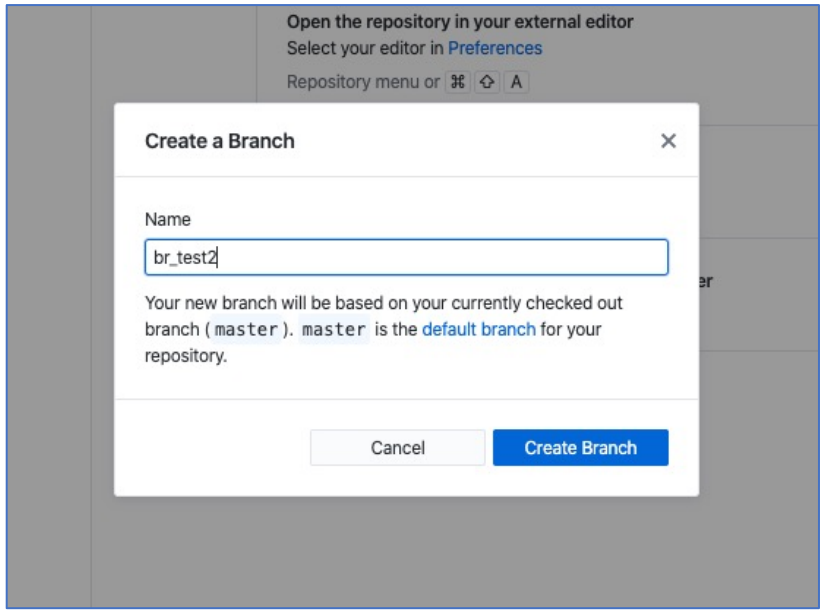
GitHub 2
collaboration

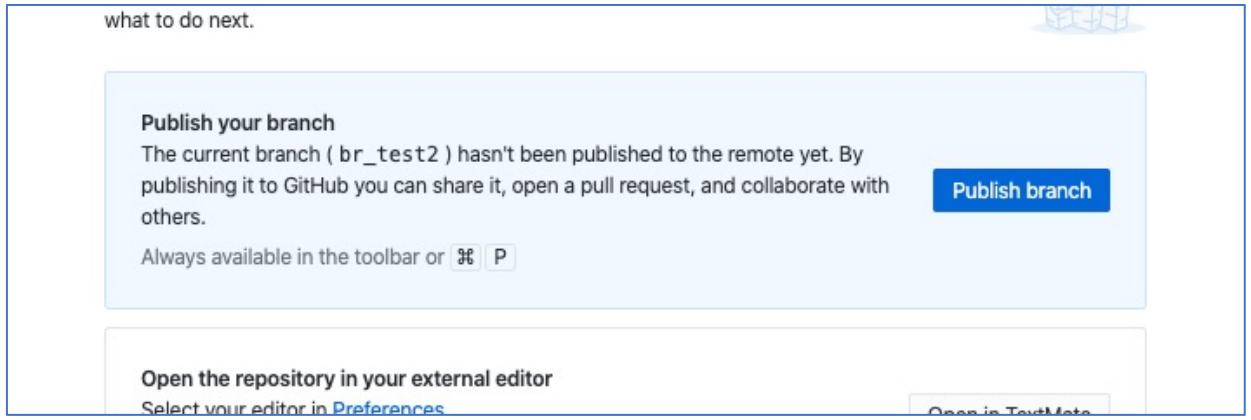
GitHub makes it easy to collaborate on a code project (I hope)

- Some typical group workflows are described here:
- https://uoftcoders.github.io/studyGroup/lessons/git/collaboration/lesson/ (*)
- and directions specific to using GitHub Desktop (the app you have installed, let's call it ***GHD***) are here:
- https://help.github.com/en/desktop/contributing-to-projects (**)
- **We will use a collaboration style involving cloning and forking, as described in Exercise 4 of (*), but using GHD.**

A code project has a Leader and Collaborators

- Leader makes master repo and pushes it to their GitHub account, and then tells Collaborators what its URL is
- Collaborators clones the repo to their laptop
- Collaborator makes a new "branch" with a descriptive name related to what they are doing (e.g. fixing_plots)
- Go ahead and publish it - but because you aren't the owner it will ask you to make a "fork" - go ahead and do that.



