T-61.5010 Information visualization

Problem set 3. Tue, 10th Feb., 2009, 10-12 T2

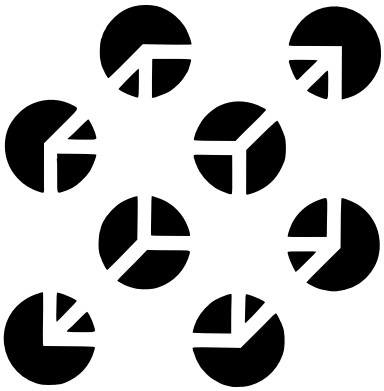
1. Present an example and discuss the properties of a good color scale for representing:

   a) Land use (residential, industrial, recreational, agricultural, etc.) on a map.

   b) The level of elevation on a map.

2. Construct a visual grammar that will describe some process of your choice (some simple algorithm, workflow at a production facility, recipe, etc.). Which Gestalt laws can be used to interpret figures that make use of the grammar?

3. Analyze the attached figures of a Dalmatian and the subjective Necker cube. Which Gestalt laws help to group the black shapes into something meaningful?



4. Design a glyph that enables the preattentive perception of as many variables (discrete or continuous) as possible. How many variables can you represent with the glyph and how accurately can the values be perceived? What should be taken into account when designing the glyph?