Guided Visual Analytics

Background
Visual analytics (VA) combines analytical methods with interactive visual interfaces to explore complex data. However, the more complex the data, the more complex the tools used to examine them. A negative effect of complicated instruments is that analytical goals are more difficult to achieve. Therefore, it makes sense to consider methods that guide or support the user in the process of visual analysis.

Goal
Perform a literature review on how the concept of guidance is integrated into VA systems.

Tasks
- Propose a conceptual model of guidance in VA (basic components and their interplay).
- Provide a recommendation for developer guidelines on how to integrate guidance into VA systems.

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Background
Traditional VA systems are based on desktop applications that provide a set of linked views to analyze the data at different levels of abstraction. In recent years, numerous new user interfaces and augmented reality technologies have been developed that might be better suited for the collaborative analysis of complex data.

Goal
Conduct a literature review on the state of the art in immersive VA to investigate collaborative knowledge gain based on complex data compared to conventional VA systems.

Tasks
- Discuss advantages and disadvantages of immersive VA over conventional VA systems.
- Compare immersive systems regarding methods, costs and effort to conventional VA systems.
- Propose guidelines on how to adapt visualizations/applications for immersive systems.

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