

Report

Database searches are usually performed with query languages and form fill in templates, with results displayed in tabular lists. However, excitement is building around dynamic queries sliders and to her graphical selectors for query specification, with results displayed by information visualization techniques. These filtering techniques have proven to be effective for many tasks in which visual presentations enable discovery of relationships, clusters, outliers, gaps, and other patterns. The appeal of information visualization is to gain a deeper understanding of a important phenomena that are represented in a database. The tools that support search, browsing, and visualization have dramatically improved in

the past decade, so there is value for the database community to re-examine recent work and consider what future opportunities there are for integration of database technologies with interactive information visualization.

Advantages: 1) Easy to communicate, 2) Earn attention, 3) Adds credibility, 4) Easy to remember, 5) Enhancing the message. Better understanding. Easy sharing of information. Accurate analysis. Sales analysis. Finding relations between events. Modification of data.

Disadvantages: 1) Correlation is not causation, 2) Similarities now don't mean similarities forever, 3) Abusing the Law of Large Numbers (LLN), 4) Seasonality kills, 5) "Mean," or average, is not the best go-to statistic, 6) Standardizing the benchmark is critical. It gives estimation not accuracy. Biased. Lack of assistance. Improper design issue. Wrong focused people can skip core messages.

Conclusion: The benefits of visual exploration are increasingly well understood, raising expectations of users who want to explore ever larger databases. Gigapixel displays will be useful for some tasks, but innovative interface design is likely to have higher payoffs and wider usage. Current atomic visualizations build on pixel-based representations, filtering to show subsets, and zooming to focus on areas of interest.