





<https://www.youtube.com/playlist?list=PLYx7XA2nY5Gf37zYZMw6OqGFRPjB1jCy6>

Altair



Visualization in Python: Pain

- Visualization is a persistent and significant source of user pain
 - "I have been using Matplotlib for a decade now, and I still have to look most things up"
 - "I love Python, but do my visualizations using R/ggplot2"
- Sparse handling of *statistical* visualization, categorical data, date/time data
- Users have to write code, even for incidental aspects of visualizations
- New (and experienced) users have to track and learn all of these libraries and make decisions about what library to use for a given task
- Many of the most basic things are still horribly complicated :(



SciPy 2016

HPC



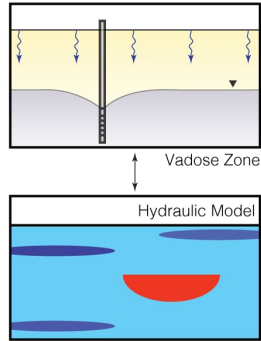
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Jupyter Lab

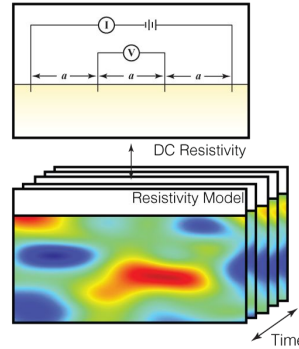


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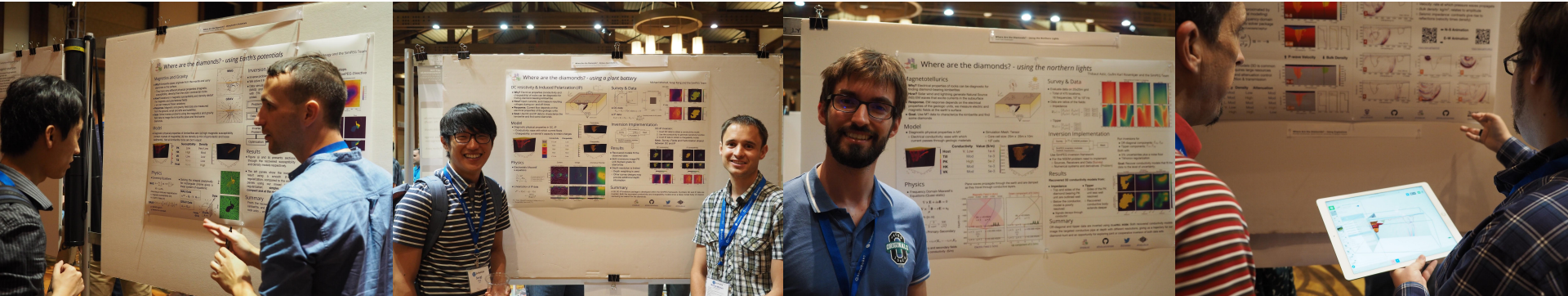
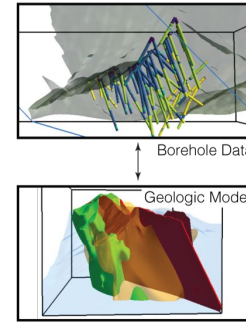
Hydrogeology



Geophysics



Geology





Seismic imaging & inversion
...are the dia

Physics

- Shear strain relations
- Elastic wave equation approx
- 2D vs 3D wave equation approx
- Sim
- For
- Z



SciPy2016
John

anagram.py



<https://www.youtube.com/watch?v=g15QeR5-Xkk&feature=youtu.be&list=PLYx7XA2nY5Gf37zYZMw6OqGFRPjB1jCy6&t=845>

<https://github.com/bsmithyman/anagram>