



Git (for Dummies)

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For UWICS Project Month 2020

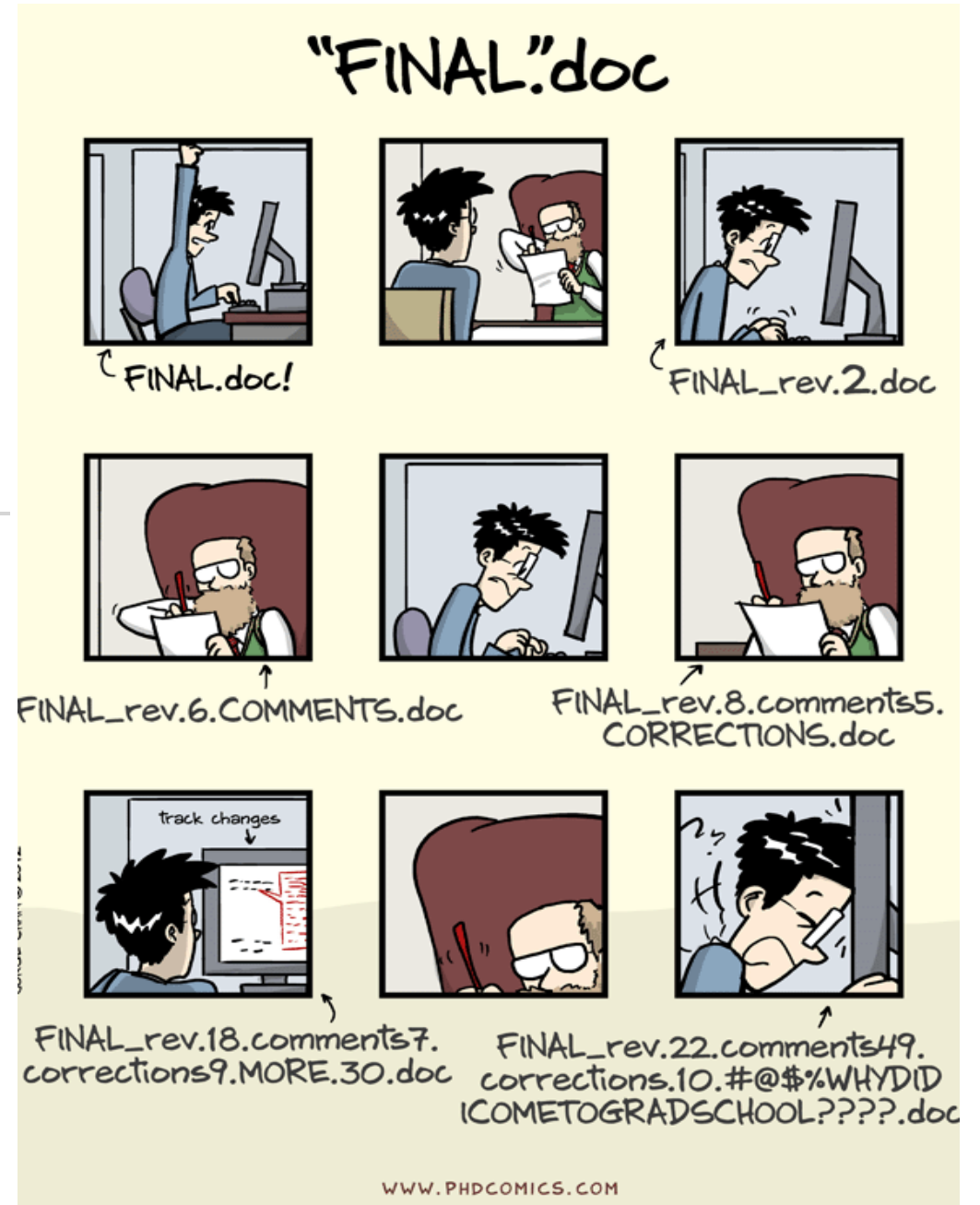


Here's what we'll be covering

- Why Git?
- GitHub
- The Basics
- Git Clients
- Git Kraken
- Some other stuff...

Why Git?

Version Control: A fancy way to say keeping track of changes.



