



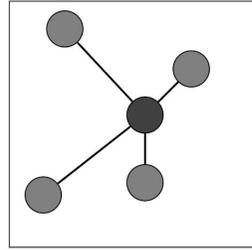
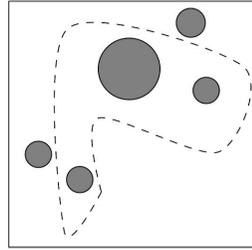
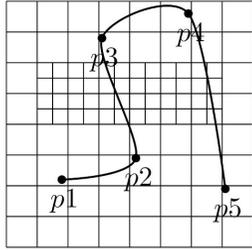
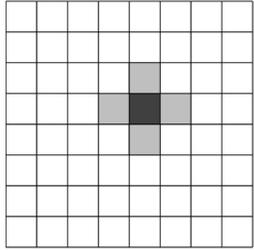
SI2-SSI: Inquiry-Focused Volumetric Data Analysis Across Scientific Domains

PI: Matthew Turk¹, Co-Pis: Ben Holtzman², Leigh Orf³

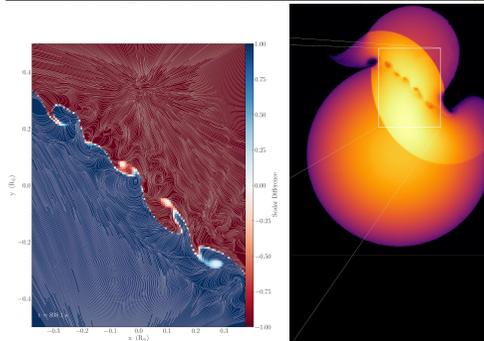
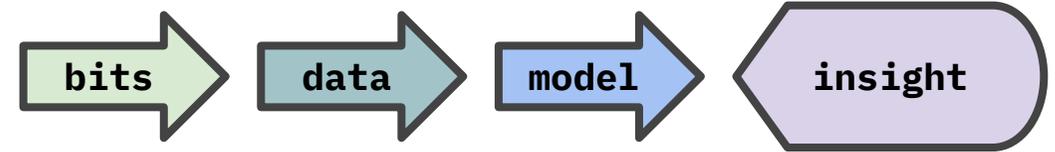
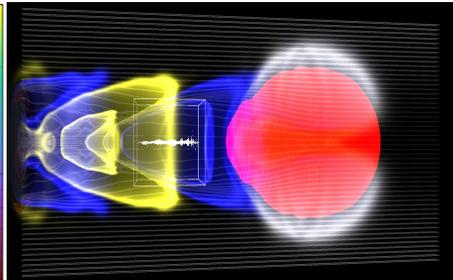
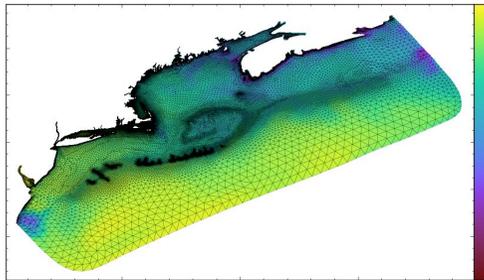
Institutions: ¹ University of Illinois at Urbana-Champaign, ² Columbia University, ³ University of Wisconsin



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- Context-aware platform centered on data analysis tasks
- Supporting strengths in astrophysics while forging domain agnosticity and expanding the platform's functionality
- Reducing cognitive load on scientists by transferring the power from the tool back to the process of inquiry



Images, clockwise from top left, by: Myers; Amorim, & Thévenet; Mullen & Gammie

- Python, Cython, MPI and OpenMP
- 100+ contributors, used in 600+ papers
- Support for dozens of bespoke and commodity file formats
- Discrete, regular and unstructured data
- Connected with projects throughout SI2 and PyData
- Intent on *growing the yt community* (yt-project.org)