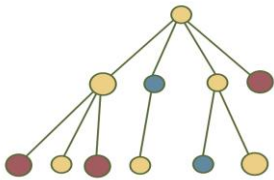


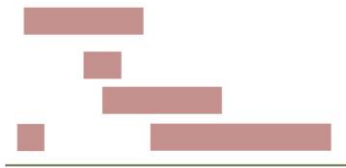
LAYOUT CARD: Arc Connection



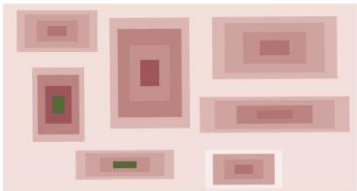
LAYOUT CARD: Tree



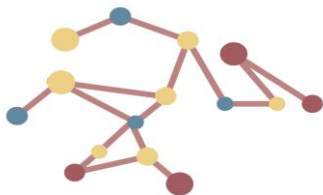
LAYOUT CARD: Gatt Chart



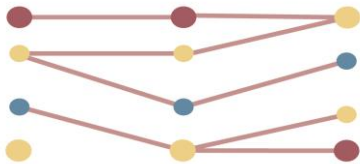
LAYOUT CARD: Heat Map



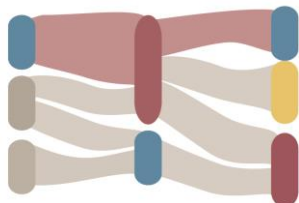
LAYOUT CARD: Network



LAYOUT CARD: Parallel Coordinates



LAYOUT CARD: Sankey



THEORY CARD

Gestalt Principles II


Closure

]]]]]]  
|| || ||

Surroundedness

|||||

Symmetry

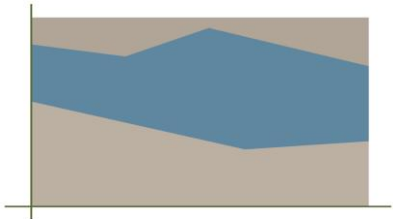


Prägnanz: the simplest and most stable interpretations are favored

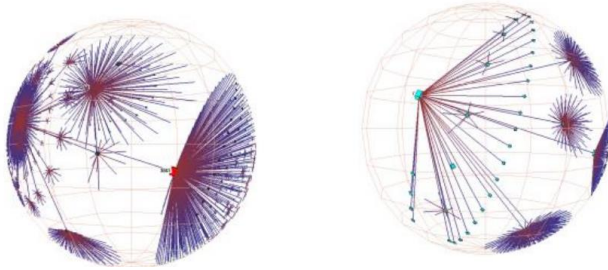
LAYOUT CARD: Spiral Graph



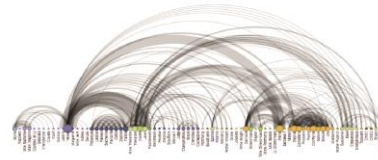
LAYOUT CARD: Stacked Area



**LAYOUT CARD:** Example of Tree:



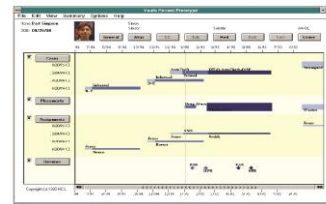
**LAYOUT CARD:** Example of Arc Connection



**LAYOUT CARD:** Example of Heat Map

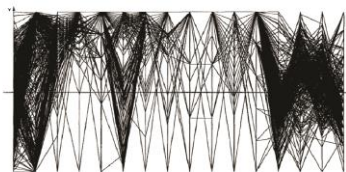


**LAYOUT CARD:** Example of Gatt Chart



<http://hint.fm/wind/>

**LAYOUT CARD:** Example of Parallel Coordinates



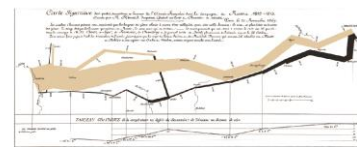
LifeLines, Plaisant et al

**LAYOUT CARD:** Example of Network



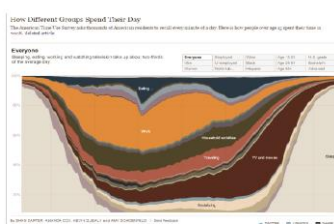
Jeffrey Heer, Michael Bostock, and Vadim Ogievetsky

