



FALCON

Balancing Interactive Latency and Resolution Sensitivity for Scalable Linked Visualizations.

Peer review by: **Mayank Sethi**



KEY CONTRIBUTIONS

- Pre-Compute data processing/loading techniques

Impact

- Redefined Prefetching and indexing.
- Scalability.
- Constant time Re-indexing.
- Faster cold-start exploration.
- Progressive loading of Data.
- Focus on binned aggregation charts.
- Hover based prefetching.
- High user impact.
- Reproducibility through demo

AREAS TO IMPROVE



- Brushing prioritized over switching.
- Limited clarity on the concept and explanation of implementation, like data cube, interpolation and progressive interaction.
- Limited focus on aggregate visualizations.
- Limited evaluation of benchmarks. (Application of this on certain datasets, not different variety types.)
- Evaluation focussed only on time, while it started with balancing.
- Evaluation done on number of rows, less focus on the type of data contained.
- Resolution focus on pixels only, not data/size.
- Limited context of interpolation errors.
- Focus on 0d, 1d and 2d data visualization only.

REVIEW DECISION

Accept for the paper

- But can focus more on memory aspects, other dimensions of the data.
- Should exhaustively mention the process of evaluation.
- Clearly identify the limitations and scope.

