STARFISH SCHOOL

A Virtual Bootcamp for Astronomy Graduate Students

SESSION 3 EXERCISES

Version 3.0

Exercise 1

1. Create a directory with a couple of new python files.
2. Initialize a git repository within the directory
3. Make changes to the files and commit them to your repository
4. Make a new branch and commit a new change to your python files
5. Merge the new branch down to the main branch
6. Check out the git log to see all your commits

Exercise 2

1. Create a new uninitialized git repository on GitHub
2. Push your repository to the new repository
3. Clone the remote repo to a new folder
4. Create a conflict: make changes to both the old and new repository
5. Fix the conflict and push everything back to the remote

Exercise 3

Teams of 2-3

1. One member of the team should fork the exercise repository (https://github.com/starfishschool/repo_for_session3_exercise) and give the other team member access to the repository.
2. Each of the members should clone the repository and edit a file called “load_data.py”
3. In the file, everyone should create a function that produces the Fibonacci sequence to a certain input number, and commit it to their local repository
4. Push your changes to the remote repository, and deal with the conflicts.
5. Edit the file named “readme.md” with your description of the repository and push to GitHub

Exercise 4

1. Create a new folder called "TestProject"
2. Open R Studio and start a new R Project within this folder
3. Make an R script with a function, or a few commands, etc. (whatever you like!)
4. Save the R script and add it to the git repository
5. Commit the file.
6. Make a change to the R script, and then look at the difference between the changes and the previous commit.