

Version Control: Git

Git tasks

1. Read my Git primer on the ASTR8020 links page.
Read the whole thing before attempting any tasks.
 2. Configure Git (if necessary)
 - Use *git config --global --edit* to make sure your name and email are correct
 3. Make a practice repo on your computer and learn to commit and revert changes.
 4. Clone our ASTR8020/directory with *git clone*.
 5. Make your personal directory in the Git repository. Use the UNIX *mkdir* command. Also add a *week1* subdirectory.
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6. Create a `.gitkeep` file and add it to your local repository using *git add* and *git commit*. Don't forget to supply comments.
 7. See whether your local repository is up to date using *git fetch* and *git status*. Update it with *git pull* if it is not.
 8. Push your changes to the remote repository with *git push origin master*.
 9. Use *ls* to explore the `ASTR8020` directory
 - Has anything changed as your peers have progressed?
 10. Add a dummy file to your working directory and commit a couple of changes to it.
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11. *git fetch* and then *git status* again to ensure you have the most recent version of the repo. *git pull* to merge changes if you do not.
 12. Use the UNIX *rm* command to delete the dummy file that you created
 13. *git status*, what happened?
 - Execute *git checkout filename*
 - Note how useful this is...your work is backed up
 - this is (one of the reasons) why it is very beneficial to frequently *git commit* any work you are conducting
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1. Submit the *git fetch* and *git status* commands. Update with *git pull* to ensure that you have the most recent version of the repo.
 2. Run *git log*
 - A lot has happened. Do you understand the output?
 3. Change the content of your text file and recommit it
 4. *git fetch*, *git status*, *git pull* again, to ensure you have the most recent version of the repo
 5. Can you determine how to use *git diff* to see the difference between your text file when you first submitted it, and your more recent version?
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