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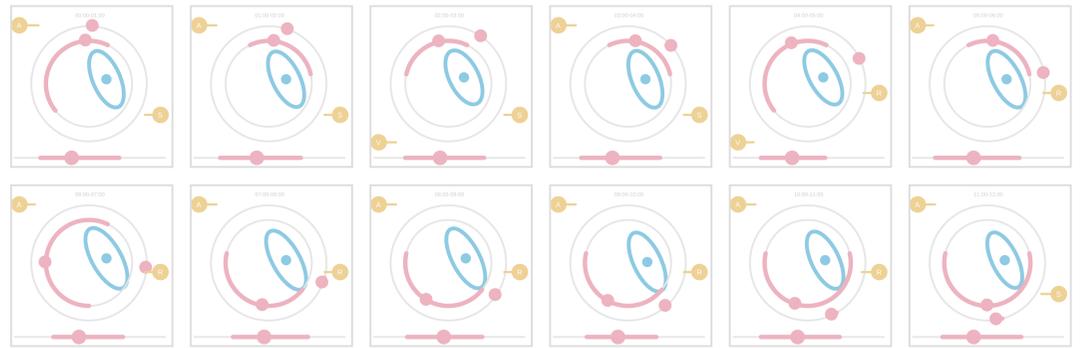
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Multi-Perspective Synopsis with Faceted Views of Varying Emphasis

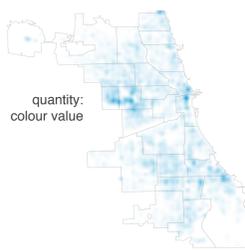
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DESIGN CHALLENGE Data analysts must routinely make comparisons of data grouped into many collections. Small multiples, juxtaposed and arranged in a useful order are an effective layout solution here. However, often there are several variables, or perspectives, that together help to define collections. We consider a design space that supports juxtaposed comparison across many collections and on **several** perspectives concurrently.

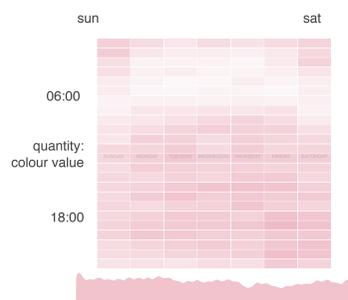


space

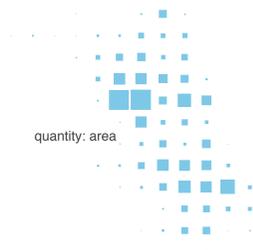


low abstraction
maximum details
necessary

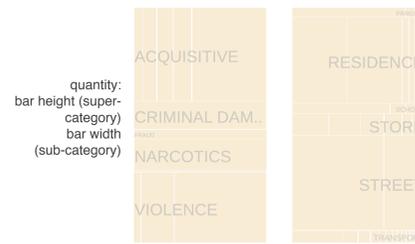
time



medium abstraction
aggregation



description

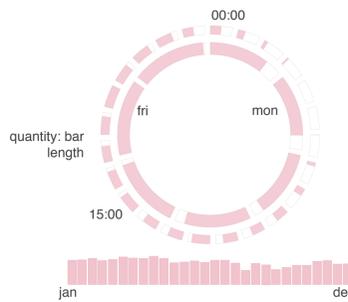


DESIGN FRAMEWORK

We use data collected from crime reports. For each report, a spatial location and timestamp is recorded along with descriptive information relating to the crime.

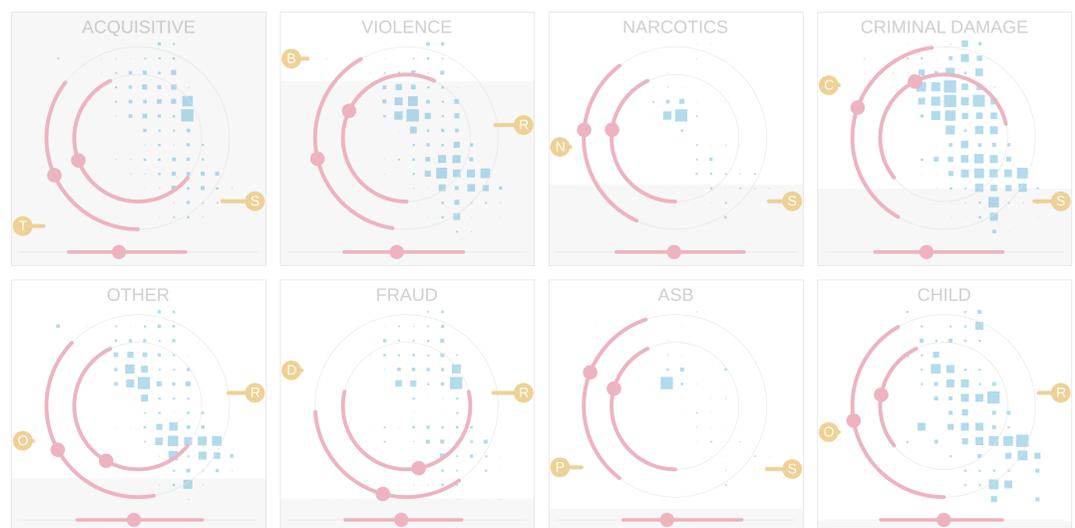
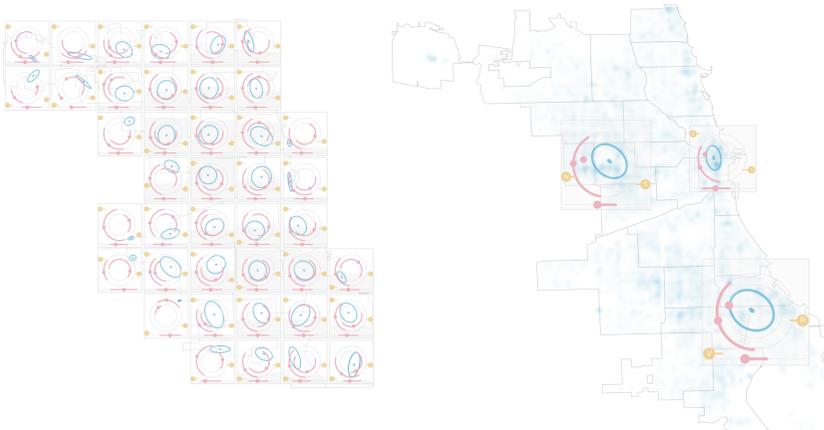
We design visual summaries for these three perspectives at three levels of abstraction. The highest abstraction level provides a low detail, low clutter overview. The medium and low abstraction levels expose more information on the underlying data.

high abstraction
central tendency



We speculate that perspective views can be flexibly superimposed on one another to form single graphical composites that can then be juxtaposed for comparison.

DESIGN EXTENSIONS FaVVE probes summarise data within a selected spatial and temporal extent. Probes can be moved and resized interactively. By watching the probes whilst filtering by time or description, patterns of activity in priority locations can be monitored.



crime records grouped by crime type
space: medium | time: high | description: high

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