The Pulling Paradigm: the Future of Visualization, Preservation and Collaboration
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Traditional 'Pushing' Approach


Data is **pushed** through based on **availability**.
Limits the power of the scientist. Results in unnecessary data creation.

Visualization

Preservation

Collaboration

Most effort spent **handling** the data!

Difficult to track relationships of data

Manual, unreliable, incomplete

Query-Driven 'Pulling' Approach


Data is **pulled** through based on **demand**.
Maximizes power of the scientist. Backwards compatible with pushing.

Visualization

Preservation

Collaboration

Most effort spent **doing** the analysis!

Backup **raws, database & code** to preserve data, lineage & knowledge

Automatic, complete, correct sharing of data, knowledge & annotation

http://www.astro-wise.org