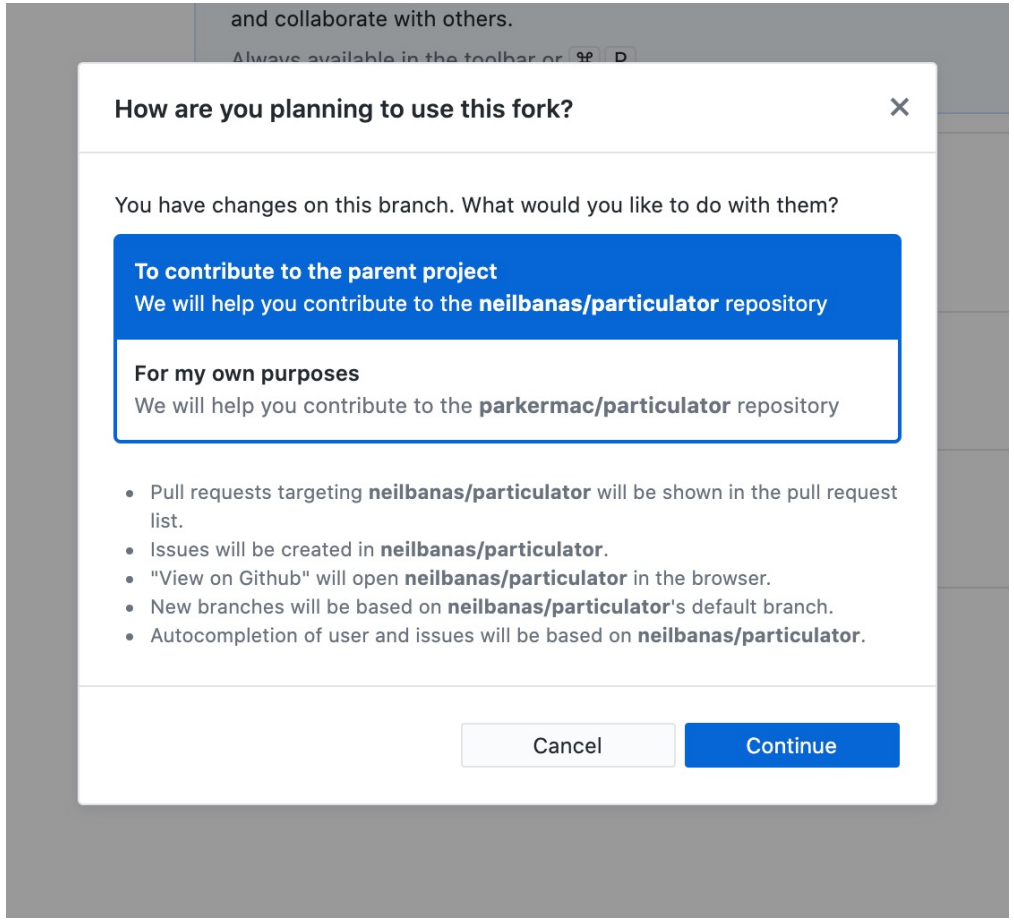


UPDATE 2020.10.01

When I walked through this process this week for my own collaborative research, I noticed that GitHub Desktop asked a new question.

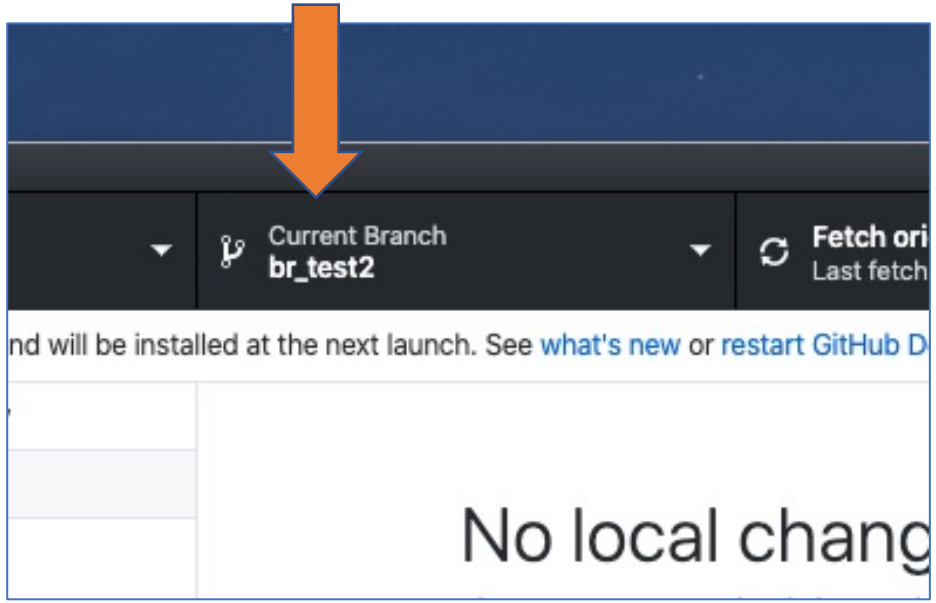
I chose “To contribute to the parent project” which is my intent in this case.

