How to "Git Gud"

A short explanation and tutorial on Git Version Control and Github

What is Version Control?

- "Version Control is the practice of ensuring collaborative data sharing and editing among users of systems that employ different versions of a product."
- TL;DR: It allows us to track each change that happens in a particular file structure and "rewind" or "fast-forward" as we please.

What do you need?

Windows:

https://git-scm.com/

Linux (apt):

• ```sudo apt-get install git```

Ease of use (optional):

http://www.gitkraken.com/

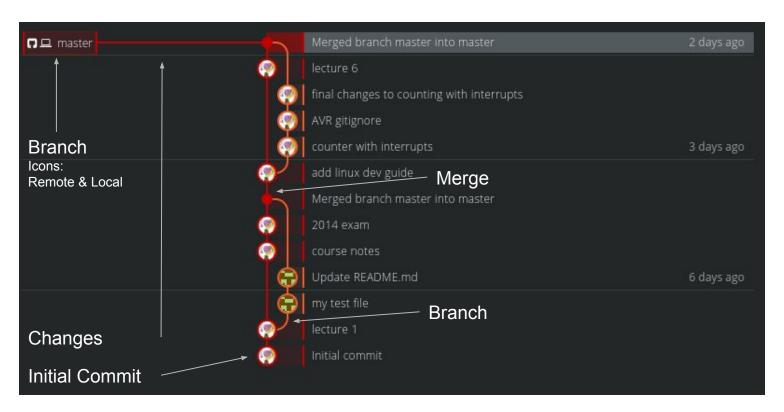
Terminology

- Repository (Repo): The record of commits made for a particular working directory.
- Working Directory: The file structure that is being subject to Git
- Commit: The act of saving changes in the working directory to the repository
- Branch: A split in the working directory that follows a different chain of commits.
- Merge: The act of merging two branches together.
 - **Merge Conflict**: When the two branches being merged have changes made in the exact same area.

Terminology (2)

- **Local**: Refers to the repository on the local machine
- **Remote**: Refers to the repository that is on Github or other Git service.
- Push: The act of uploading new commits and/or branches to the remote repository.
- Pull: The act of downloading ... (as for push)
- **Stash**: A stack based structure for storing working directory changes that have not been committed yet
 - This is useful for pulling changes without committing or discarding your own changes.
 - Changes can be stashed and applied freely but remember that it is stack based.

How does it Work?



Screenshot: GitKraken

often.

Branch early, and branch