



iBook on 3D+ Visualization

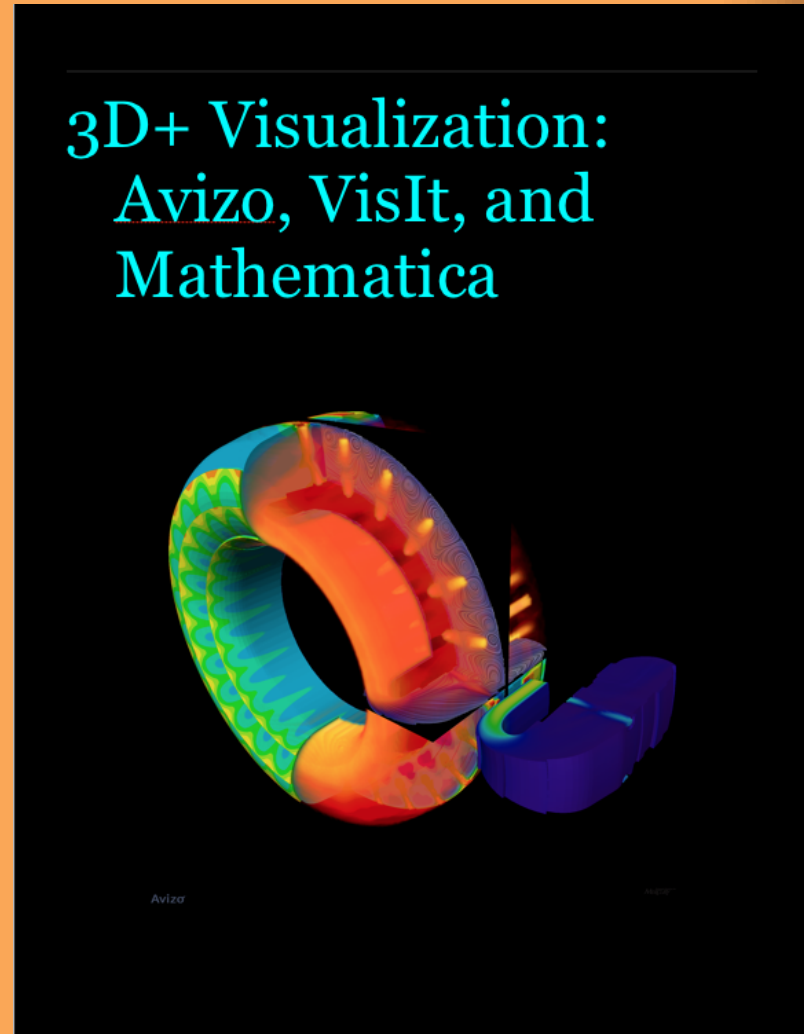


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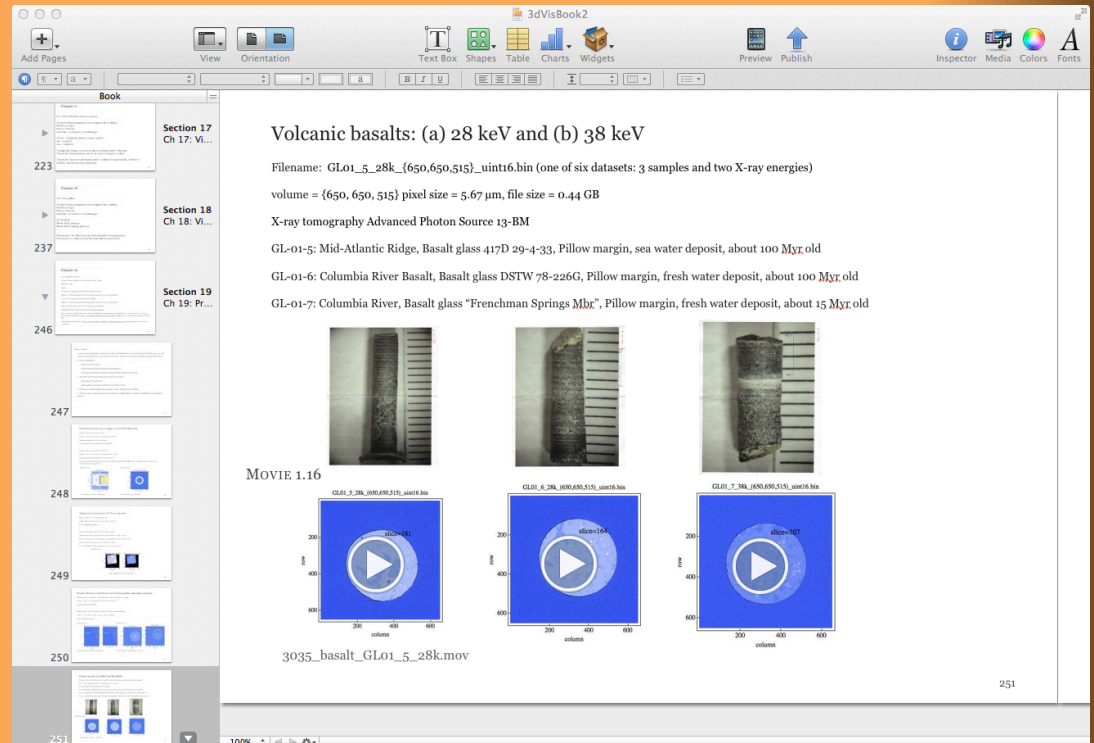
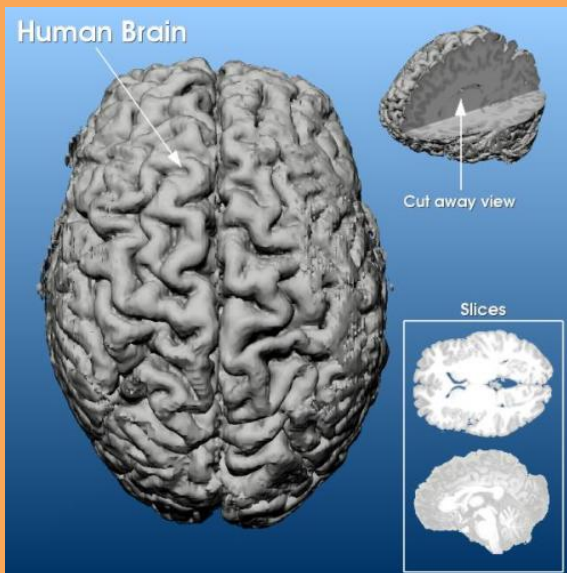
Motivation

Advanced technology will lead to new and improved teaching methods

- Lightweight and easy to use for students
- Easy to edit and update for professors
- Use of HD videos, pictures, tutorials, etc.
- Create more student interaction with material and data with the help of HPC
- Still new! More possibilities being explored

