Dashboard debugging and perf

David Kaltschmidt **@davkals**

Grafana Labs

My graphs are not loading!

My graphs are too slow!

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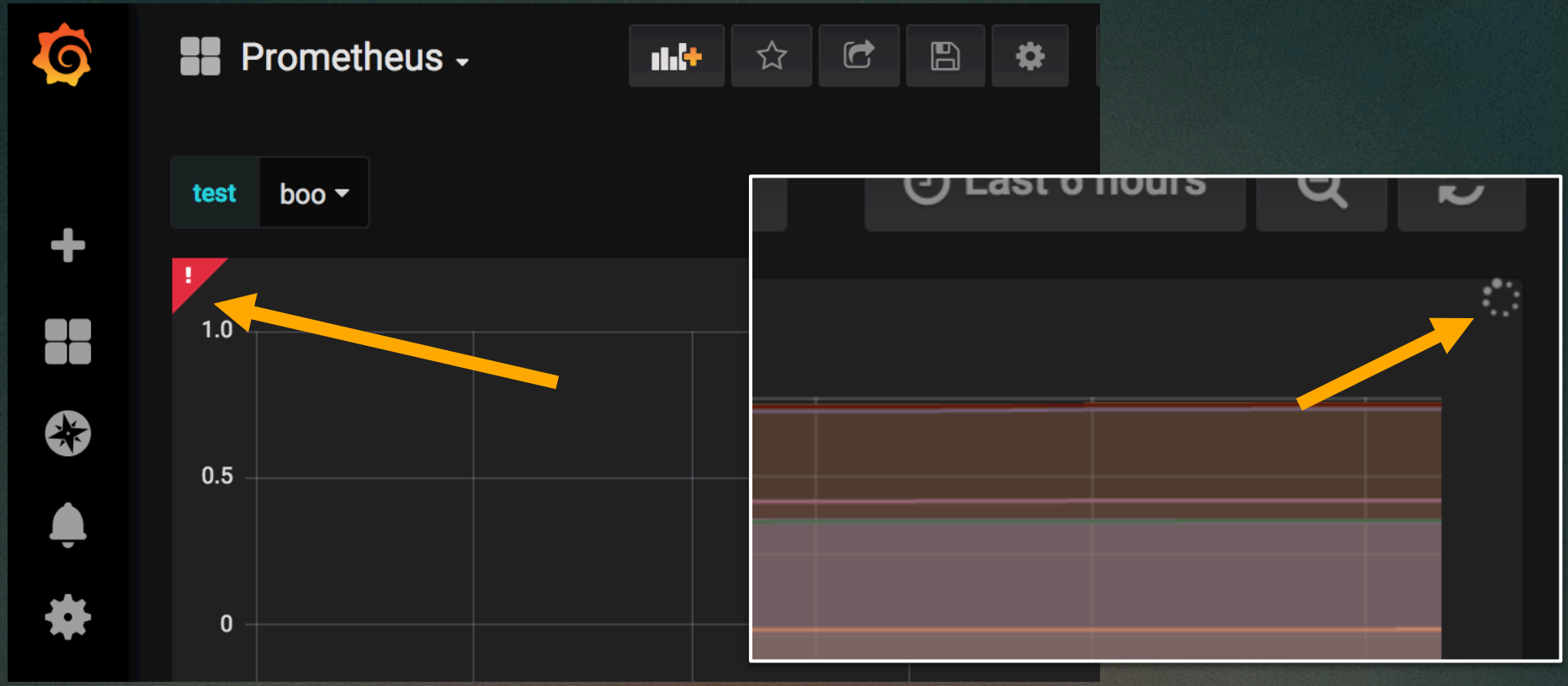
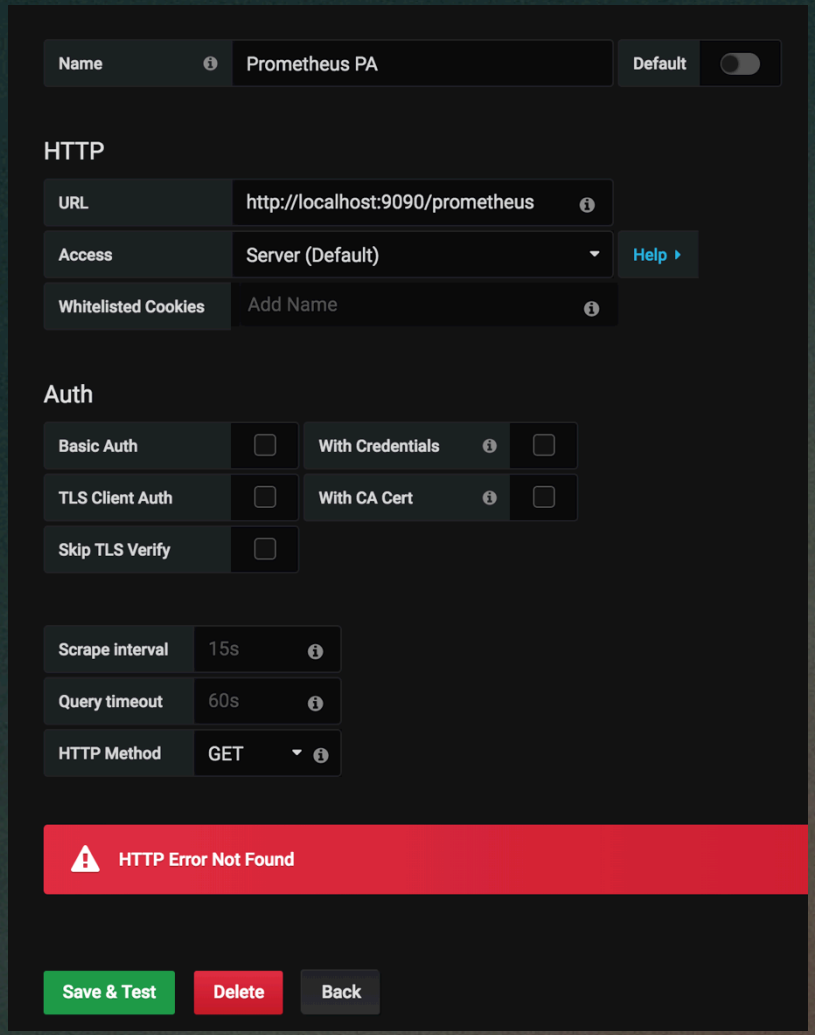


