

May 17th HPC 101

Description

This entry level training will cover the basics of logging into the web portal, transferring files to and from the system, and launching an interactive Jupyter Notebook.

Sign Up

<https://forms.gle/VwYh8Mv77RJEuYyi7>

Sign up will be limited for this first session.

Prerequisites

- Your own [HPC Account](#)
- Ability to load the [OnDemand Portal](#) in your browser

Class Materials

Mandlebrot Set

```
import numpy as np
import matplotlib.pyplot as plt
from functools import reduce

%matplotlib inline

x, y = np.ogrid[-2:1:500j, -1.5:1.5:500j]

# Increase this to improve the shape of the fractal
iterations = 11

c = x + 1j*y

z = reduce(lambda x, y: x**2 + c, [1] * iterations, c)

plt.figure(figsize=(10, 10))
plt.imshow(np.angle(z));

plt.figure(figsize=(10, 10))
plt.imshow(np.log(np.abs(z)));
```



HPC101.pdf



titanic.csv

References

[Using the HPC Portal](#)

[Using Jupyter Notebook/Lab](#)