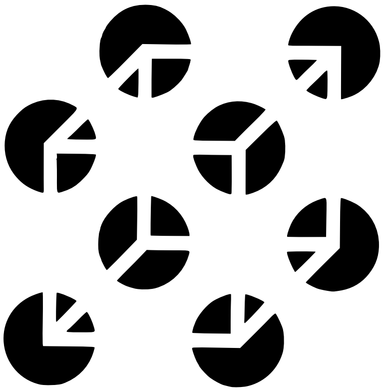
T-61.5010 Information visualization

Exercise 3. Wed Feb. 21, 2007, 16-18 T1

- Patterns
- Visual languages and gestalt laws
- Depth perception

1. Analyze the attached figures of a Dalmatian and the subjective Necker cube. Which Gestalt laws help to group the black shapes into something meaninful? Also, which Gestalt laws can you find in the images on slide 5 of Thursday's (Feb. 15) lecture? [Ware p. 189 onwards]



2. Construct a visual grammar that will describe some process of your choice (eg. some simple algorithm, workflow at a production facility) without using lines or arrows to connect the components. Which of the Gestalt laws can be used to explain the grammar? [Ware p. 210 onwards]

3. Create some images with conflicting pictoral depth cues. (For example, based on the first depth cue object A appears closer than object B, but based on the second depth cue B appears closer than A.) Are some depth cues stronger than others? If yes, try to create an example. In what situations does it make sense to create a visualization using depth cues? [Ware p. 259 onwards]