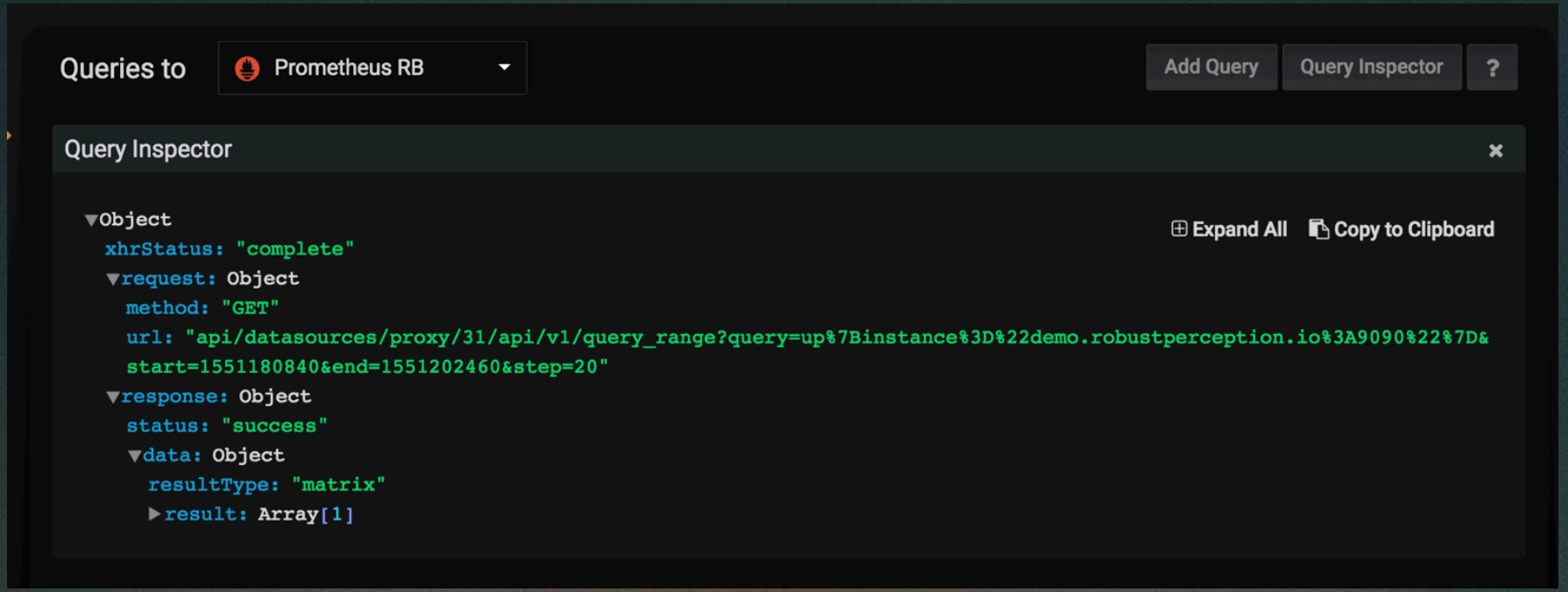
Debugging broken panels

Link to Grafana

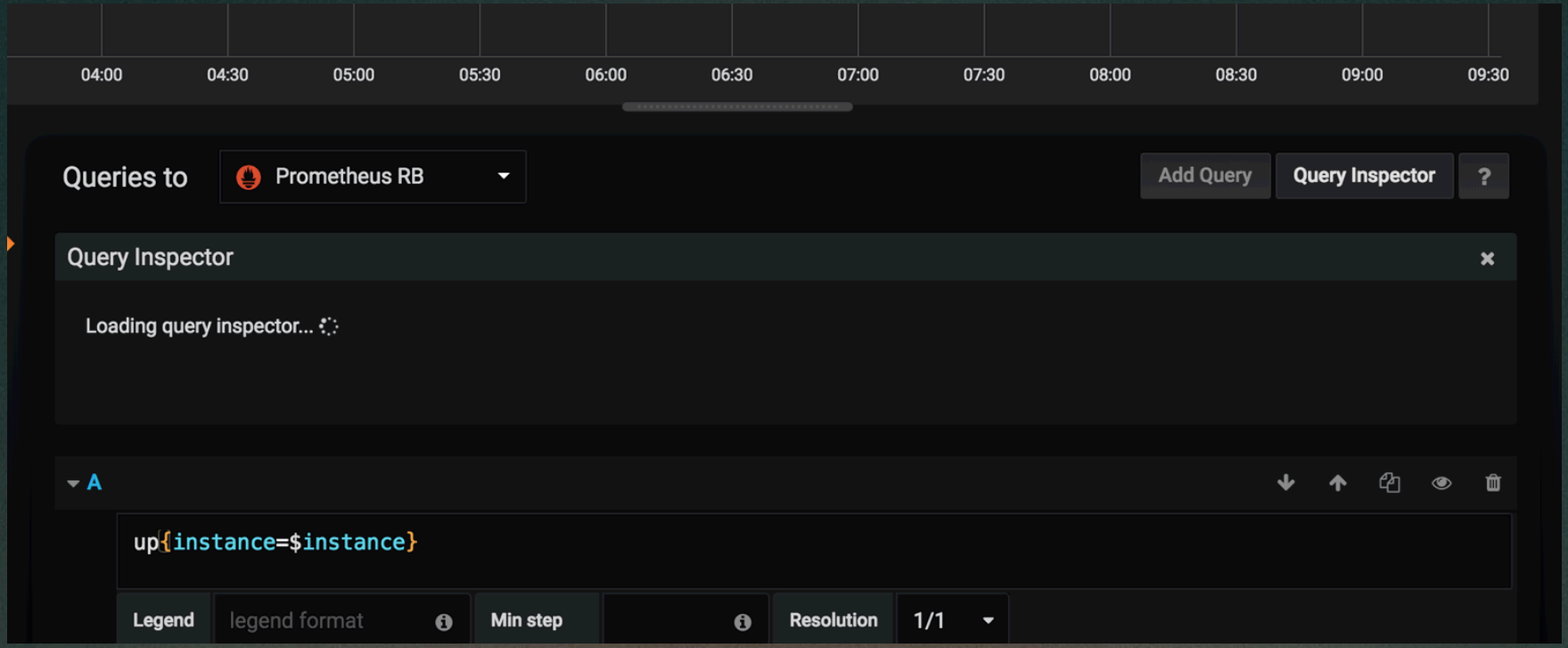


Debug tooling:
Data Source settings test

