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crowdLabs: A provenance enabled web repository

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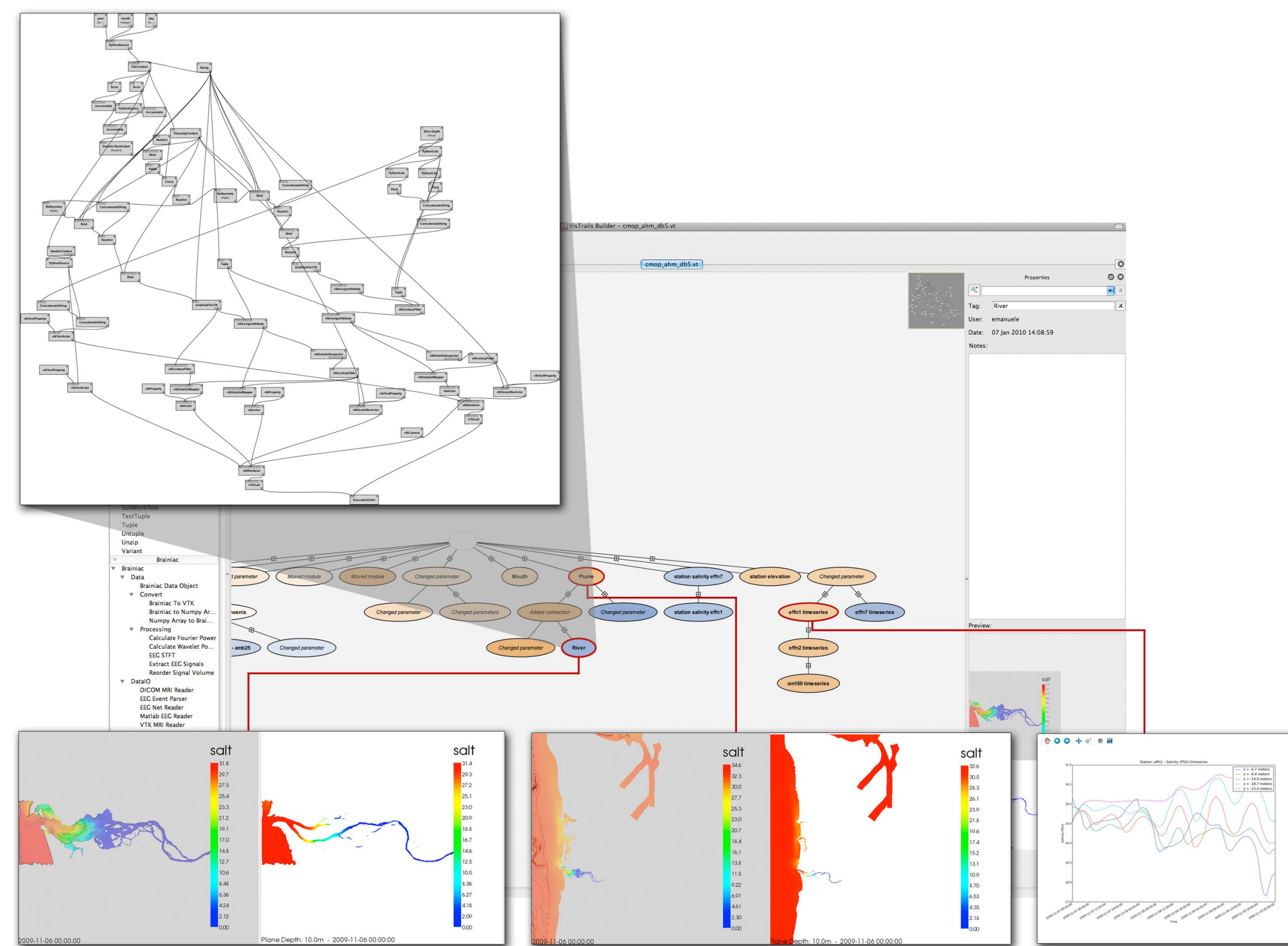
THE UNIVERSITY OF UTAH



