

Coordinated Multiple Views: a Critical View

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Hundreds of papers have been presented at the five conferences on Coordinated and Multiple Views (CMV) in Exploratory Visualization and related conferences on information visualization and visual analytics [R07]. However, CMV are still rarely implemented in commercial systems and many users are even not aware that multiple views are useful and coordination can help them to solve their problems. Even toolkits especially designed for information visualization often do not offer any coordination mechanisms for multiple views. One of possible reasons for this may be that existing CMV tools and approaches are insufficiently suited to real-life problems.

Most of the CMV tools deal with single-table data sets of rather small sizes. A typical implementation allows one to create several displays (statistical graphics and/or geographical maps) representing individual entities and/or aggregates (e.g. histograms) and link them by brushing and selection. The displays are coordinated through exchanging references to selected entities. To our best knowledge, this approach works efficiently for tables with sizes up to about 10^5 records. Linking displays that reflect larger tables causes significant delays.

There are practical applications that require analysis of much larger and complex data sets. Visual analytics [VA05], a science of analytical reasoning supported by visual interfaces, deals with problems that require making grounded decisions on the basis of voluminous, heterogeneous, and dynamic data sets. In our opinion, work with such data sets is not yet properly supported by existing CMV systems, which are not scalable.

The scalability problem has four major aspects: amount of data to be analyzed, dimensionality, complexity of information, and dynamics.

1. *Amount of data.* When a dataset is large, visualizations that represent individual entities suffer from overplotting. Even if just one pixel of the screen is

used for representing one entity, as in pixel-oriented techniques [K00], it is impossible to present more than 10^7 records on a screen. Traditional visualizations such as scatter-plots or parallel coordinates plots have much more restricted applicability.

Visualization methods that represent aggregates [UTH07] help to avoid overplotting. Examples of such methods are histograms, binned scatter-plots, and mosaic displays. However, any aggregation involves information loss, and therefore it is necessary to provide powerful tools for checking sensitivity to aggregation parameters.

Coordination between multiple displays for very large data tables requires significant computational power. For both individual and aggregated displays, it seems appropriate to use databases for storing and processing data. An open problem is the design of coordination mechanisms that are able to work with large data sets without loading them completely into RAM. Is it possible to implement dynamic querying or brushing in such a way that only a small part of the data is loaded in the memory and all processing is done by the database? What are practical limitations of such an approach?

One of the methods for improving the computational speed is the use of pre-defined aggregates in data warehouses and OLAP systems. However, this approach does not provide sufficient flexibility needed for data exploration [AA06].

2. *Dimensionality of data.* In practical applications it is often necessary to deal with multi-dimensional data. One aspect of this problem is the number of data dimensions. This aspect was in focus of the information visualization community for years, and we'll not discuss it here. The second aspect is that data may have such complex dimensions as geographical space and time [AA06] that require special attention. Geographical space is not limited to just two or three coordinates but includes the geographical context, which is difficult to formalize. Time has two models, linear and cyclical, and it is often necessary to consider simultaneously several temporal cycles (monthly, weekly, daily etc.; these cycles may overlap).

A combination of several ordinary dimensions with space and time dramatically increases the complexity and

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