

Introduction to Data Visualisation

General Assembly, 2014

I. What is visualisation

Healthiest Regions in the United States, Washington Post:

<http://www.washingtonpost.com/wp-srv/special/health/us-life-expectancies/>

Driving Safety, in Fits and Starts, New York Times:

<http://www.nytimes.com/interactive/2012/09/17/science/driving-safety-in-fits-and-starts.html>

Girls lead in science exams, but not in the United States:

<http://www.nytimes.com/interactive/2013/02/04/science/girls-lead-in-science-exam-but-not-in-the-united-states.html?ref=science>

Minard's map of Napoleon's March:

<http://en.wikipedia.org/wiki/File:Minard.png>

Twitter activity:

<https://blog.twitter.com/2012/studying-rapidly-evolving-user-interests>

Hewlett Foundation Grants:

<http://www.hewlett.org/grants-tool/index>

Mapping America: Every City, Every Block:

<http://projects.nytimes.com/census/2010/explorer>

II. The visual perception system

Chart suggestions:

http://extremepresentation.typepad.com/blog/files/choosing_a_good_chart.pdf

45 ways to communicate two quantities:

<http://blog.visual.ly/45-ways-to-communicate-two-quantities/>

IV. Tools and resources

Analysis and Design

Open Refine: <http://openrefine.org/>

R: <http://www.r-project.org/>

ggplot2: <http://ggplot2.org/>

Tableau Desktop: <http://www.tableausoftware.com/products/desktop>

Tableau Public: <http://www.tableausoftware.com/public/>

Google Fusion Tables: <http://www.google.com/drive/apps.html#fusiontables>

Many Eyes: <http://www-958.ibm.com/software/analytics/manyeyes/>

Raw: <http://raw.densitydesign.org/>

Programming languages and libraries

Processing: <http://processing.org/>

D3.js: <http://d3js.org/>

Resources

Edward Tufte books:

http://www.amazon.com/Edward-R.-Tufte/e/B000APET3Y/ref=sr_ntt_srch_lnk_1?qid=1389149578&sr=8-1

Visual Thinking: for design, Colin Ware:

http://www.amazon.com/Visual-Thinking-Kaufmann-Interactive-Technologies/dp/0123708966/ref=la_B001K8P3VC_1_1?s=books&ie=UTF8&qid=1395652818&sr=1-1

Show Me the Numbers: Designing Tables and Graphs to Enlighten, Stephen Few:

http://www.amazon.com/Show-Me-Numbers-Designing-Enlighten/dp/0970601972/ref=la_B001H6IQ5M_1_2?s=books&ie=UTF8&qid=1389149790&sr=1-2

For more complete list of tools and resources, see:

<http://www.visualisingdata.com/index.php/resources/>