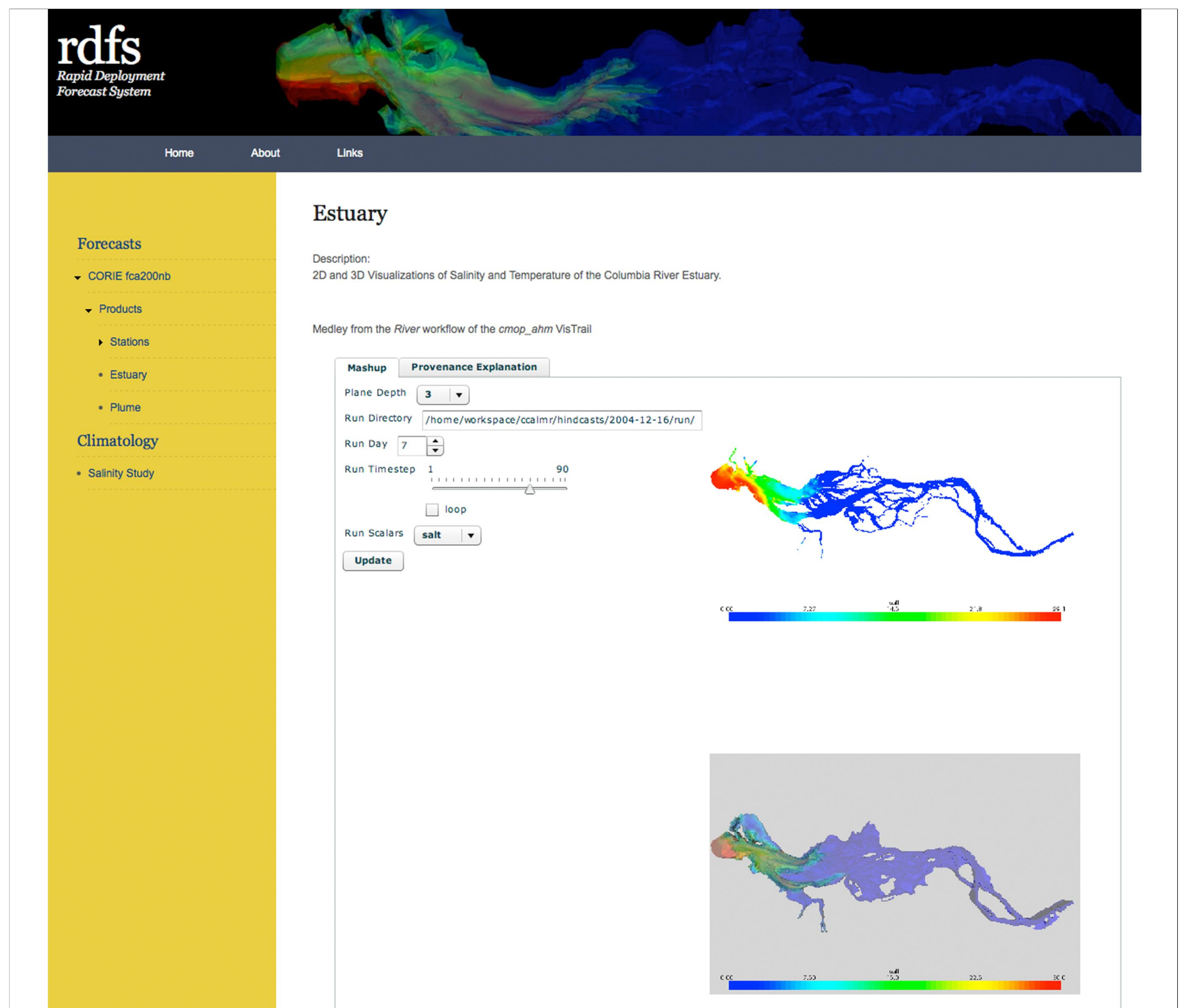
CMOP
Center for Coastal
Margin Observation
& Prediction

The NSF Science and Technology Center for Coastal Margin Observation & Prediction (CMOP) is a multi-institutional center dedicated to coastal margins, which are regions consisting of very productive ecosystems that play an important role in global elemental cycles. CMOP maintains the Science and Technology University Research Network (SATURN) observatory, a network of heterogeneous observation platforms coupled with large-scale simulation models of ocean circulation. Each of these platforms consist of multiple sensors, which have the potential to generate over a million measurements in the course of a couple of days.

Analysis and visualization of the coastal margin data is a specialized task that requires a large investment of time. Visualization experts build complex visualization workflows, which are difficult for scientists, policy makers, and students to interact with. In order to enable scientists to effectively perform their own analyses, and to create and publish new data products, we need to simplify authorship and customization of these analysis and visualization tools, and try to minimize the need for the intervention of visualization experts.



The VisTrails scientific workflow and provenance management system



RDFS (Rapid Deployment Forecast System) web site serving an interactive visualization of salinity and temperature for the Columbia River Estuary

crowdLabs allows users to share visualization workflows. The community can then rate, discuss, tag, and download their peers' work.

crowdLabs users can band together into groups to hold discussions and share work

crowdLabs

a public online visualization repository that leverages VisTrails and Web 2.0 in order to facilitate inter-disciplinary collaboration and sponsor community growth

- Supports the VisTrails scientific workflow and provenance system
- Provenance-enabled: explore and build from your peers' work
- Web 2.0: rate, tag, discuss, blog, and write wikis
- User-created content: download, remix, and upload visualizations
- Interactive: explore visualizations from within a web browser

