An Introduction to Parallel Programming in Python

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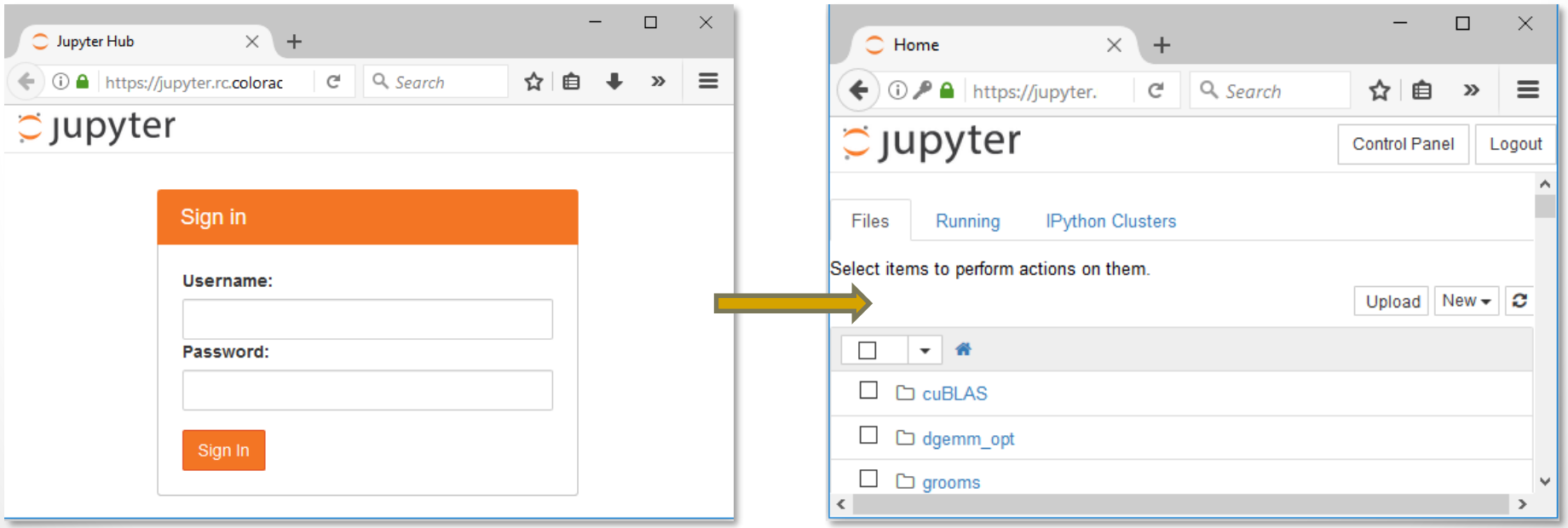
Web Link to These Slides