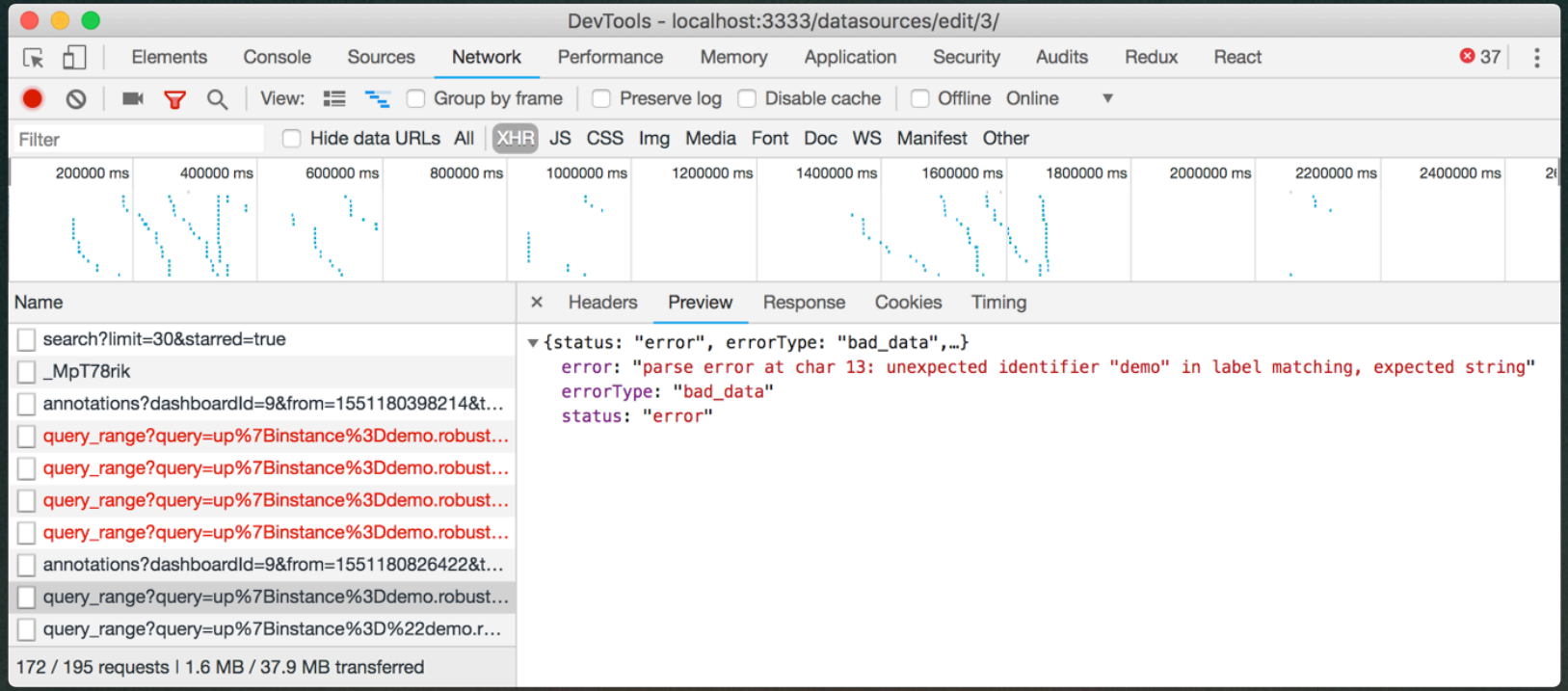
Debug tooling: Query Inspector



Debug tooling: Query Inspector and beyond

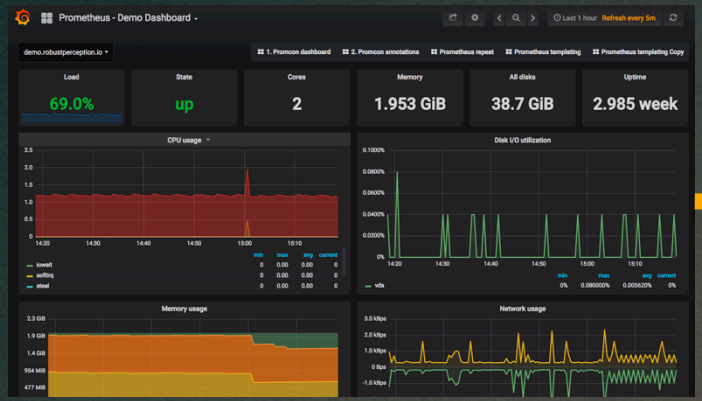


