

Kickoff

Peter Ganong and Maggie Shi

October 7, 2024

Pulling this week's material – main branch

This is the repository for PPHA 30538: Data and Programming in Python, fall 2024.

☆ 0 stars 🍴 133 forks 👁 0 watching 🌿 2 Branches 🏷 0 Tags 📈 Activity

🌐 Public repository · Forked from [uchicago-harris-dap/ppha30538_fall2024](#)

🌿 main ▾

🔗

📁

Go to file

+

<> Code ▾

This branch is **14 commits behind** `uchicago-harris-dap/ppha30538_fall2024:main`.

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🔗

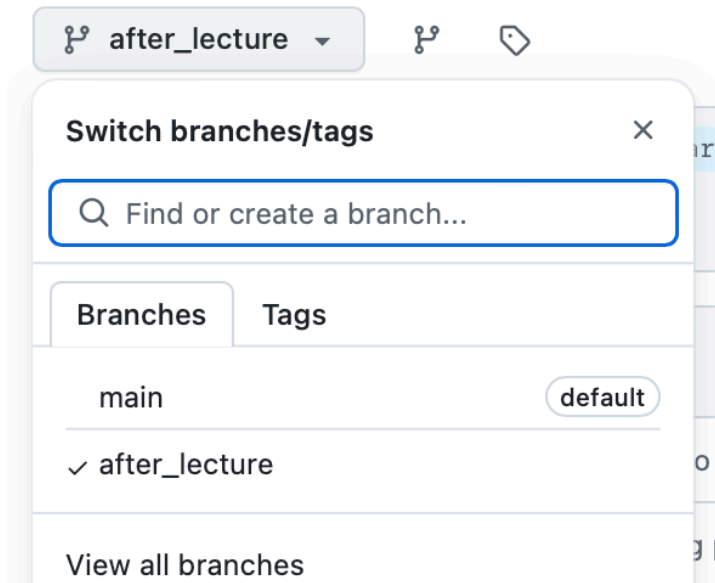
This branch is out-of-date
Update branch to keep this branch up-to-date by syncing 14 commits from the upstream repository.
[Learn more about syncing a fork](#)

Compare

Update branch

052c4e2 · 4 days ago 🕒	
ypo Thursday kickoff slides	4 days ago
ed html without solutions for l...	4 days ago
ate minilesson to include pyth...	4 days ago
ating ps1.pdf	4 days ago
gitignore	2 weeks ago
ate README.md	last week

Pulling this week's material – after_lecture branch



MUD cards: about you professional (Professor Ganong)

- ▶ I loved reading these cards this weekend.
- ▶ Professional
 - ▶ Three current or former teachers in the class
 - ▶ Sustainable public transport system
 - ▶ Chinese port acquisitions
 - ▶ “PC game boy”
 - ▶ A huge number of you have internships or research projects where you are already using DAP skills – awesome! Excited to hear more about these
- ▶ “Observed the same things when I worked at the Mayor’s Office this summer in Chicago”

MUD cards: about you personal (Professor Ganong)

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- ▶ Singers: jazz, hip-hop
- ▶ Once got a concussion from getting hit in the head by a fish
- ▶ One of you claims to have lived here for a winter and still says that they love the weather in Chicago

MUD cards: about you! (Professor Shi)

- ▶ Really fun to get to know a little more about you through MUD cards
- ▶ Diversity of professional backgrounds! Some examples of note: geopolitical risk management, AmeriCorps, film industry background, actor, criminal justice, want to do PhDs
- ▶ Diversity of interests! Some examples of note: playing tuba, owner of 2 pet bunnies, “legendarily bad at darts,” knows 5 languages, running a marathon later this month, a short story (mystery and fantasy) author, favorite foods include green curry and boba tea

Week 1 Recap

- ▶ Thank you all for your feedback on Ed - we are glad that you feel comfortable voicing concerns about the class!
 - ▶ **Realistic over perfect and clean:** thank you for your patience as we converge on submission processes
 - ▶ If dataset is very large: develop your code on a subset first using `df = pd.read_csv('your_file.csv', nrows = 1000)`
- ▶ **This class is hard.**
 - ▶ Learning to be an analyst is hard! And as an analyst, you will be asked to do things you were never taught.
 - ▶ Much of what is on problem sets is not covered in lecture – this is by design.
 - ▶ We will try to provide resources to support you. But you should expect to dedicate 10-20 hours a week – likely on the higher end in the first few weeks

Week 1 Recap

- ▶ We introduced three new concepts in the first week: VSCode + Quarto + Altair
 - ▶ The steepest part of the learning curve is likely last week
 - ▶ We will use VSCode and Quarto through the rest of the quarter
 - ▶ And stay with Altair through the end of week 3
- ▶ Getting help:
 - ▶ Help us help you: on Ed or at office hours, describe *in as much detail as possible* what your issue is, what you've tried, and why it seemed to not work. We will discuss in lab how how to create reproducible examples
 - ▶ Leverage your peers: if you notice in lab or from Ed that other students seemed to have gotten past the step at which you are stuck, ask them for help!

Debugging Tips

- ▶ *Highly* recommend copy and pasting your errors into ChatGPT and asking it what is wrong. This should be the first step of your troubleshooting “flowchart.”
 - ▶ Many of our answers to your Ed questions are us just doing this.
- ▶ Insert `print()` statements throughout Python code
- ▶ Places to look for Quarto rendering errors
 - ▶ Terminal output
 - ▶ In log file: use `quarto preview my-file.qmd --debug` to create `my-file.log`
- ▶ Isolate the error: if a Quarto document fails to compile, comment out sections of the document until you isolate which part is causing the issue
 - ▶ Sometimes commenting out doesn't work – try removing it outright

EdDiscussion Shoutouts

- ▶ Lively discussions on Ed on problem set, troubleshooting, etc. - this is great!
- ▶ Reminder: up to 2% extra credit for answering questions or posting useful info recommendation on reading CSV in VScode #42



Samar Negahdar
21 hours ago in **General**



PIN



STAR



WATCH

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VIEWS



I had a personal recom for those who are checking the csv from vscode console. go to extensions> look for "rainbow csv" and install it. it will make the csv more readable, giving different colors to values which are separated by comma!

Comment Edit Delete Endorse ...

Shortcut for adding code chunks #34



Kishika Mahajan
Yesterday in **General**



PIN



STAR



WATCH

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VIEWS



Hey everyone!

10

Because this came up in the lab, the shortcut to add code chunks in VS Code is cmd+shift+I (for mac) and ctrl+shift+I (for windows).

Comment Edit Delete Endorse ...

Other Admin Announcements

- ▶ Lab quizzes are based directly on lecture
 - ▶ Pay attention to lecture and engage with in-class exercises
 - ▶ Know how to read and interpret Python functions relevant to lecture
 - ▶ You won't be asked to memorize syntax, but rather look at a chunk of code and explain what it does or find a bug in it
- ▶ Final project parameters will be released some time this week
- ▶ Problem set 1 solutions are live
- ▶ Problem set 2 is live and due at end of *next* week (Sat Oct 19)
 - ▶ It is on visualization and altair
 - ▶ Give yourself time to do it – longer than PS1