

Wolf Team - Project 3 - Github flow

- Accept the invite from github to be a collaborator
- Follow the established procedure to clone the Wolfproject3 repo to your computer
- Get back on Github online: click the button on left labelled Branch: master
- Type your name in the form - just one word is best - and hit return
- You now have a branch off of master in your name. - Congrats!
- Get back in the bash window:
- Enter: git pull origin <name of your branch>
- You can enter: git branch This will show the current branches. There will be an asterisk beside the name of the branch you are in. It should be beside master.
- Enter: git checkout <name of your branch> - this puts you in your remote branch of the repo

Now it's important to understand - Our repo consists of:

- Master online
- <Your branch> online
- A Master on your local machine
- <Your branch> on your local machine - THAT'S 4 VERSIONS FOR EACH PERSON.

Practice these steps as much as we like this coming week:

- Make a small change in the dummy file <index.js> in your editor - I added my name in a comment line
- In your Bash window: make sure you are still in your remote branch - the prompt line should be something like/Wolfproject3 (<name of your branch>)
- Perform a
 - Git add .
 - Git commit -m "small change"
 - Git push

You have just updated the change you made in your local <your name> branch to your remote <your name> branch. That is all!

- Get back on Github online
- Change branches to show that you are in your branch - NOT THE MASTER
- There will be a new button next to the Branch: <your name> button, New Pull Request. Click it.
- A new page loads, scroll down a little to find the big green button labelled: Create Pull Request - click that.
- Send me a slack that you have done this. I will check the repo and make the merge from your branch to the master.

- I will then slack to everyone that a new merge has been made. If it is you that just made the change, you are fine.
- For everyone else. Make sure you are in your branch in bash. Then do this:
 - git pull origin master - this pulls the new master to your branch on your machine
 - git push - this pushes those changes to your branch online in github.

Everyone's local branch and online branch should be equal to the master branch. It is your choice to update your local version of the master. It's not necessary to do this often, but to do so, you must be in the master branch in your bash window. Then do a `git pull origin master`. This updates your local master branch. Make sure to move back into your local branch with a:
`git checkout <name of your branch>`

So, a recap to move forward after this setup:

- When you start work, be in <name of your branch> in the bash window, in our repo - Wolfproject3 - obviously.
 - git pull origin master - this pulls the latest master to your local branch
 - git push - this updates your online version of <name of your branch>
 - Do your work in your editor.
 - git add .
 - git commit -m "descriptive changes"
 - git push. Do these 3 often, anyway, especially when you finish your work for the day. This saves your work in the online branch of <name of your branch>
 - git pull request - When ready to merge your files into the master
 - Slack Tom to do the merge.
 - Tom does the merge and slacks everyone to let them know.
 - Everyone else :
 - git pull origin master
 - git push - so now everyone has the latest changes on their local and their remote.

I hope it's obvious that this system doesn't work if two people are changing the same file at the same time!!! Someone will lose their work. There's no reason we should ever be doing this. Inputs on each others' files can be made through slack.