Debug tooling: Chrome dev tools

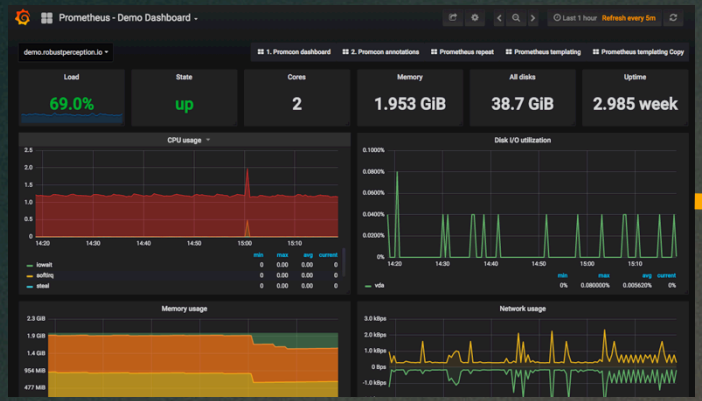


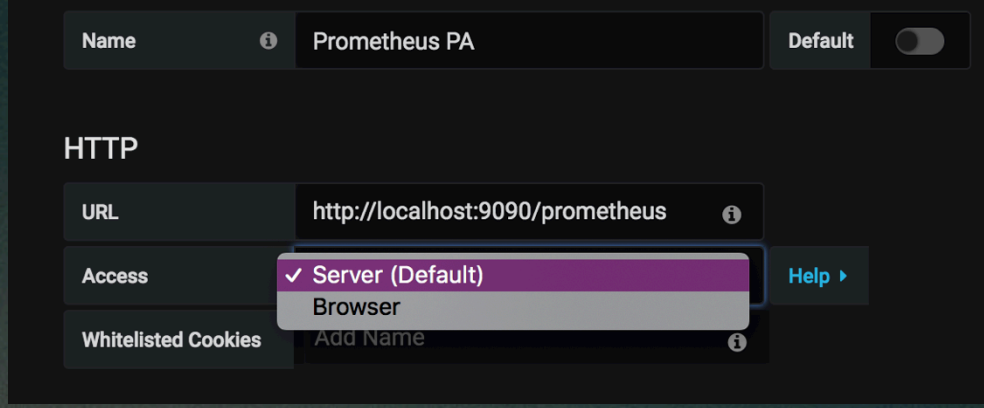
My graphs are too slow!