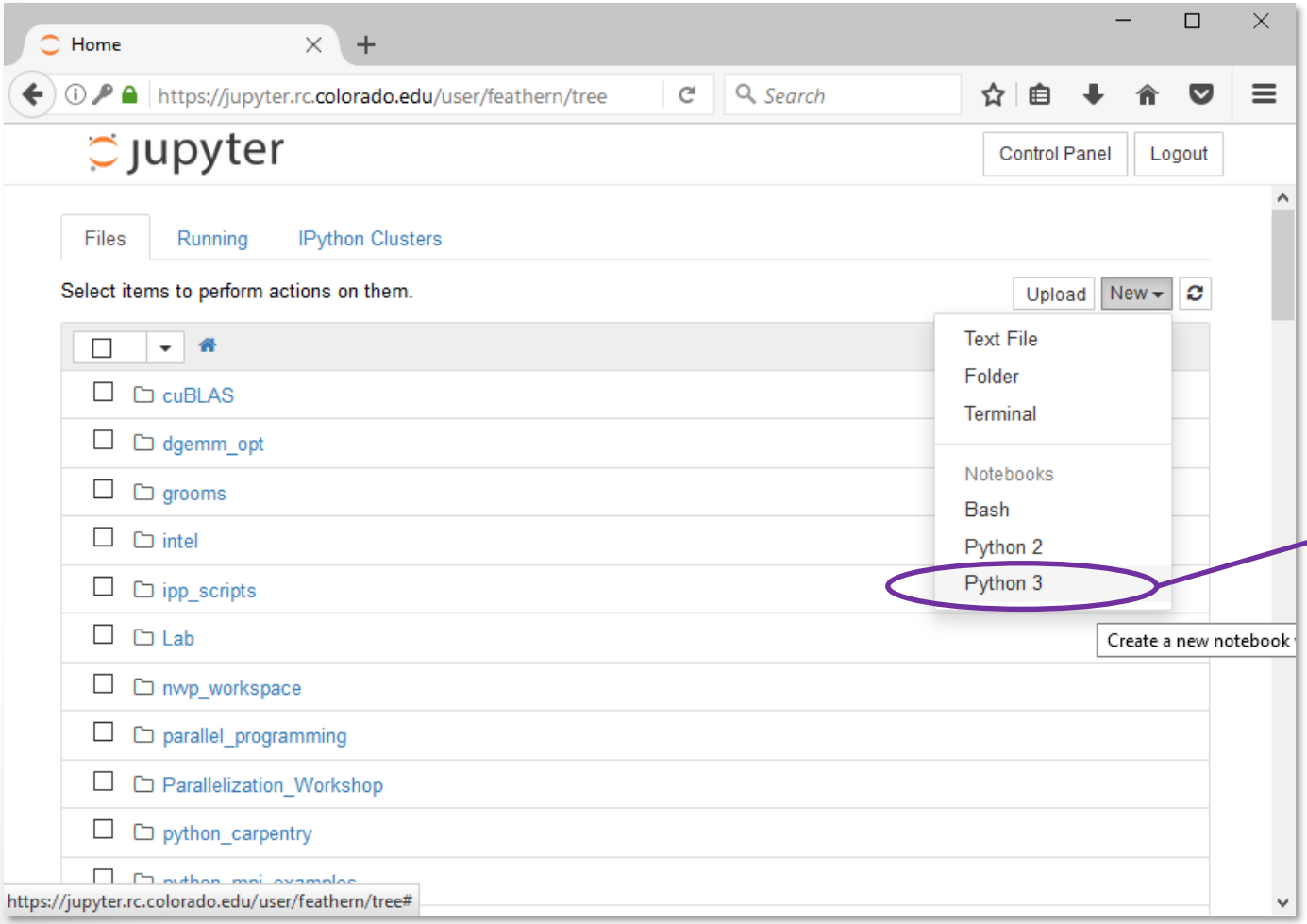
Getting Started

- Login to the RC Jupyter Hub:

