Unit 3: Core tools

Github

Lesson 29

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

Lesson overview

Objectives

• Use remote version control (e.g., git/github) for your projects

L boo big!

Don't commit your data

Outline

- Why version control?
- Quick git CLI overview
- Handling data
- A word on branching

Why version control?

Backups – you don't want to lose valuable code!

Multi-machine work – desktop, laptop, and cloud?

Collaboration & sharing

- Working in teams
- Sharing with the world

Tracking progress – committing code helps with wessays

Quick git CLI overview

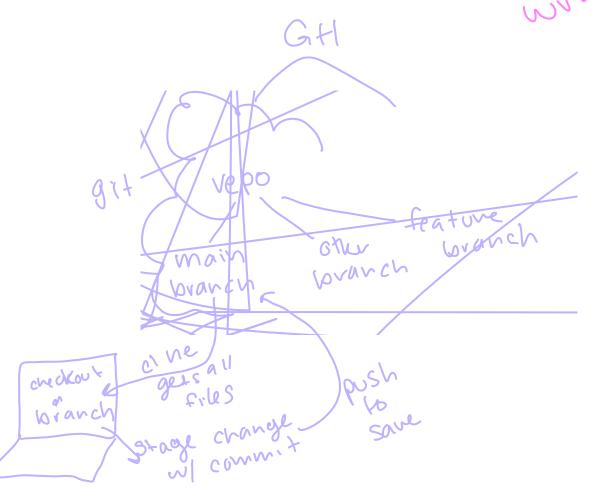
github is a commercial and appround

git clone

git commit

git push

git pull



Best practices

One repository per project

Name projects snazzy, descriptive things

Super large files (like data) shouldn't be checked into a repository

- Use your README to explain how to get there, where to setup, etc...
- Use make or other tools to automate as much as possible

Don't worry too much about branching ... it's more of a software development thing.

Lesson wrap-up

Takeaways

- Use version control!
- Git is a good choice...

Up next

Jupyter & exploratory code