Understanding latency



Understanding latency

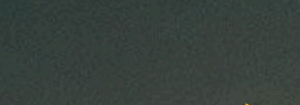




Understanding latency w/ server

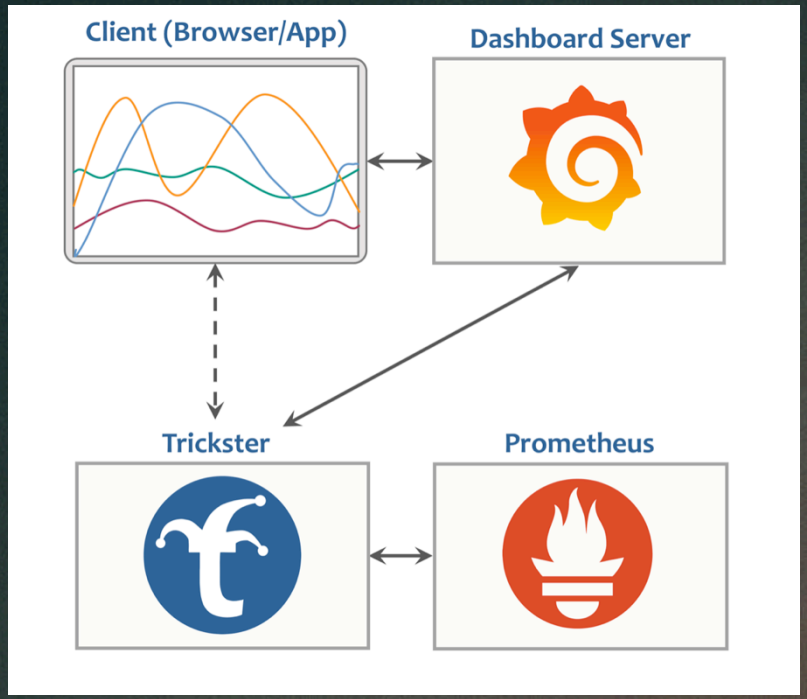
Request latency with dev tools

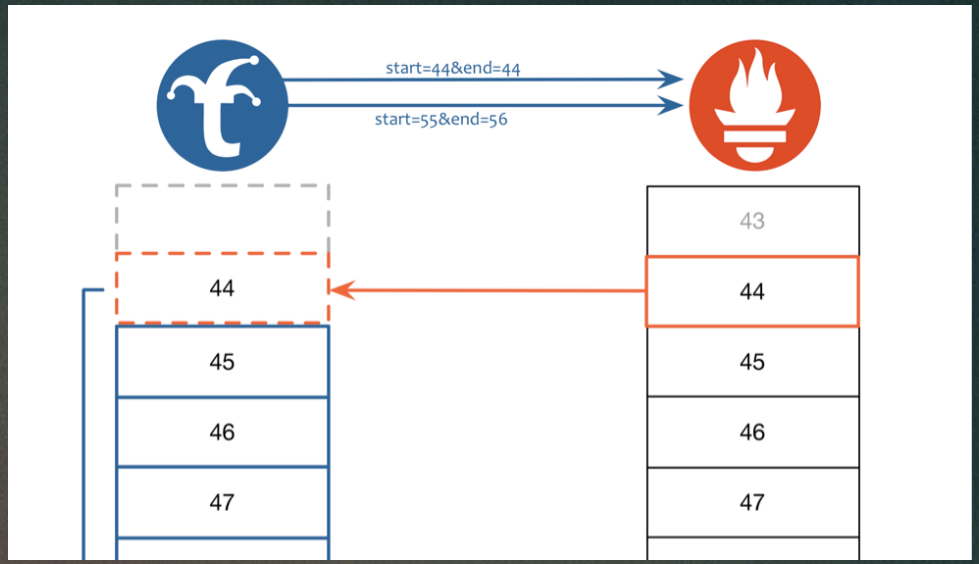
Network latency vs ds latency vs plotting latency



