NUMFOCUS
OPEN CODE = BETTER SCIENCE

Building an Open Platform for Sustaining Data Science Innovation

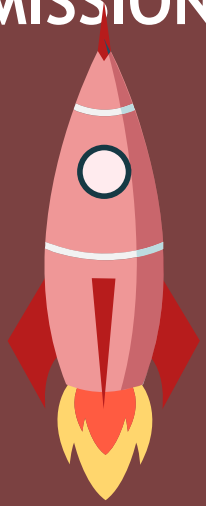
A Whirlwind Tour of NumFOCUS Projects

Presented by ANDY R TERREL, PHD
at SUPERCOMPUTING 18,
BOF - Software Engineering and Reuse in Computational Science and Engineering
on Nov 14, 2018

Promote sustainable high-level programming languages, open code development, and reproducible scientific research.

NUMFOCUS

WE ACCOMPLISH THIS MISSION.



EDUCATIONAL PROGRAMS
Scholarships, Diversity, Sustainabiilty

EVENTS
Conferences and Meetups

FISCAL SPONSORSHIP
Legal and Fiscal services

DATA SCIENCE AND SCIENTIFIC COMPUTING COMMUNITY
Common challenges and communication

Three rules of NumFOCUS

NUMFOCUS
OPEN CODE + BETTER SCIENCE

FIRST

BUILD TOOLS FOR SCIENCE

Yes, science happens everywhere. Corporations, laboratories, backyards, in trenches.

SECOND

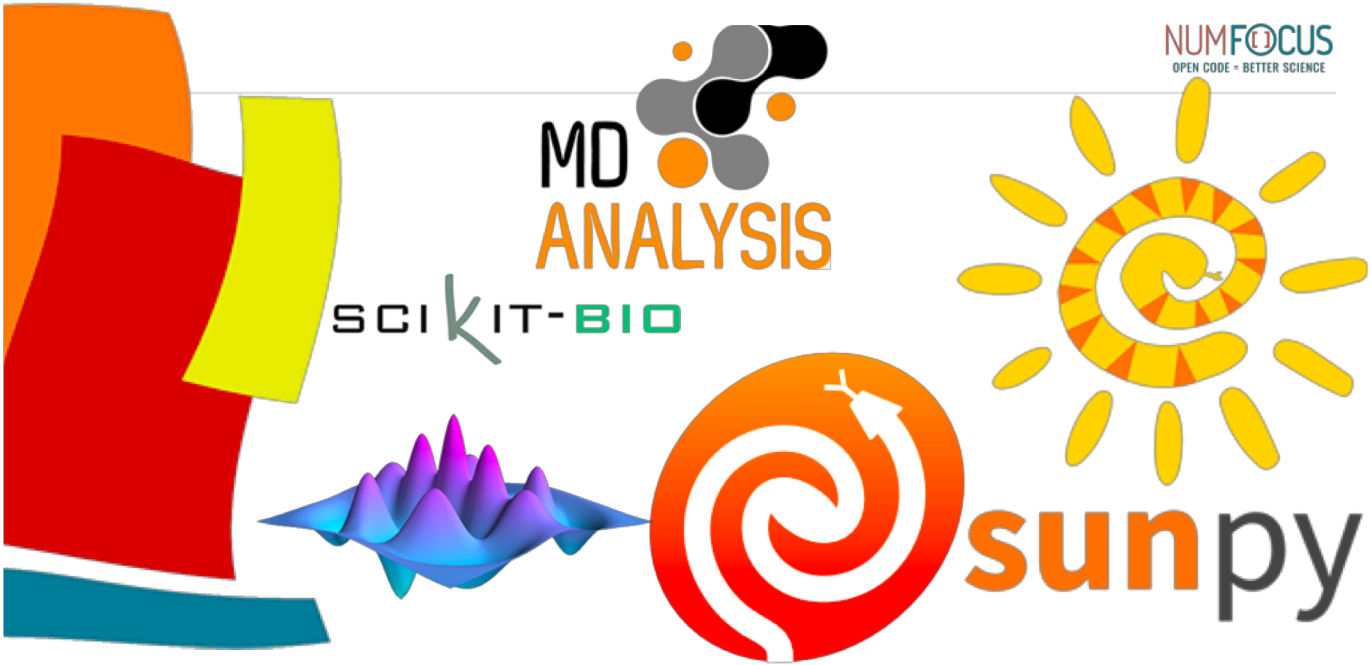
BE KIND TO EACH OTHER

Write down a code of conduct, tell the world how you make decisions, share your decisions

THIRD

LEAD OPENLY

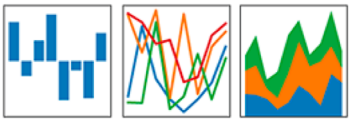
More than a license, but take comments in public, develop on an open platform, use best practices so all can see.

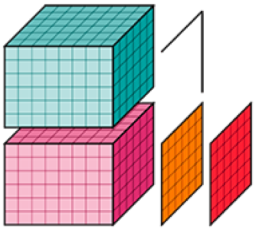


Domain Experience

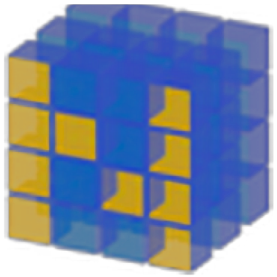
pandas

$$y_{it} = \beta' x_{it} + \mu_i + \epsilon_{it}$$

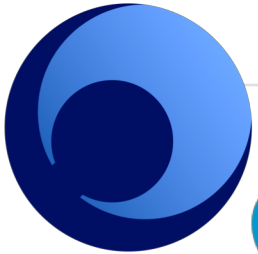


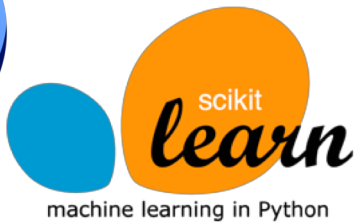


xarray



Data Wrangling



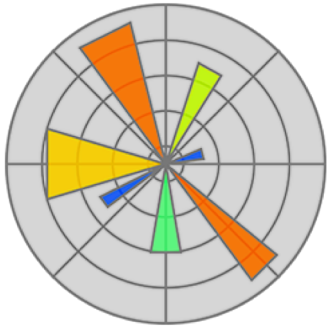


pomegranate

Econ ARK

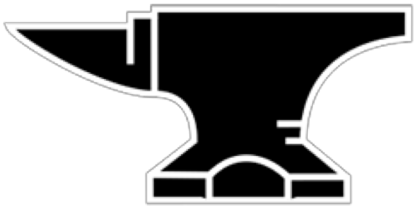
Modelling

Computation

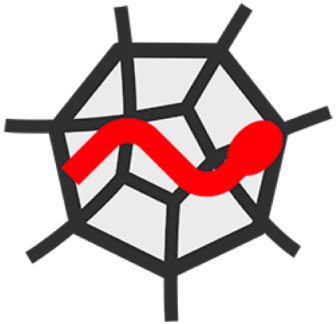


Visualize the Result

Share the Story



CONDA-FORGE



Tools to Build

The Ongoing Struggle