Visualization

Magdalena Turska

What's the point?

- impress your boss?
- present boring data in colourful way?
- occupy article space with nice image?

all fair enough…

Perhaps there's more to it?

- maximize understanding and communication
- to see the unseen: spot patterns and stimulate hypotheses
- save time

to communicate what we **know**
or
gain insight in what we **don't know**

let's have a look at a dataset and
discover its meaning and significance

let me introduce… **Ioannes Dantiscus**

sources of my data

- list of letters: MySQL relational database, csv output via PHP script
- list of geocoordinates for places: csv retrieved from XML file via XSLT transform; contents of XML obtained earlier batchgeocoding list of places
- both imported into R, reshaped and merged as necessary

visualization in R/Shiny

- interactive
  - controlled by sliders/dropbox
- tabbed outputs
  - datatable: for viewing data
  - summarized: basic stats on columns
  - time distribution: single & stacked bar charts
  - spatial distribution: leaflet map widget