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8 September 2021

Cheat Sheet

What is GitHub and version control?

- Git
 - Version Control Software
 - This is the program/system. It tracks all the codes/changes/communication between various computers. It is the brains of the program.
- GitHub
 - Cloud based repo sharing
- GitKraken
 - This is the computer software/terminal. It is where one would do commands to interact with other programs (ex.: installation, SSH, etc.) and provide commands directly to a local computer.
- GitKraken
 - GUI
 - Stands for 'Graphical User Interface'
 - This is a place to “point” and “click” (interact) with different repositories.
 - Repositories (Repos) are files that are stored locally in order to provide changes on a local computer that can be pushed (updated) into a cloud for others to see and pull from.
 - This is where we pull, push, stage, and commit any files that have been updated locally or in the cloud.

- Pull: This is a button that is pressed to bring the files in the local computer up to date to the cloud.
- Stage/Commit: This is to create a place where one can roll back to a “meaningful chunk” if someone is working on code.
- Push: This is when files that have been updated locally are updated within the cloud.

Example of how to turn in a HW assignment:

1. Clone personal homework repo into the Course-Materials21 repo for this course using GitKraken and personal SSH key.
 - a. SSH = Secure Shell
 - i. This is a personal key/login that allows a user to continue to pull updated files into their repo from the cloud without having to enter a password every time. It is totally secure and allows for easier “communication” between multiple computers (to securely transfer files).
2. Place completed homework assignment in the local homework folder (on computer) in the correction assignment folder.
 - a. Ex.: Place completed cheat sheet in: HAS_Tools -> homework-StephSerrano -> Cheat_Sheets
3. Open GitKraken and pull any files that may have been updated elsewhere in order to be caught up with the entire course/class.
4. Open the homework repo and select the “WIP” file.
5. “Stage” any changes to the file.
6. Write a small description of the file OR any changes that have been made.
7. “Commit” the file.

8. Push the commit so that the file is moved from the local folder to the course cloud.
9. Done! Changes should be updated in GitKraken/GitHub.