**LAYOUT CARD:** Example of Sankey



Minard

**LAYOUT CARD:** Example of Stacked Area



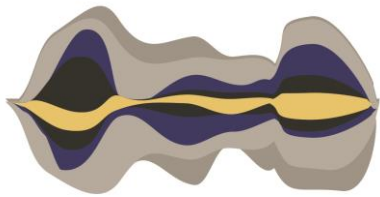
**LAYOUT CARD:** Example of Spiral Graph



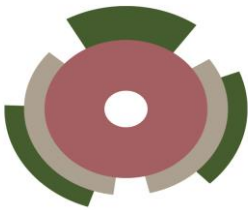
<https://goo.gl/c7fc7R>

Carlis et al., 1998

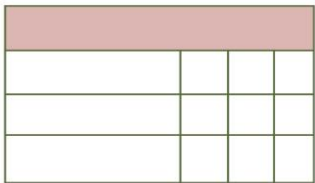
LAYOUT CARD: Steam Graph



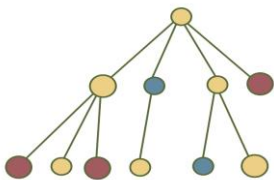
LAYOUT CARD: Sunburst



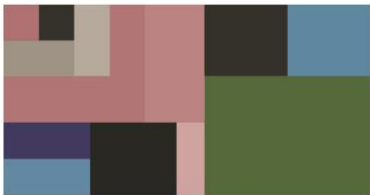
LAYOUT CARD: Calendar



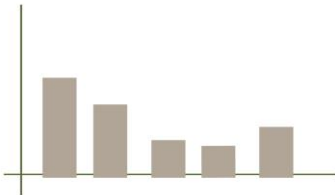
LAYOUT CARD: Tree



LAYOUT CARD: Tree Map



LAYOUT CARD: Bar Chart



**THEORY CARD**  
Encoding Rank for  
Nominal Data

- Easy
- Position
  - Color Hue
  - Texture
  - Connection
  - Containment
  - Density
  - Color Saturation
  - Shape
  - Length
  - Angle
  - Slope
  - Area
  - Volume
- Hard

**THEORY CARD**  
Encoding Rank for  
Quantitative Data

- Easy
- Position
  - Length
  - Angle
  - Slope
  - Area
  - Volume
  - Density
  - Color Saturation
  - Color Hue
  - Texture
  - Connection
  - Containment
  - Shape
- Hard

**THEORY CARD**  
Gestalt Principles I

- Figure & Ground
- Proximity
- Similarity
- Connectedness
- Good Continuation

**THEORY CARD**  
Encoding Rank for  
Ordinal Data

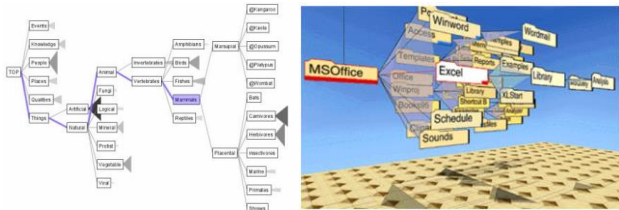
- Easy
- Position
  - Density
  - Color Saturation
  - Color Hue
  - Texture
  - Connection
  - Containment
  - Length
  - Angle
  - Slope
  - Area
  - Volume
  - Shape
- Hard

LAYOUT CARD: Example of Sunburst

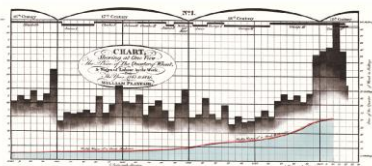


Prefuse sunburst

LAYOUT CARD: Example of Tree

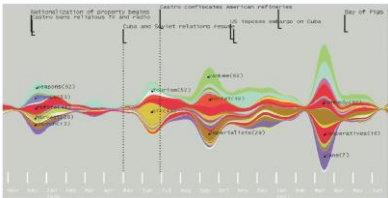


LAYOUT CARD: Example of Bar Chart



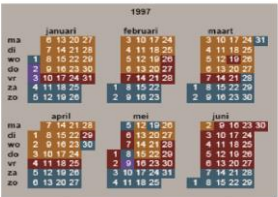
Early 1800s Playfair

LAYOUT CARD: Example of Steam Graph



Theme River, Havre et al., 2000

LAYOUT CARD: Example of Calendar



Calendar View, van Wijk et al., 1999

LAYOUT CARD: Example of Tree Map

