

21-st Century Research: Tools, Trends, and Transformation

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Abstract: By highlighting some new technologies and trends (such as WorldWide Telescope, the sharing of visualization and analysis techniques between seemingly disparate fields like Astronomy and Medicine, and new online research, data-mining and collaboration tools), I will speculate on the transformation in the participation in and pace of research to come.

Intro (AG [website](#), [projects](#))

[Seamless Astronomy](#)

WorldWide Telescope ([demo](#))

[AstroMed](#) (slides/demo)

[3DPDF](#) ([Nature](#) 2009 or [YouTube](#))

[DendroViz](#)(Glue) ([video demo](#))

ADSLabs ([demo](#))

ADSASS (example from [proposal](#))

MSR e-Science “Transformers” (2011) site ([show](#))

Paris 2011 “Seeing Science” slides as [PDF](#) or Keynote