**Superimpose Layers**

- **layer:** set of objects spread out over region
  - each set is visually distinguishable group
  - *extent:* whole view
  - *design choices:* how many layers?
    - how are layers distinguished?
    - small static set or dynamic from many possible?
    - how partitioned?
    - *heavyweight with arista vs lightweight with selection*
    - *distinguishable layers*
    - encode with different, nonoverlapping channels
    - two layers achievable, three with careful design

**Partitioning: Recursive subdivision**

- **system:** HIVE
  - **partitioning:**
    - *split by neighborhood*
    - *then by type*
    - *then by time*
    - *years* as rows
    - *months* as columns

**Views and glyphs**

- **views:**
  - *view:
    - contiguous region in which visually encoded data is shown on the display
  - *glyph:
    - object with internal structure that arises from multiple marks
    - *no strict dividing line*
    - *view: big/detailed*
    - *glyph: small/iconic*

**Partitioning: List alignment**

- **views:** single chart with grouped bars
  - *split by state into regions*
  - *compare easy within state, hard across ages*
  - *small/multiple bar charts*
  - *split by age into regions*
  - *compare chart per region*
  - *compare easy within age, harder across states*

**Further reading**

- Visualization Accuracy and Design: Perception. All secara. SIGGRAPH, July 2014.