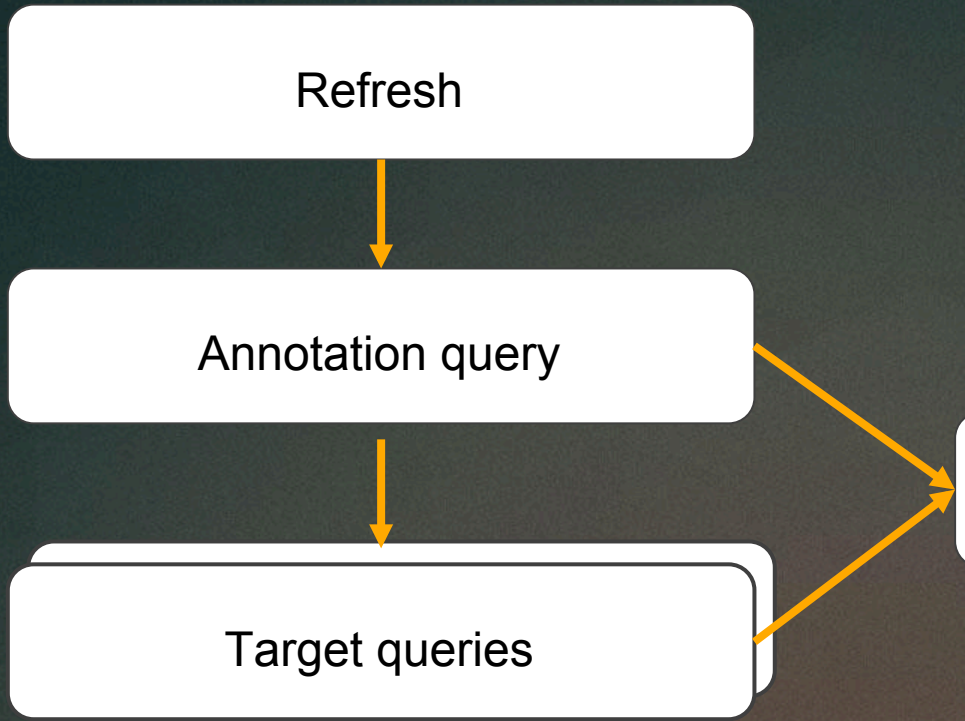
http://localhost:3333/explore

Intermission: Trickster, a reverse proxy cache





Graph panel requests: queries wait for all



Lesson: Queries wait for annotations

Lesson: Split queries over panels to see results sooner.

Lesson: Tweaks with little impact

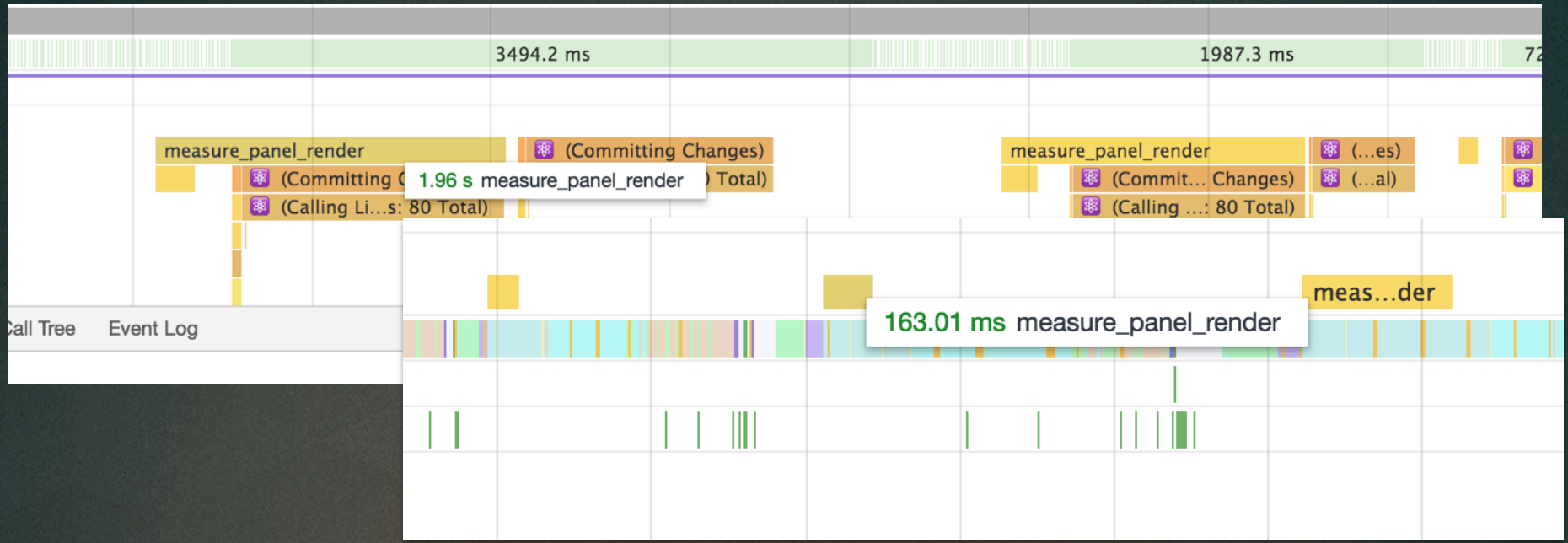
- Time range
  - Effect on data source latency/has to load more data
  - Some data sources have explicit step parameter for resolution
  - Limited effect on render times because data is sampled down

Lesson: Tweaks with more impact

- Query limits that reduce number of time series
  - Graphs render times are similar: everything is rendered on canvas
  - BUT: legend items are expensive

Lesson: high impact tweak

- Hide legend items (rely on hover instead)



THANKS!

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