

Informations Visualisierung SoSe 19

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1 1. Lecture

1.1 Orga

- Website: st.uni-trier.de/lectures/S19/IV/
- Tutorial: TBD (beginning: 22.-26.04.)
- Final exam: Do, 11.07. (elfths of July) 12-14 (H12)

1.2 Visualisation-Basics

- Combine different kinds of information in one graphic (geographical, temporal, historical, numeric, etc.)
- Sharing and visualising abstract data, without physical representation
- Visualisation is not
 - scientific visualisation (non-abstract data)
 - computer graphics
 - graphic design
- **Example Treemap**
 - representation of a hierarchy of a filesystem
 - no border used for a square (compression)
 - light effect shows curvature, indicating where the squares/areas end
 - \Rightarrow only 4 pixels needed instead of 9
 - Several drawbacks (alternative: tree view)

Abstract Data

- Text, table
- Hierarchy
- Composed data (Multivariate data): Example Napoleon (Slide 1)
- Time series: multivariate data with time as a dimension

Definition: Visualisation comprehend and extract data, visualisation produced automatically (not manually by humans)

Visualisation process

- graphical user interface
- interaction to create and manipulate the visualisation (**Visual steering**)