Then there's GitHub

- Contains a ton of Git repositories.
- The largest host of source code in the world.
- Code resources and collaboration – Issues, forks, pull requests, open source licenses
- Personal repositories - A fancy portfolio that shows you're more 'tech-savvy' than the average secretary



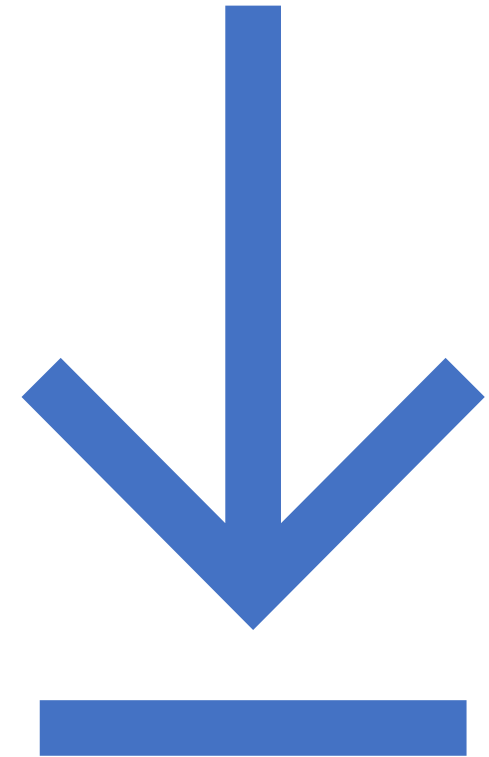
Basics – Creating a Repo

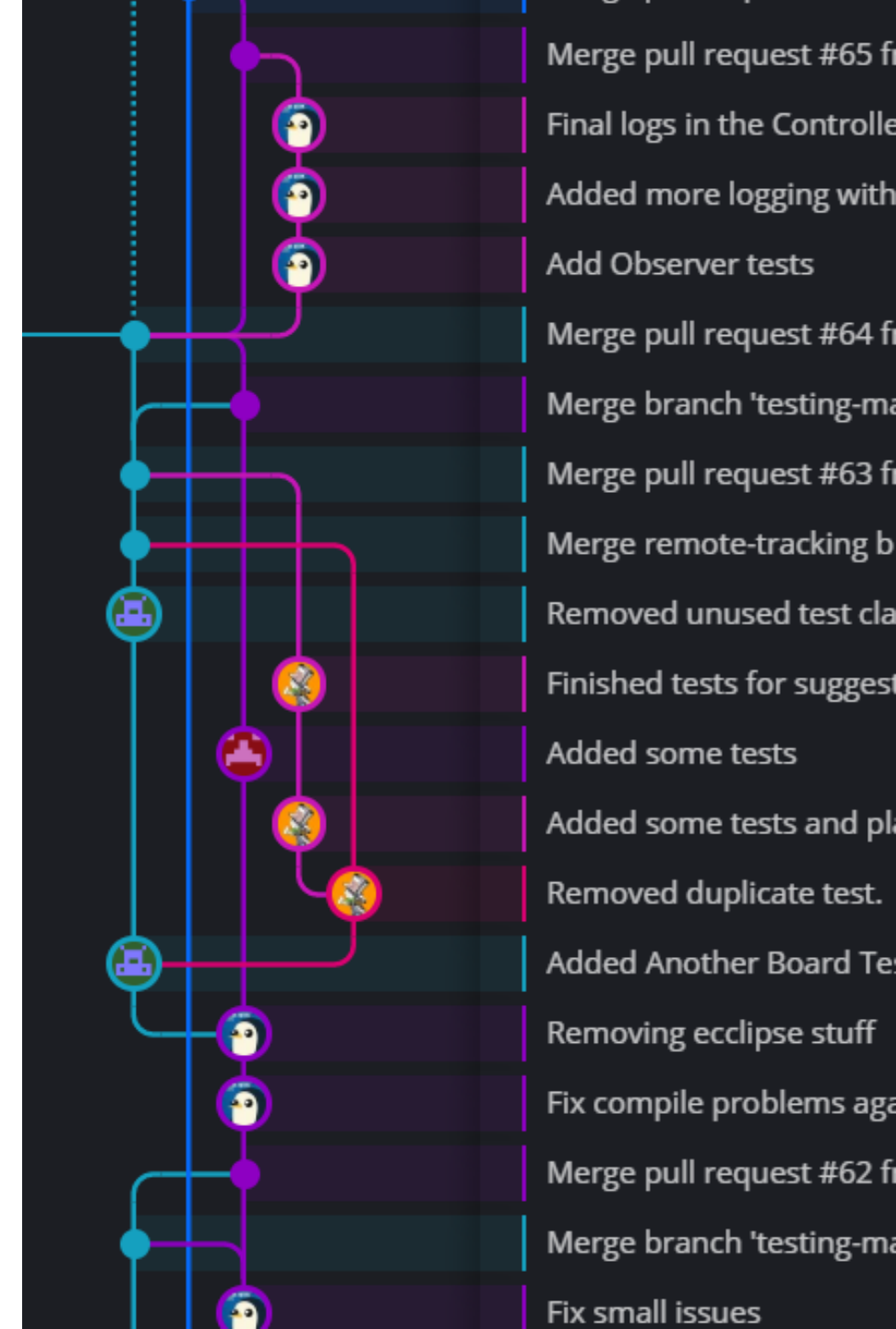
- Can be done using the command line
- On the GitHub website
- Through a client
- ...Many other ways