PM

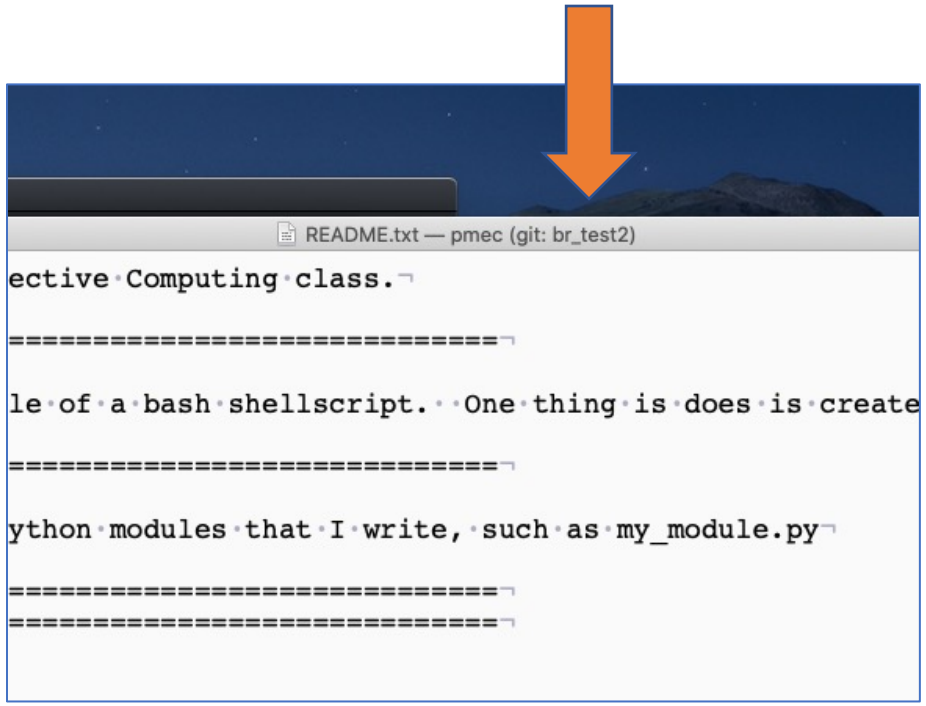


Then...

- Collaborator (*with GHD open and looking at the branch, not master, so that their text editor is editing the branch*) edits the file.
- Does this also mean that ipython is using that branch? Yes it does on my mac - but I wonder how this will work on the Windows-Ubuntu version??
- Test it by making a change in the code in the branch and then switching in GHD between the branch and master, and make sure the selected one executes in ipython.
- I'm still a little confused about this...



