New Special Course

Aalto University
School of Science

> **I** TELL YOU AND YOU FORGET.
> **I** SHOW YOU AND YOU REMEMBER.
> **I** INVOLVE YOU AND YOU UNDERSTAND.
> CONFUCIUS (500 BC)
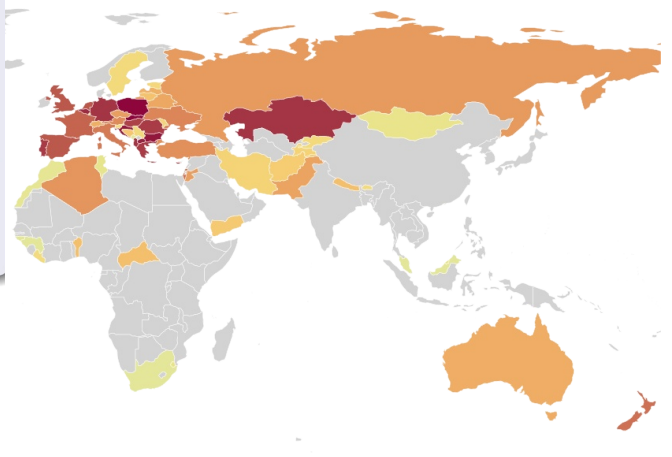
T-61.6040
SPECIAL COURSE IN

ADVANCED INFORMATION VISUALIZATION

Motivation

Analyzing a high-dimensional massive data set in a spreadsheet is boring, error-prone, and not efficient for human perception. In this course, we introduce advanced information visualization techniques to make huge amount of data more interesting, meaningful, exciting, and easier to interact with.

Content

We present methods ranging from basic statistical graphics to advanced machine learning driven visualizations with possibility for human interactions. For practical demonstrations we use toolboxes available in R and Matlab, and specialized programs like Mondrian, Gephi, and NeRV.

Aim

Visualization is neither just about creating pretty pictures, nor about applying pure mathematic models, but extracting and combining the best of both worlds - always with respect to the target audience. You will learn state-of-the-art methodology.

Kerstin Bunte and Manuel Eugster
Thursdays 14:15-16:00 T5; starting September 12, 2013
https://noppa.aalto.fi/noppa/kurssi/t-61.6040

guest lectures by Jaakko Peltonen