



Other ops

- Recover Formula
- Explain Row/Cell
- Model Feedback
- Blame
- Retrieve Coords

Other Ideas

- Version Graph → ~~VizTrails~~
- Materialization → Below GProM + Visual Hints
- Degrees of Blame
- Summarization → GProM
- Outlier Detection → Mimir
- Formula Adaptation

Responsibilities of Each Layer

<u>Vizier</u>	<u>VizTrails</u>	<u>Mimir</u>	<u>GProM</u>
- Spreadsheet UI	- Version Graph	- Managing Curston Models	- Blame
- VizUAL	- Notebook Provenance	- Explain	- Summarization
- Notebook UI	- Workflow Scheduling	- Ranking	- Blame - Instrumented Query
			- Provenance Tokens