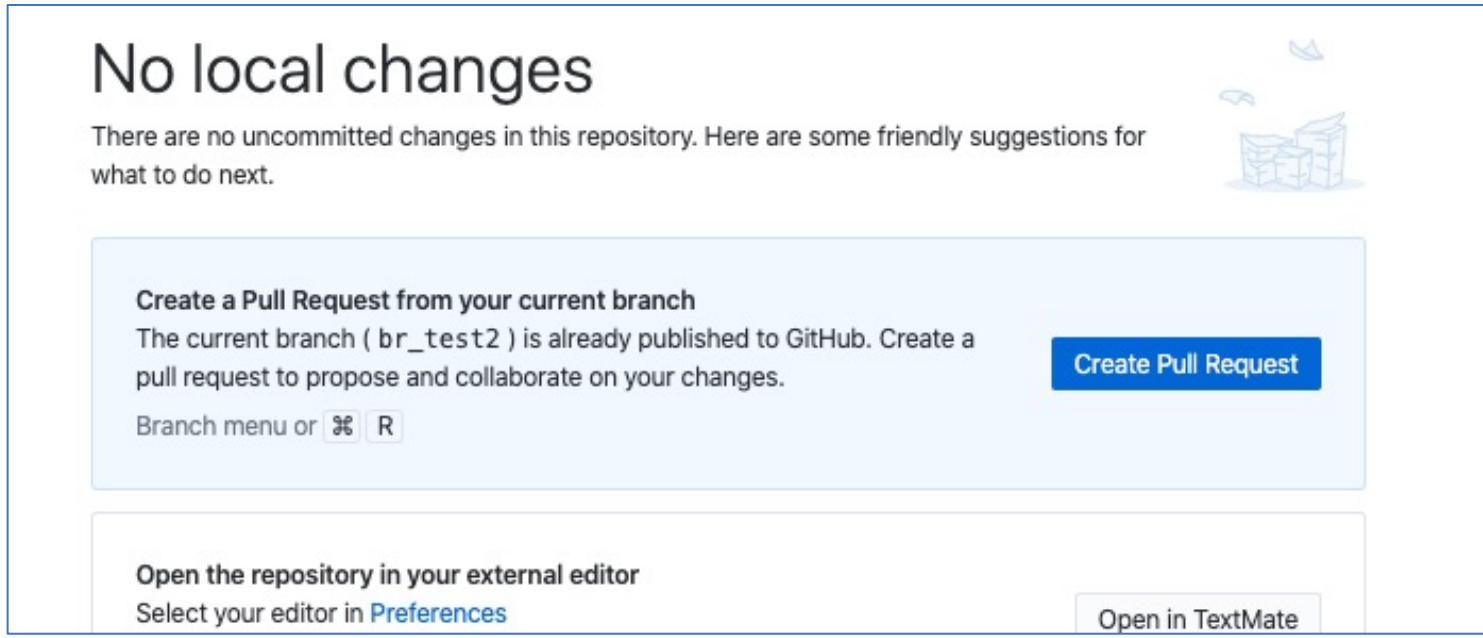
GHD



TextMate

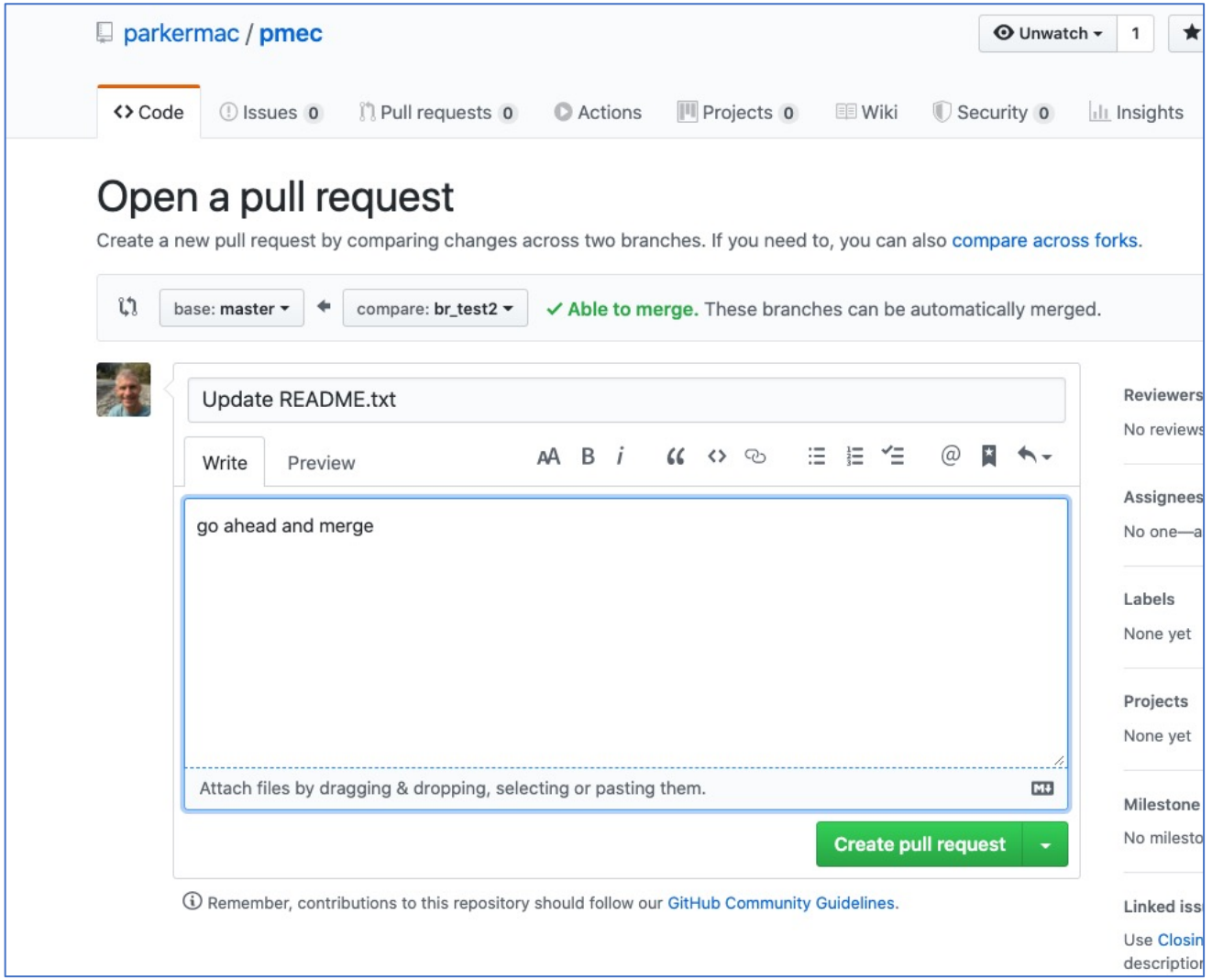
Then…

- Collaborator saves changes to their branch, pushes the changes to GitHub, and sends a "Pull Request"
- The Leader should get an email about this - mine showed up in my Forums tab in Gmail.



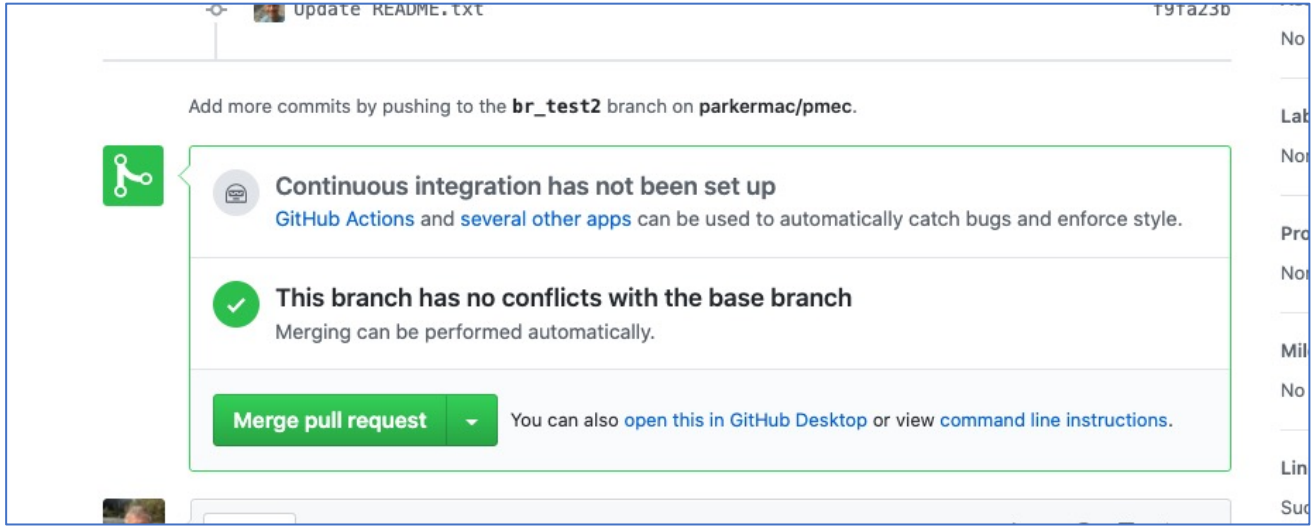
Then…

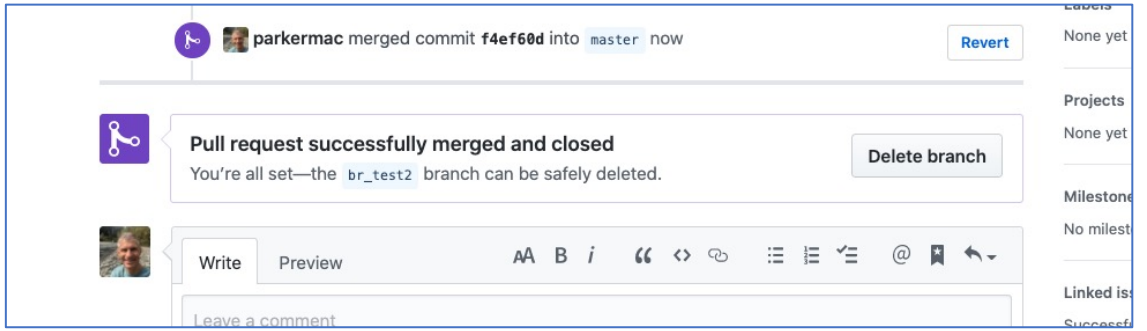
- When you (collaborator) make the pull request in GHD it sends you to GitHub in the cloud to make the actual request.



Then…

- Leader goes to GitHub, and decides if the changes in the branch should be merged with master.





Then…

- Leader will have to "pull origin" on their laptop to get the edits reflected there.
- In general GHD will prompt you for the next logical step.
- It is easy to delete branches to clean up after you are done