

Information Visualization

Exercises

Manuel Huber, Simon Nestler, Michael Schlegel

Lesson I

Visualization of geographical information

Information Visualization

Exercises

(Preliminary) Timeline:

- 28rd April 2009 Visualization of geographical information
- 5th May 2009 Visualization tool kits (Prefuse / Flare)
- 12th May 2009 Graph / Tree visualizations
- 19th May 2009 Fisheye / Treemap visualizations
- 26th May 2009 Magnifying glass
- 2nd June 2009 Bargrams / Filtering
- 9th June 2009 Scatterplots / Interest trees

- 16th June 2009 Project start
- 30th June 2009 Project discussion
- 14th July 2009 Project presentation

Lesson I

Visualization of geographical information

Exercise I

Google Documents

Exercise II

Visualizations with *Google Documents*

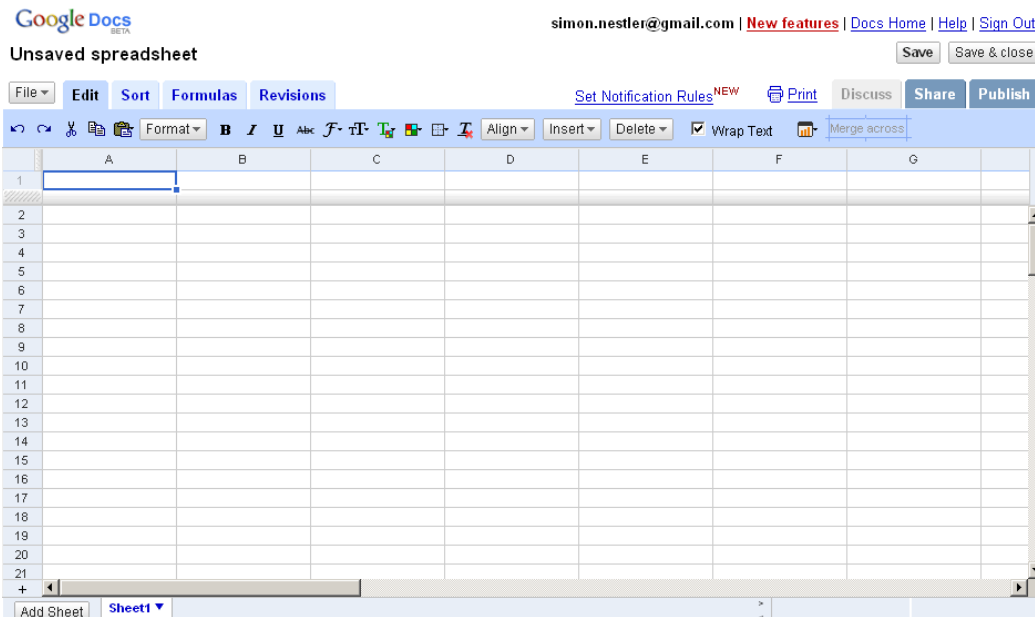
Exercise III

Visualization of geographical information

Exercise I

Google Documents

- Get a *Google Account*
- Get familiar with *Google Docs*
- Create a *Google Docs* spreadsheet



Exercise II

Visualisations with Google Documents

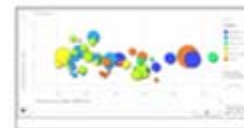
- Interactive Time Series Chart
- Motion Chart
- Organization Chart
- Timeline Gadget



Interactive Time Series Chart

By Google

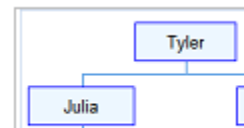
An interactive time series line chart like the one used in Google Finance. The first column contains dates and the second column contains values.



Motion Chart

By Google

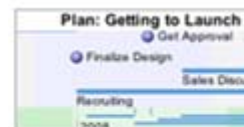
A dynamic flash based chart to explore several indicators over time. Required columns: bubble name, time and 2 columns of numeric values. Optional columns: Numeric values or categories.



Organization Chart

By Google

Expects two columns: the first for employee name and the second for manager name.



Timeline Gadget

By David Huynh and Timeline Fans

Renders a timeline of your data using the Simile Timeline API. Features include multiple, draggable time bands, clickable events with descriptions, images and links, custom colors and pop-out to full screen.

Exercise III

Visualization of geographical information

- Eurovision 2007 song contest
- One or two (non-geographical) visualizations with interpretation
- Geographical visualization (*Heat map*)

