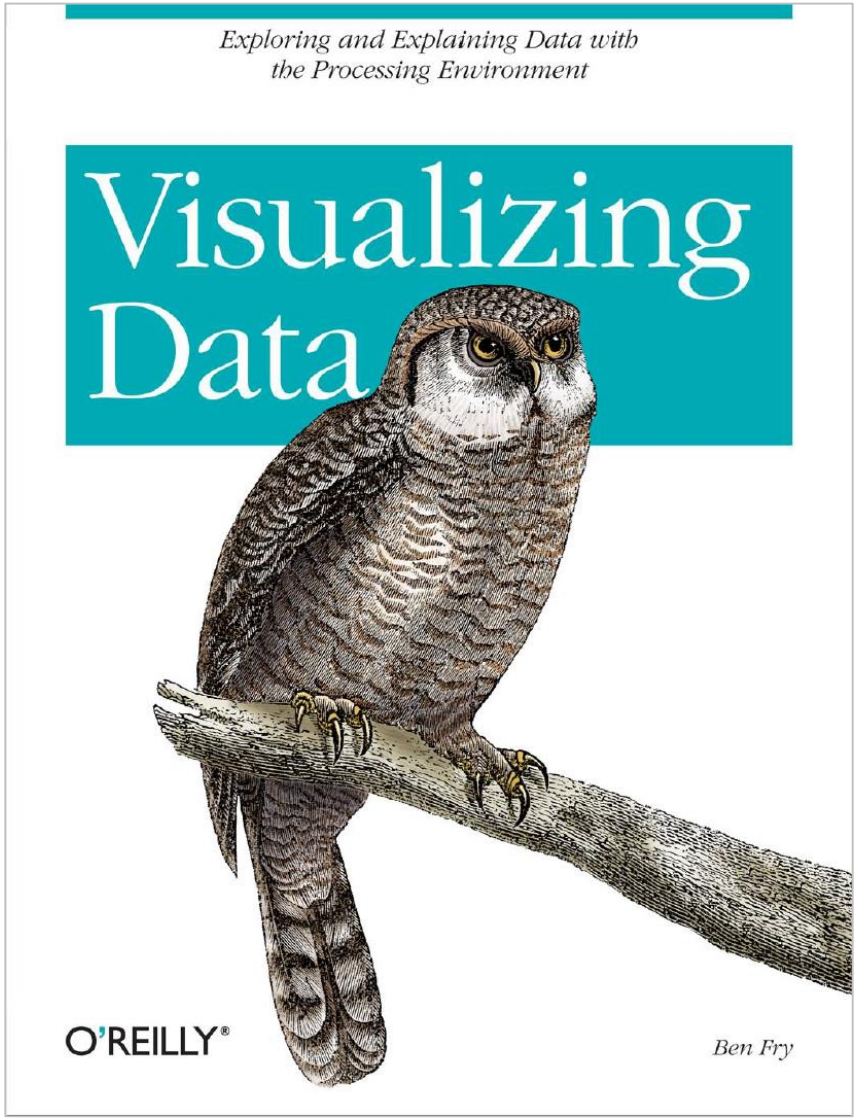
Size variation



Color variation



What next?


Exploring and Explaining Data with
the Processing Environment
Visualizing
Data
O'REILLY®
Ben Fry

Task no. 2

- Create a “physical” visualization of selected dataset
- Prepare the model and very short presentation for next seminar

Examples