

Visualization

– Information Visualization I (Questions)

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Possible Questions

- State four interaction tasks

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Interaction Tasks: (*lecture “Design- and Interaction Principles”*)

- *Overview*: gain overview of entire data space.
- *Zoom*: zoom in information objects of interest.
- *Filter*: filter out uninteresting information objects.
- *Details-on-demand*: select object and get details.
- *Relate*: view relationships between objects.
- *History*: keep history to allow undo/redo.
- *Extract*: extract objects for further processing.

Possible Questions

- What is Shneiderman's mantra?

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- Shneiderman's Mantra: Overview first, zoom and filter, then details on demand.

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- What is the gauge chart?

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- What is the gauge chart?
- Visualization of a single number
- Inspired by speedometer
- High familiarity
- Puts the number into context, i.e. the range of possible values
- Critical values might be emphasized, similar to city speed limit at 50km/h
- Criticism:
 - Take up lots of space
 - Do not show history but only the current value



Possible Questions

- What are Chernoff Faces?

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- What are Chernoff Faces?
- Up to 18 attributes can be mapped to face properties
- **Pro:** humans are familiar with interpreting faces
- **Con:** high variance in interpretation of the same face