3D+ Visualization

- imageJ
- Mathematica
- Avizo
- VisIt
- iBooks Author

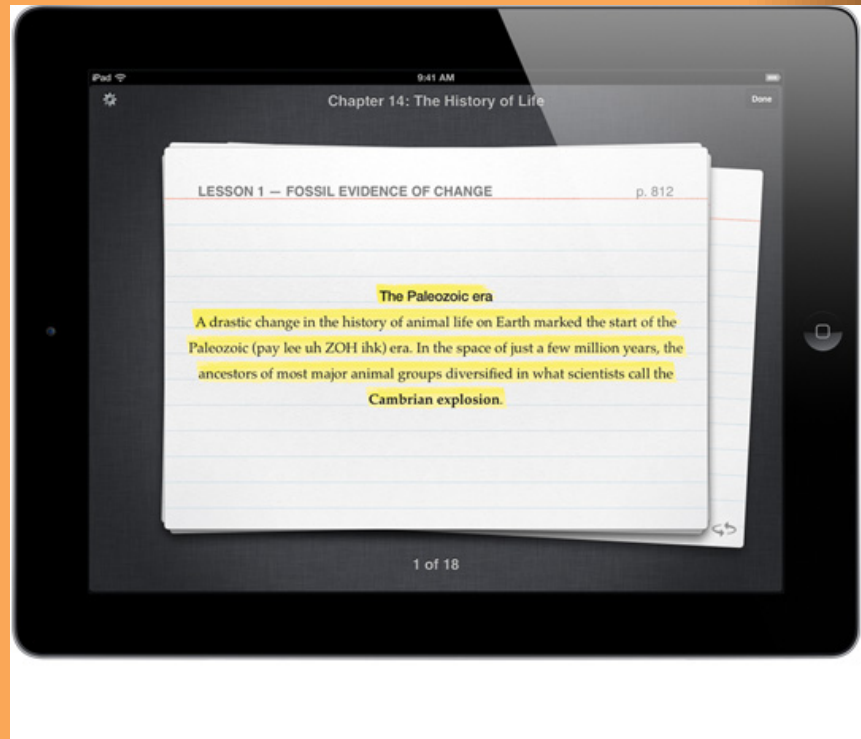
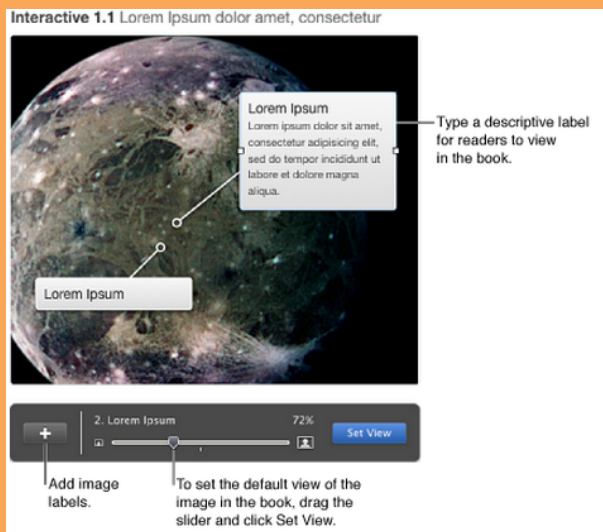


Above: a screenshot of a page within iBooks Author of the 3D+ Visualization book

Left: a few views of the human brain made from VisIt

iBooks Author Features

- Easy use
- Movies
- Image Galleries
- Interactive Images
- Study Cards



iBooks Author Widgets

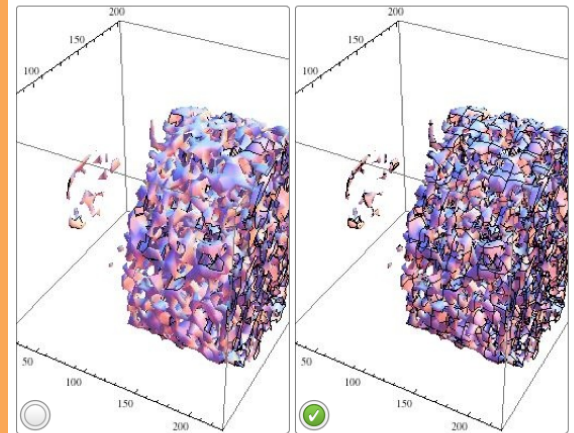
- Quizzes
- 3D Images
- HTML
- Twitter*
- Live Polls*



Question 4 of 5
What output would this command display:
`Position[{1 + x^2, 5, x^4, a + (1 + x^2)^2}, x^_]`

