Data Visualization Notes

# Lecture 1

Practical Assignment every Monday

* Intro
* Tree visualization
* General graph visualization
* Directed graph visualization
* Cluster&multilayer visualization
* Low dimensional data visualization
* High dimensional data visualization

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Grading:

1. Progress (25%): implent choices, parameters, output visualization, qualitative/quantitative evaluation. Update document/progress every week on github
2. Final project (50%): Final Report+Code+ReadMe
3. Presentation(25%):Quality of slides, structure of presentation, talking to audience

## Why

Well-defined questions can be solved by purely computational method (statistics, algorithms, machine learning), but people don’t know how to approach the problem. Vis. Tools help to augment the human capabilities.

## Data types

Qualitative, high dimensional (tables), relational data, ~~spatial data (geometry)~~

High dimensional:

* Explicit dimensional (linear)
* N initial dimensions (neighbours)

Relational data:

* Network (RDF graph) with nodes/edges (Node-link diagram in this course)

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