

CONVERGENCE OF IDEAS WHOSE TIME HAD COME

- The Internet as a Telescope (Jim Gray and Alex Szalay)
- A tool for interactive narrative story telling (Curtis Wong)
- A multi-spectral infinite zoomable browser (Jonathan Fay)
- Taggable astronomy data and distribution of tagged images (AVM VAMP)
- Many visualization tools and techniques shared thru the AstroViz conference

JIM AND ALEX WORKING ON SDSS DATABASE



CURTIS WORKING ON STORY TELLING TOOL



JONATHAN WORKING ON TILED DISPLAY ENGINES

- 3D Visualization for Earth for TerraServer in 1999
- Moon and Mars explorer shortly after
- Wanted to map 360 sky map... just took about 10 years longer than hoped

BUILDING TEAM TO MAKE IT HAPPEN

- Many folks from AstroViz conference but resources together
- Help from universities, researchers, planetariums and many more
- Pulled in data and visualization ideas from many interested parties



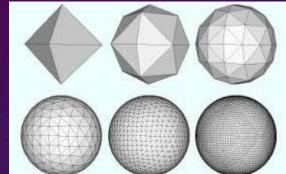
JIM GRAY AND HIS LEGACY

 The desire to see Jim's dream led Microsoft to invest in the project and rename it WorldWide Telescope in his honor. The funding lasted for more than a decade.

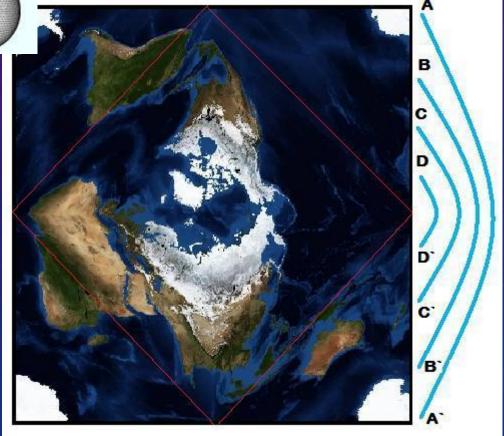
PROBLEMS TO SOLVE

- Needed a new intermediate projection to show all sky and all planet views without singularity.
- Needed a high-resolution all-sky panorama in visible light as well as usable panoramas for all other bands.
- Needed an authoring and playback environment for story telling.
- Needed standard ways of exchanging data.
- Needed solution for WCS Encoding data and tagging press-quality images.

TOAST



- Allows square flat tile set to be projected as spherical image in 3d
- Similar to SDSS indexing coverage tiles



LAUNCH AT TED IN 2008. GREW FROM THERE

- First shown to the public, then released as a free tool for everyone.
- Several feature and data releases happened regularly for 8 years

MILESTONES IN REACH

- Added support for VO protocols and interoperability. SAMP, VO Table, etc.
- Added support for full dome planetarium display
- Added support for KIOSK displays and other automation
- Created Web version to enable broad access to data from any device

TRANSITION TO AAS AND .NET FOUNDATION

- After organization shifts at Microsoft Research it was decided to move WWT to open source and find a new development owner
- The .NET foundation was chosen for open source owner for the project code
- AAS was given the project management and development role in continuing to develop and promote WWT.