- A. `{{1, 2}, {3}, {4, 2, 2}}`
- B. `{1, 2}`
- C. `{1, 2, 3}`
- D. `{{1, 2}, {3}, {4, 2, 1, 2}}`

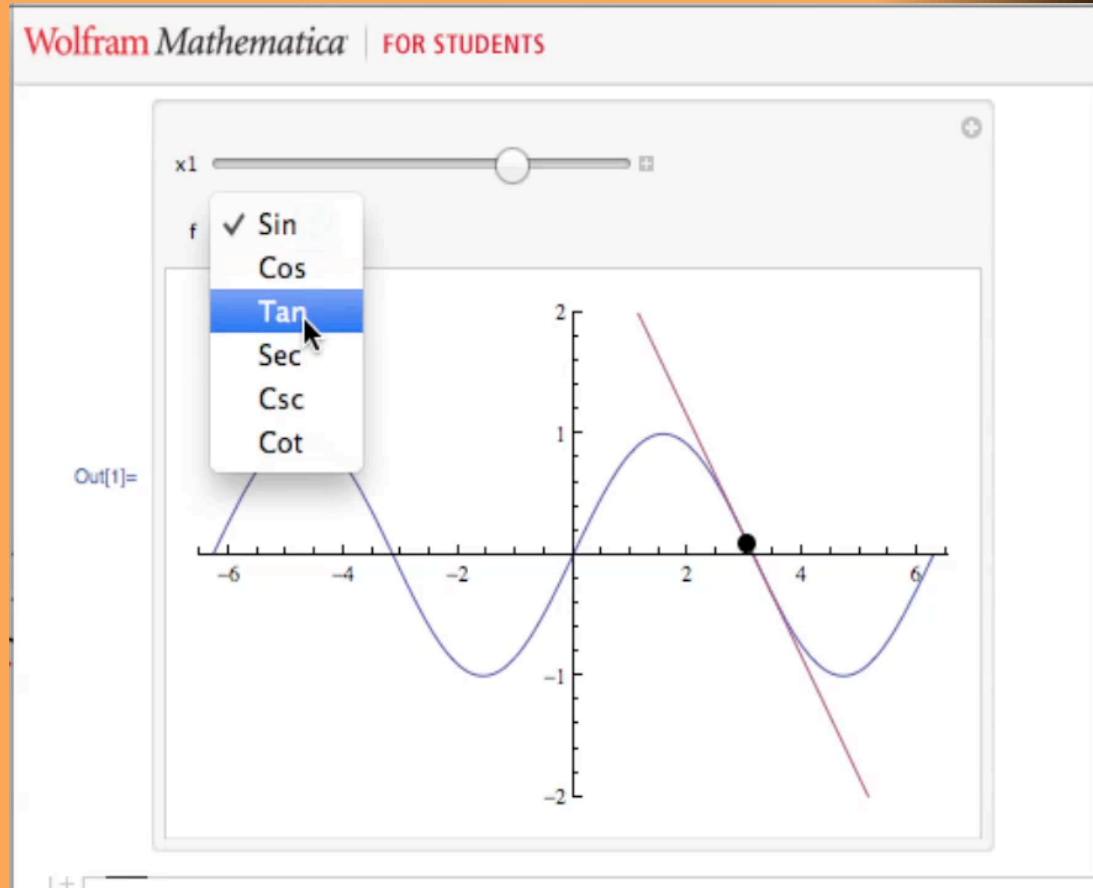
Question 1 of 5
Which image will the following command generate:
`ListContourPlot3D[volume, Contours -> {0.02},
MaxPlotPoints -> 50,
PerformanceGoal -> "Quality"]`



Check Answer

Future Interactivity

- HPC backing on the way
- Use of HTML widget allows for significant user interaction with book



Thank you all for your attention.

Questions?

Special thanks to Dr. Butler, LSU, LA-SiGMA, NSF, and all who helped making this experience possible.

This material is based upon work supported by the National Science Foundation under the NSF EPSCoR Cooperative Agreement No. EPS-1003897 with additional support from the Louisiana Board of Regents