Please follow along:

tinyurl.com/dscov-napari

Introduction to the Napari Image Viewer

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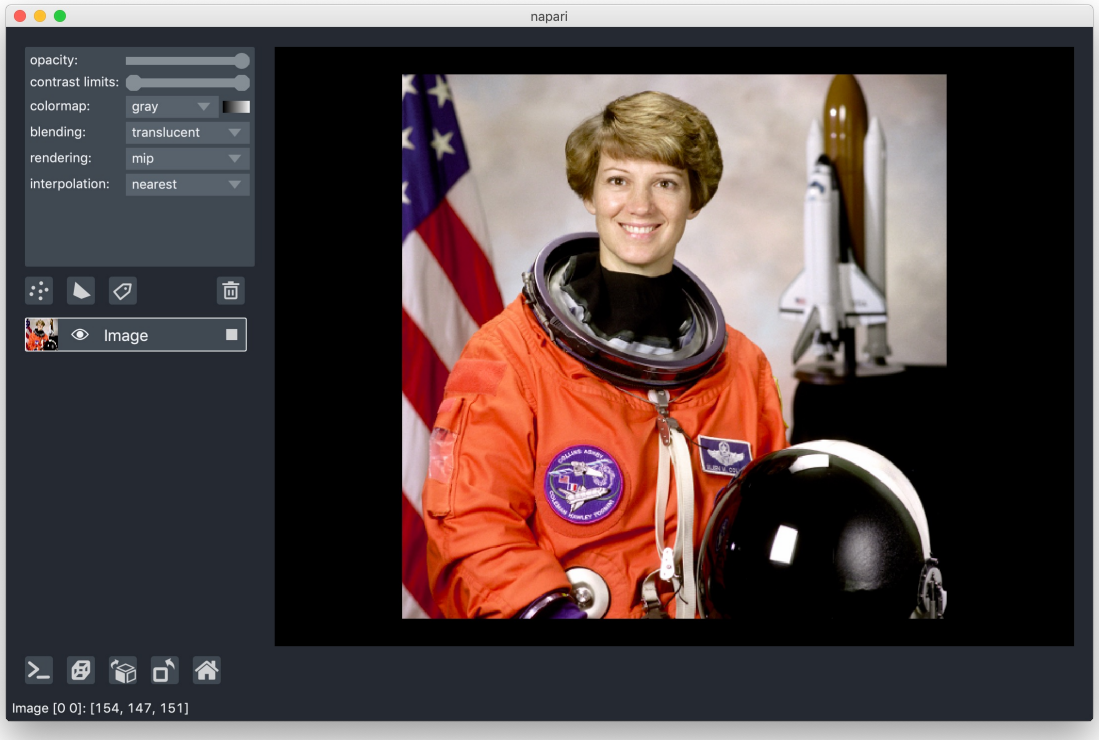
Nov. 4, 2022

