

FRC 2019 Git Hub Initialization Instructions

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Understanding the Git-Hub Flow (please read, at least the first one):

- <https://guides.github.com/introduction/flow/>
- <https://help.github.com/articles/github-flow/>

Part 1: Initializing your local Git and Syncing to remote Github Repo

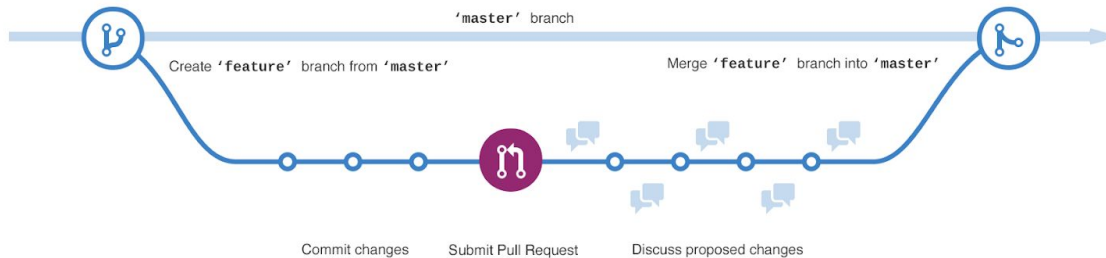
1. Create a new project folder and open in VSCode
 - a. Create a new empty folder in Documents called "FRC2019_DeepSpace"
 - b. Open VSCode
 - c. Open folder within VSCode
2. Within VSCode Press F1 to open the command pallet, Type Git:Init.
3. Select Open Repository when a window prompts you to do so.
4. In Windows, Search for and open "Git Bash"
 - a. If you can't find Git Bash you may need to install git:
<https://git-scm.com/downloads>
5. In the window that opens type (replace with your email and name):

```
$ git config --global user.email johndoe@example.com  
$ git config --global user.name "John Doe"
```
6. Navigate to your project folder:

```
$ cd ~/Documents/FRC2019_DeepSpace
```
7. Set remote:

```
$ git remote add origin https://github.com/Team-Magma-3008/FRC2019-DeepSpace
```
8. Back in VScode
9. Fetch remote repo
In command pallet type: Git: Fetch from all Remotes...
10. Pull remote repo
In command pallet type: Git: Pull From...
11. From the command window that drops down select the remote repo you added above.
12. Go to the explorer window (ctrl-shift-e).
13. You should see the remote files are now in your local repo.
14. Build Robot Code to ensure that everything is loaded properly

Part 2: Creating a new feature branch



1. For each new feature “Subsystem and/or Command” we will be creating a new branch to work from. The process can be seen visually above.
2. Create new feature branch.
Press F1 to open the command pallet and type: `Git: Create Branch`
3. Type in the name of your new branch: “Example_Command1”
4. Push new branch to the remote Git hub (this ensures that your code is stored online).
Press F1 to open the command pallet and type: `Git: Push To...`
5. Select your remote repo
`origin https://github.com/Team-Magma-3008/FRC2019-DeepSpace`
6. Now you can begin working and testing code on your branch without affecting any changes on the main branch.
7. Additional Info:
<https://help.github.com/articles/creating-and-deleting-branches-within-your-repository/>

Part 3: Committing changes to your new feature branch

1. Working in your new branch you now make code changes, add files, test run and debug as needed.
2. Periodically (once a day?, hourly?, after each incremental step?) you should save and “Commit” your changes to the repository.
3. After making changes do a “Stage All Changes”
Press F1 to open the command pallet and type: `Git: Stage All Changes`
4. Commit all staged changes to local git repo:
Press F1 to open the command pallet and type: `Git: Commit All`
5. Push changes to the remote Git hub : three dots -> Push To...
Press F1 to open the command pallet and type: `Git: Push To...`
6. Select your remote branch

Part 4: Submitting a Pull Request

1. <https://help.github.com/articles/about-pull-requests/>

Part 5: Merging a feature branch into the Master

1. <https://help.github.com/articles/merging-a-pull-request/>

Part 6: Fetch and update local repo with remote

Additional help:

- <https://help.github.com/categories/collaborating-with-issues-and-pull-requests/>
- <https://google.com>
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