



# Snakes on a Spaceship: The Python Maneuver

## Possible Discussion Topics:

- Setting up a working environment?
- Advice on releasing a new package?
- Creation of a cohesive Python package for CEDAR?
- What tools are needed to address existing research needs?
  - Future tutorial ideas?



# Discussion Notes

- Tutorial for next year - Unit Tests – Layne Pedersen potentially volunteered
- Defining a sensible test interface
  - Can be iterated over quickly
  - But also covers things enough that you actually catch things
- Unit tests should be small enough that they should be somewhat obvious?
- No easy solution
- When you find a bug, write a test that catches the bug, then fix it
- Coveralls/line coverage to determine how much of your code is tested
- Alternatively, use students - EXCELLENT at finding bugs
- Modern python distributions are much better at not allowing you to do dangerous things
- How to get projects in PyHC - instructions are on website, then has to be approved by PyHC community
- “Got it to work” - feel free to ask if there WERE special steps that the user needed to be taken
  - Sometimes there are environment specific tricks that should be recorded in the documentation
- Issue reporting on GH - use templates to try to get people to only submit useful information
- Containerization - is this something we’ve considered moving towards
  - Everything you might need is self contained
  - Data is a challenging
  - Determining the set of what everyone actually needs is challenging
- Linux subsystem for Windows
  - Same rules apply - treat it like your main OS
- Different flavors of containerization?
  - Docker, something more barebones
  - Docker is still very popular