Übung zur Vorlesung
Informationsvisualisierung

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Visualizing Multivariate Data

Variables > 3
Glyphs

- Small-sized visual symbols
- Variables are encoded as properties of glyph
- Each case is represented by a single glyph

**Main Limitation**: Have to be learned
Star Glyphs

• aka web diagram, spider chart, star diagram …
• Radial axes representing the variables
• Allows for comparison based on the shape of the resulting object

• Limitations:
  • Works for small data sets only [3]
  • Hard to compare fine differences in spoke lengths
  • Thus better suited for identifying outliers
Chernoff Faces

- **Theory**
  - Humans are able to recognize small changes in facial characteristics
  - Data is encoded by stylized faces using up to 18 characteristics

- **Limitations**
  - Extreme values negatively influence the impression of a face and the recognition of other values [1]
  - Experiments [2] reveal that recognition of Chernoff faces is a serial process and thus there is no significant advantage over other iconic visualization
Your Turn

- Nominal values:
  - degree program (Media Informatics, Informatics, KuM)
  - relationship (yes/no)
- Ordinal Values:
  - Grades in MMI1, Infovis, DBS, Theoretical Computer Science, Distributed Systems
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