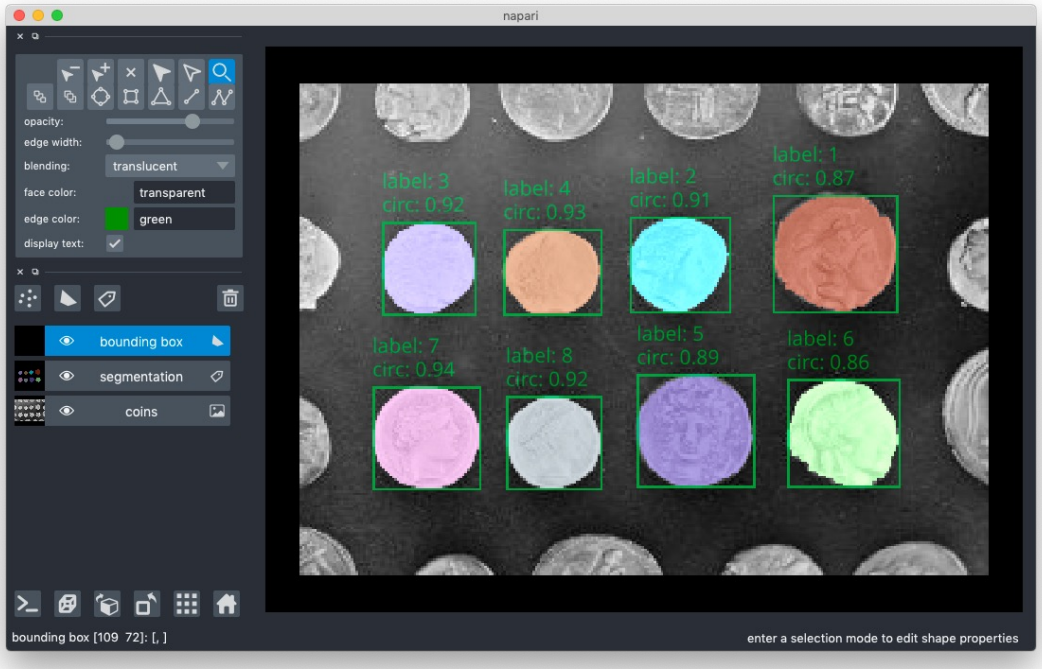
Plan for Today

- Overview
- Demo/Follow along
  - Loading multidimensional images
  - Adding layers
  - Customizing user interface
- Advanced features:
  - Dask/Zarr for large volumes
  - Plugins – Napari Hub



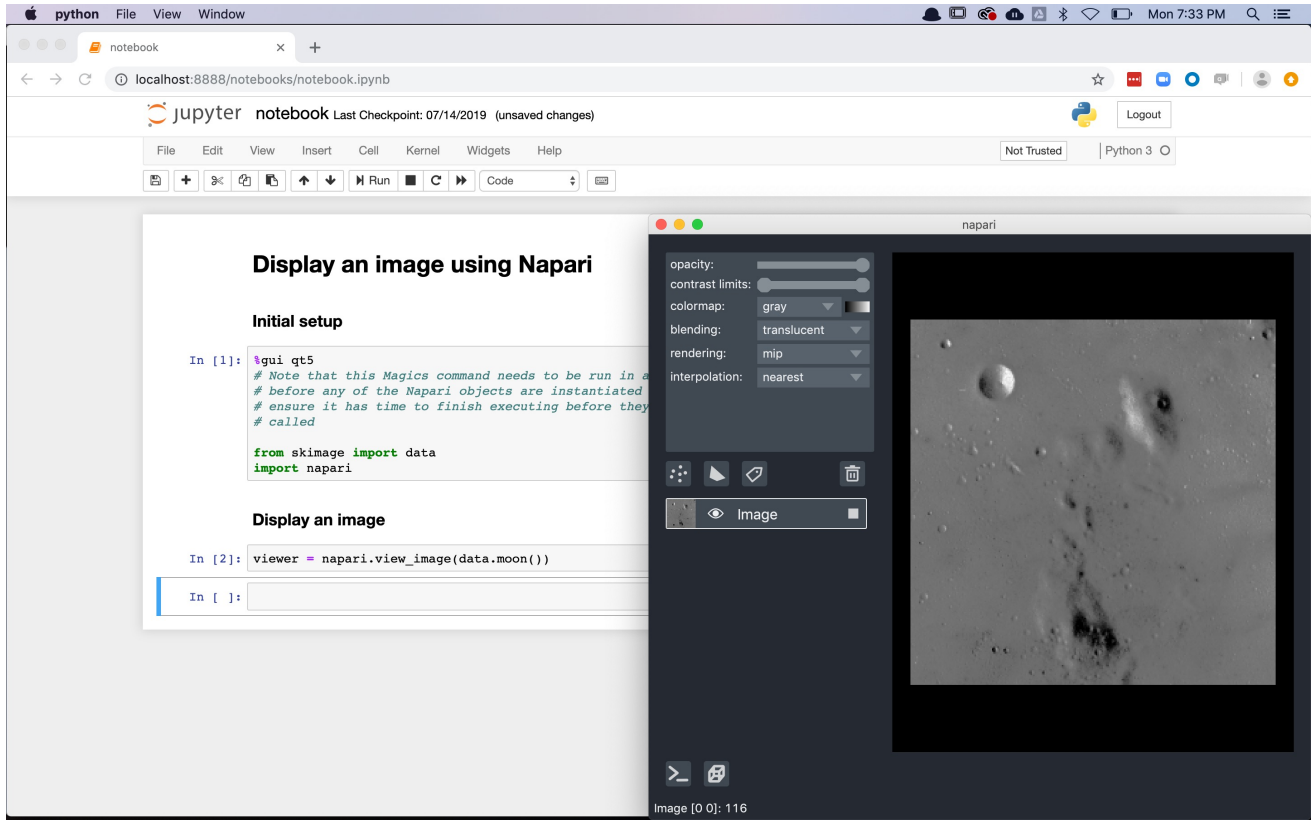
Why Napari?

