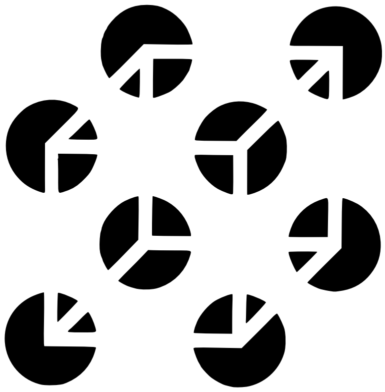
T-61.5010 Information visualization

Exercise 3. Mon Feb. 13, 2006, 10-12 T2

- 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? [Hint: Ware p. 189 onwards]



2. Construct a visual grammar that will describe some process of your choice (eg. the flow of a small computer program) without using lines to connect the parts. Find the graphical codes, their visual presentations and corresponding semantics. Which of the Gestalt laws can be used to explain the grammar? [Hint: Ware p. 210 onwards]

3. Create an image where you can see the strength difference between at least two depth cues. [Ware p. 259 onwards]

EXTRA. Search the Web for stereograms (ASCII or normal) and/or create one yourself. Explain how they work. Can you think of an example where stereograms could be used for scientific (etc.) visualization? *This problem is not counted to the bonus points!*