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Exploring Geovisualization

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Chapter 8 -Exploratory Visualization with Multiple Linked Views

Jonathan C. Roberts

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Publisher Summary

This chapter provides an overview of current multiple linked view tools, methodologies, and models, discusses related challenges and ideas, and provides some rudiments for coordination within a geovisualization context. Such multiple linked views (MLVs) enable the user to quickly view a scenario, compare it with previous realizations, examine properties such as dependencies and sizes, and put this view to one side and try out another scenario. There are many good principles that can be learned from examining the way other systems achieve this MLV exploration. In geovisualization, the explorer often generates many spatial or abstract representations. With such exploratory environments, the user is able (even encouraged) to take a hands-on approach to gain a deeper understanding of the underlying information and can also change various parameter values of a visualization system that in turn alters the appearance of the visual result. In addition, the user may generate additional windows that contain the visual result of the new parameters so they can compare different ideas side-by-side.

Commonly these windows are linked together to allow further investigation and discovery, such as selection by brushing or combined navigation.

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