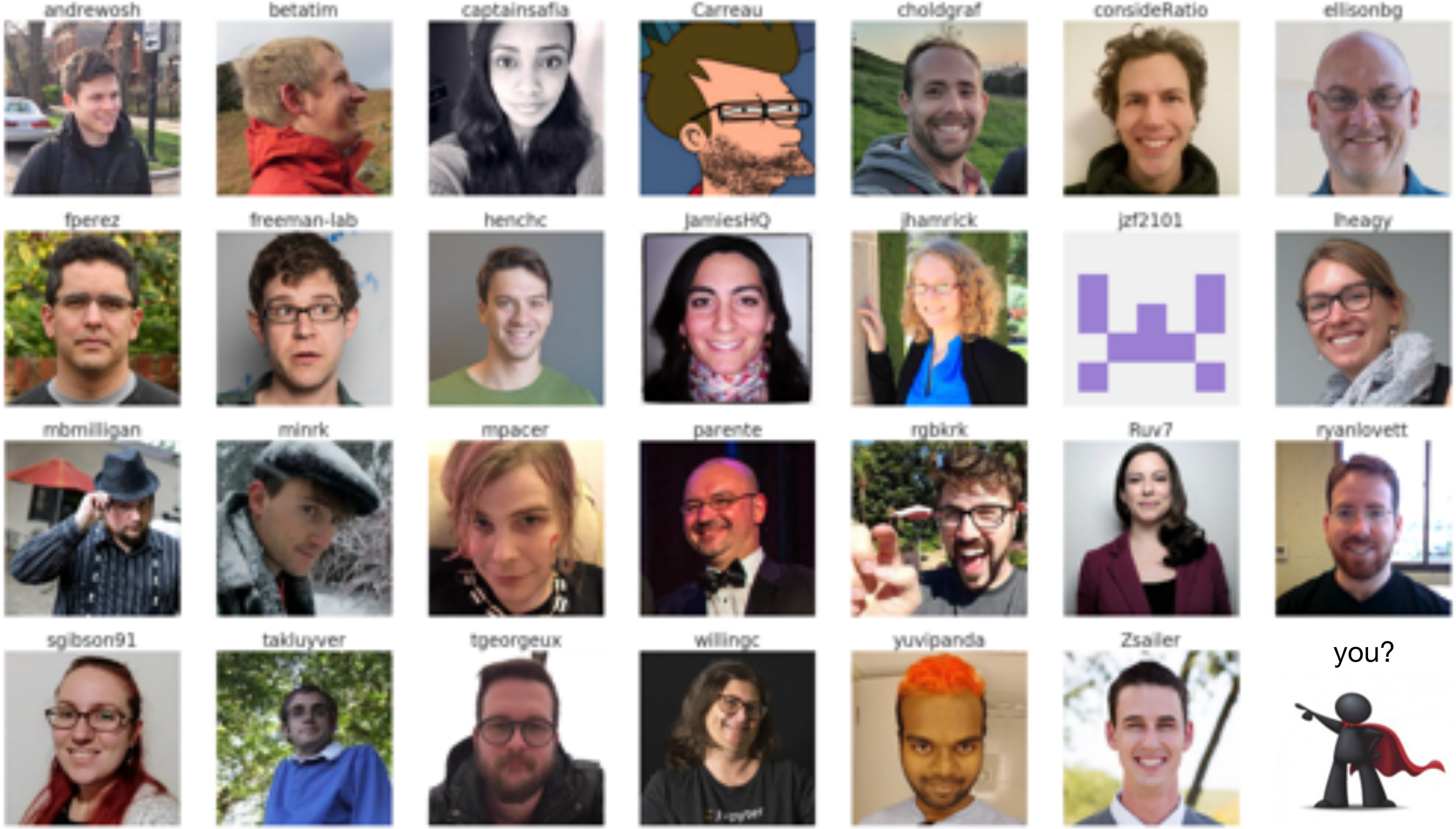
Reproducible Computation made easy

mybinder.org

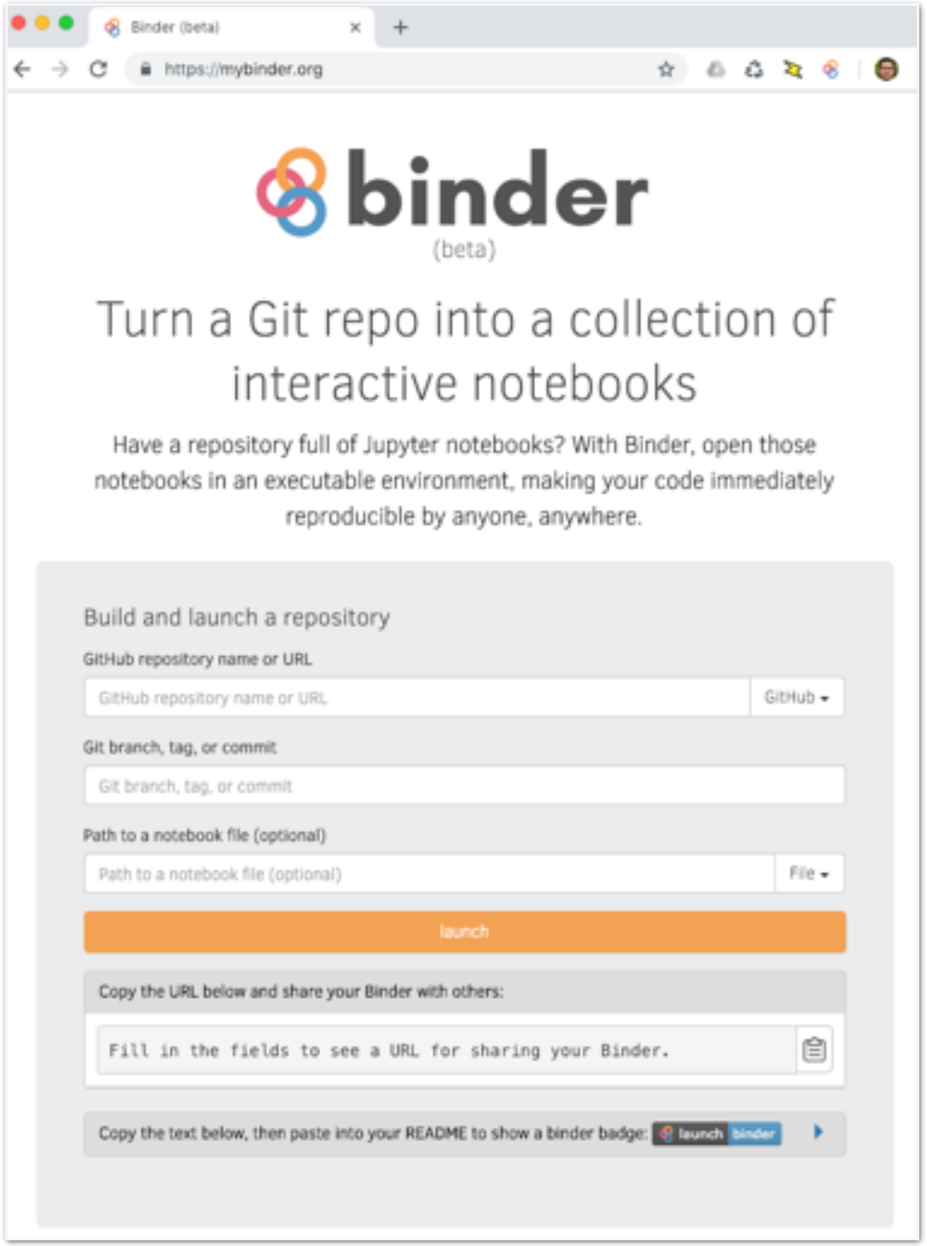

andrewosh
betatim
captainsafia
Carreau
choldgraf
consideRatio
ellisonbg
fperez
freeman-lab
henchc
JamiesHQ
jhamrick
jzf2101
lheagy
mbmilligan
minrk
mpacer
parente
rgbkrk
Ruv7
ryanlovett
sgibson91
takluyver
tgeorgeux
willingc
yuvipanda
Zsailer
you?

Reproducible Research

An article about computational science in a scientific publication is **not** the scholarship itself, it is merely **advertising** of the scholarship. The actual scholarship is the complete software development environment and the complete set of instructions which generated the figures.