- Programmable w/ Python
- Multidimensional image support (3D, 4D, 5D images)
- Fast: PyQT GUI, GPU support
- Support for layers
- Support for distributed, out-of-memory computing through dask and zarr
- Customizable interface, easy to add functionalities
- Extensible through plug-ins, Napari Hub



Using Napari

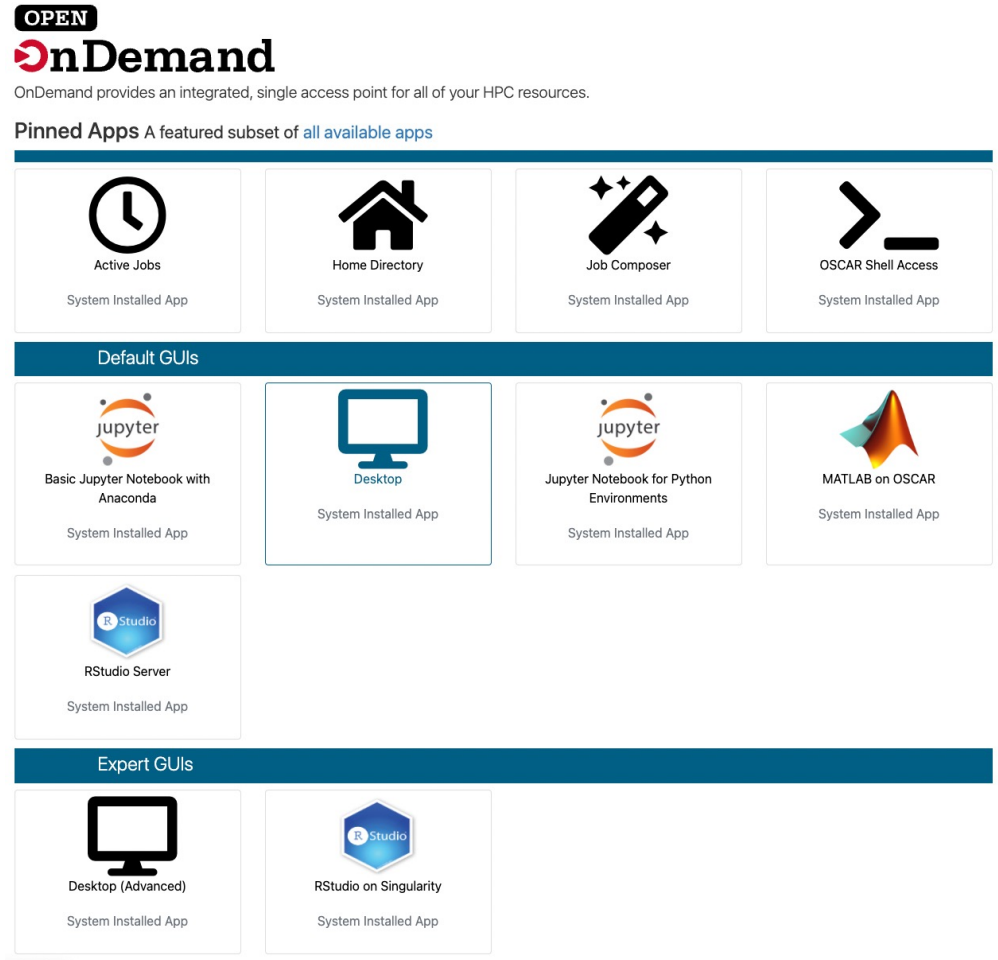
- Standalone App (all platforms)
- Python Script
- IPython/Jupyter



- Install with Anaconda or pip
- `conda install –c conda-forge napari`
- `pip install napari[all]`

Note on using Napari on Oscar

- Works:
  - VNC (deprecating soon)
  - Open OnDemand Desktop
- Not working:
  - command line
  - Open OnDemand Jupyter Notebooks



Follow along (Oscar):

All instruction available here!
tinyurl.com/dscov-napari

- Setup Open OnDemand Desktop:
  - Go to https://ood.ccv.brown.edu
  - Click on Desktop
  - Choose a GPU instance
  - Click Launch
- Setup dev environment
  - Clone this repo: https://github.com/brown-ccv/DSCoV-NapariWorkshop
  - In the repo directory, type `bash load_env.sh`
  - `conda activate /gpfs/runtime/opt/DSCoV_env`
  - Launch Jupyter notebook `jupyter notebook`
  - Open `demo.ipynb`