https :// jupyter . rc . colorado . edu

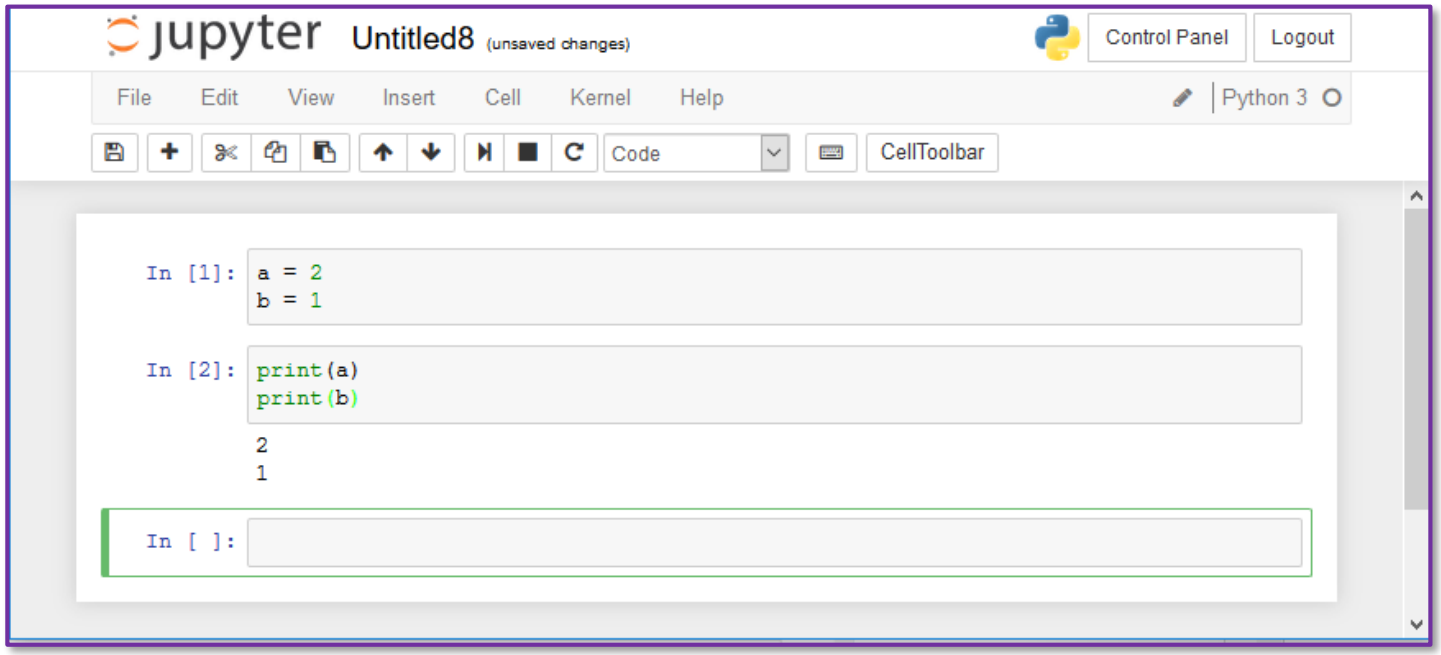


Getting Started…



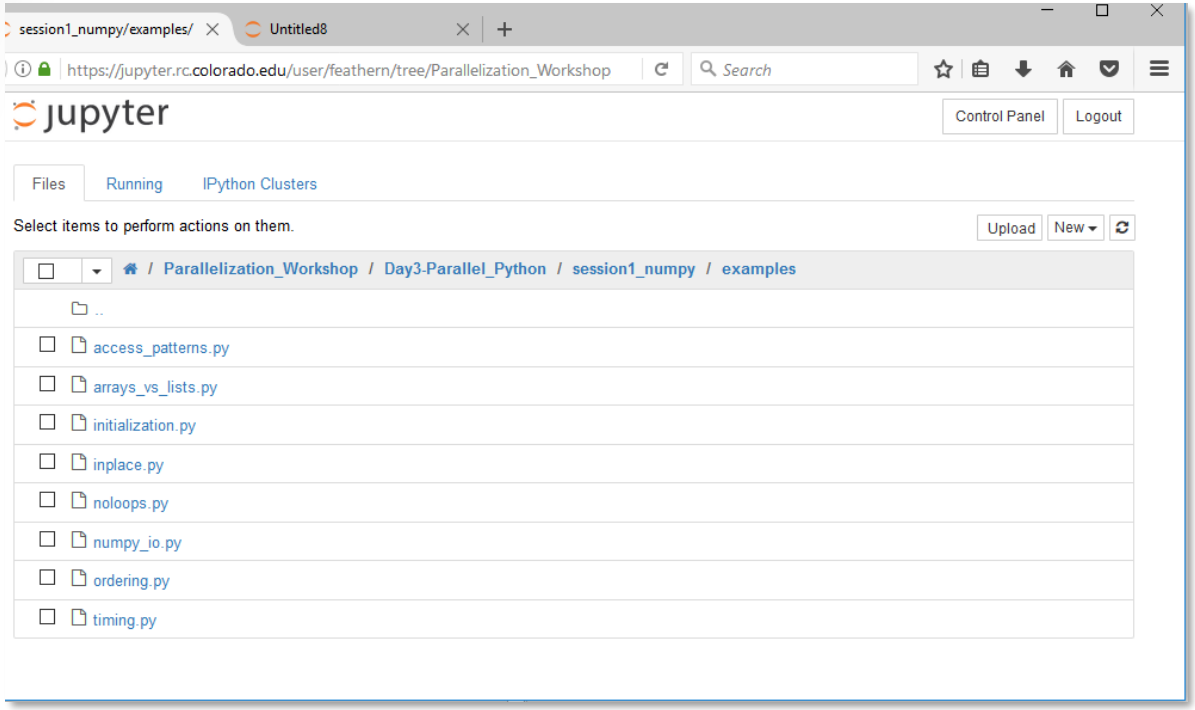
Start a Python 3 Notebook

So how does this work?



- Pressing “enter” moves to next line
- Pressing “shift” + “enter” executes code block
- Variables remain in memory between blocks…

File browser tab remains open…



Open this file:

Parallelization Workshop /

Day3-Parallel_Python /

session1_numpy /

examples /

timing.py

Workflow for today:

- Open file in file browser
- Cut + paste into notebook tab
- “shift” + “enter”

Timing in Python…

- Timing via “time” module
- Let’s look at **timing.py**
- time() returns seconds elapsed since some reference time.

usage pattern

```
import time

t0 = time.time()

… code you want to time …

t1 = time.time()
dt = t1-t0
print (‘Calculation time in seconds: ‘, dt)
```

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