Buckheit and Donoho, WaveLab and Reproducible Research, ***1995***

mybinder.org: shareable reproducibility



jupyter

GitHub

+

Explicit Dependencies

+

docker

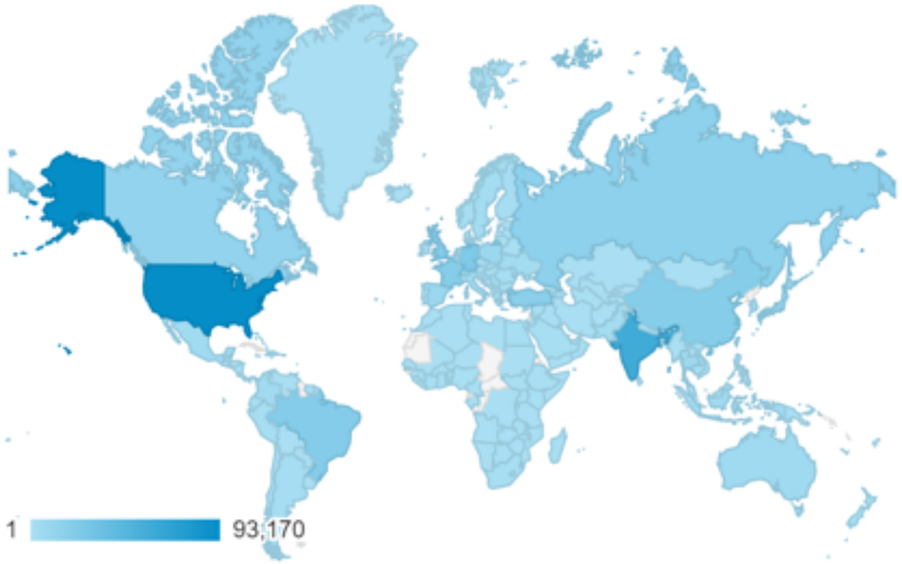
kubernetes

Origins

CHAN ZUCKERBERG INITIATIVE

github.com/freeman-lab

Weekly Binder users, Jan 1 to Dec 1 2018 (~350k/month)



Binder users, November 2018

GORDON AND BETTY MOORE FOUNDATION

Google

OVH Innovation for Freedom

Geoscience Educational Interactive Materials

GeoSci Labs

launch binder | Azure Notebooks launch | pypi v0.1.1 | build passing | license MIT | powered by SimPEG

This is a repository of code used to power the notebooks and interactive examples for https://em.geosci.xyz and https://gpg.geosci.xyz.

