Unit 3: Core tools

Jupyter

Lesson 30

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Overview of unit

Objectives:
- Understanding how data science activities necessitate certain kinds of tools
- Fundamentals with core data science tools

1. Why core tools?
2. Project organization
3. Python
4. Best practice: write CLI tools
5. Best practice: write unit tests
6. Best practice: resource referencing
7. Github
8. Jupyter notebooks
9. Jupyter & statefulness
10. Bokeh
11. Advanced bokeh
12. HW 3

Lesson overview

Objectives

- Sense for how Jupyter (and code notebooks) fit in the data science workflow
- Have Jupyter running on your EC2

Outline

- What is Jupyter?
- Setting up Jupyter on a cloud machine

What is Jupyter?

Setting up Jupyter on your EC2

Nice [setup guide](#).

1. Create an SSL certificate
2. Configure Jupyter to use the SSL certificate
3. Attach Jupyter to your external IP address
4. Set your password
5. Open the appropriate port (typically 8888) on your EC2

Lesson wrap-up

Takeaways

- Jupyter is an efficient way of doing experimental work (writing code and running analyses)

Up next

- Choosing the right tools