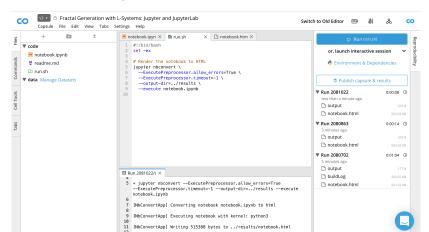
Code Ocean: publishing notebooks reproducibly

Seth Green

November 13, 2018

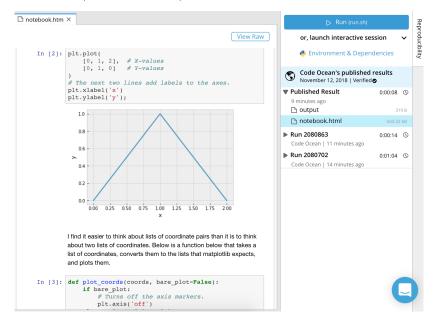
Code Ocean

- Code Ocean is, more or less:
 - JupyterLab IDE + modifications
 - A robust dependency management system
 - ► A publishing platform (DOIs & stable URLs)
 - A sharing platform (embed your 'compute capsules' on webpages)



Publishing reproducible Jupyter Notebooks

Notebook + environment + nbconvert = a rendered HTML



Interactive sessions

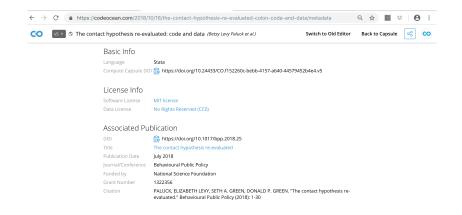
https://codeocean.com/2018/11/13/fractal-generation-with-l-systems-colon-jupyter-and-jupyterlab/code

- Jupyter
- JupyterLab
- ► Time for a live demonstration

Questions?

- How is this different than Binder?
- What is the uploading process like?
- ▶ How are dependencies managed?
- Is this exportable?

Reference Slide 1: Publishing on Code Ocean:



Reference Slide 2: Embedding on webpages & within articles

You can also embed your published capsule in your article's HTML page or on your personal webpage, a la https://ieeexplore.ieee.org/document/8410389/algorithms#