The examples are based on code available in SimPEG.

Why

Interactive visualizations are a powerful way to interrogate mathematical equations. The goal of this repository is to be the home for code that can be plugged into jupyter notebooks so that we can play with the governing equations of geophysical electromagnetics.

Scope

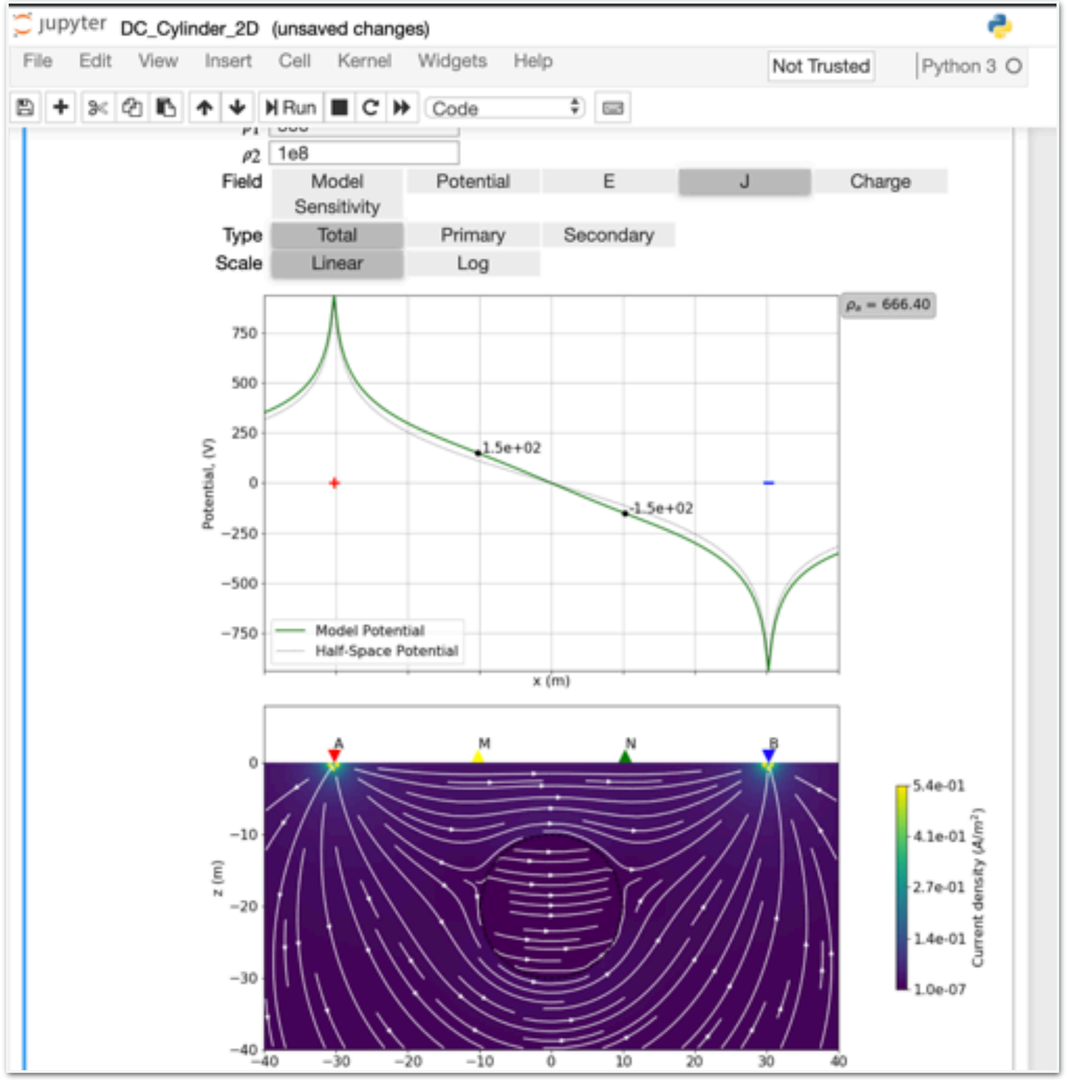
The repository contains the python code to run the ipython-widget style apps in http://github.com/geoscixyz/geosci-labs. These are mainly plotting code and some simple analytics. More complex numerical simulations depend on SimPEG

Usage

The notebooks can be run online through Binder, or downloaded and run locally.

Binder

launch binder



https://github.com/geoscixyz/geosci-labs