Case Study II: ImageVis3D as a Teaching Tool for Tomorrow's Scientists

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ImageVis3D

- Data exploration through volume rendering
- Out of core
  - “Bricking”
- Interactive performance
  - Advanced scheduling
  - Caching algorithms
- Transfer functions
1D Transfer Functions
2D Transfer Functions
ImageVis3D – in action
As a Teaching Tool
Today’s Tools – Tomorrow’s Scientists:

- https://vimeo.com/77005863
Future Work

- Improved rendering performance
- Dynamic re-bricking
- Client/server rendering
- Region-based statistics

Mandelbulb