Multi-Level Visualization of Interrelated Data Entities

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Nowadays we generate information in a variety of contexts using multiple devices.

Result: large amounts of complex data.
Problem: finding a way to interrelate and analyze information.

Visualization may be the solution!

Approach: Multi-Layered Interactive Visualization

Challenge: representing data entities and dependencies while avoiding visual clutter.
Solution: using vertical layers to represent sequentiality and visually interconnecting data entities using interactive mechanisms.

Levels: time frames.
Data entities: circles (size proportional to a given feature).
Dependencies: visual connectors.
Detailed information: right-hand side panel (list of dependencies).

Interaction
Mouse over entity shows all its dependencies.
Selecting a dependency on the panel shows the visual connector.
Entity lock for simultaneously comparing two entities.

User-reported results
General information immediately perceivable.
Simple and natural exploration and comparison between entities.