Basics – Commits, Push, Pull

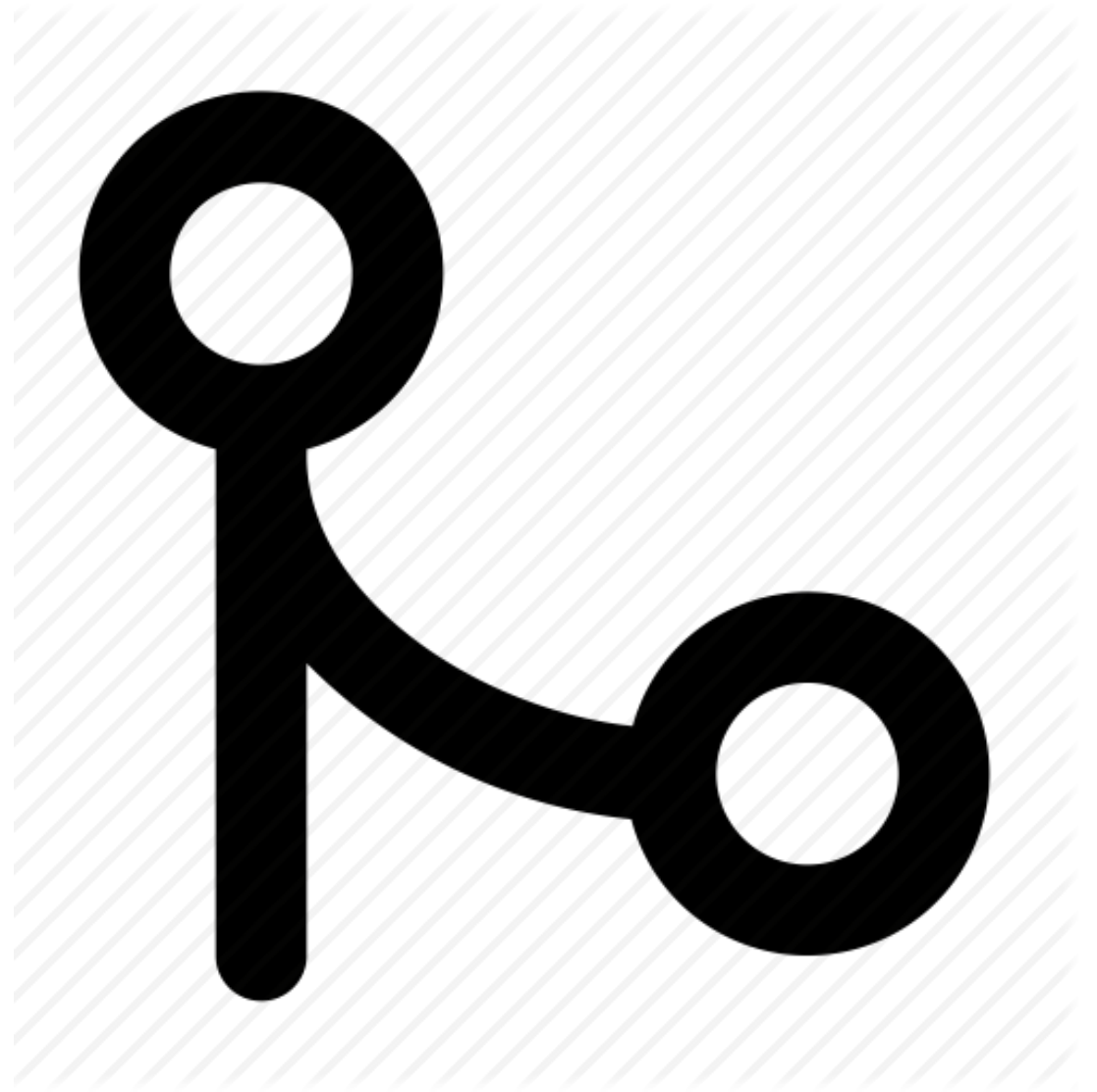
- Commit : Saving changes to a local repository. Local here meaning, on your computer, not in Trinidad.
- Push: Upload changes to the remote repository
- Pull: Download changes from the remote repository to the local repository





Not so Basic – Pull requests and Merging, Forking

- These may cause problems if you don't know what you're doing.
- Pull Requests are supposed to prevent you from adding unwanted changes to a branch.
- Forking someone's repo, (if it's correctly licensed) let's you build on their work or make it your own (with credit given of course).



There are many Git Clients

- Git for Windows or Linux
- QGit (Linux)
- Sourcetree (Windows)
- GitBox (for Mac)
- GitKraken
- Integration with IDEs like Visual Studio Code, JetBrains IDEs

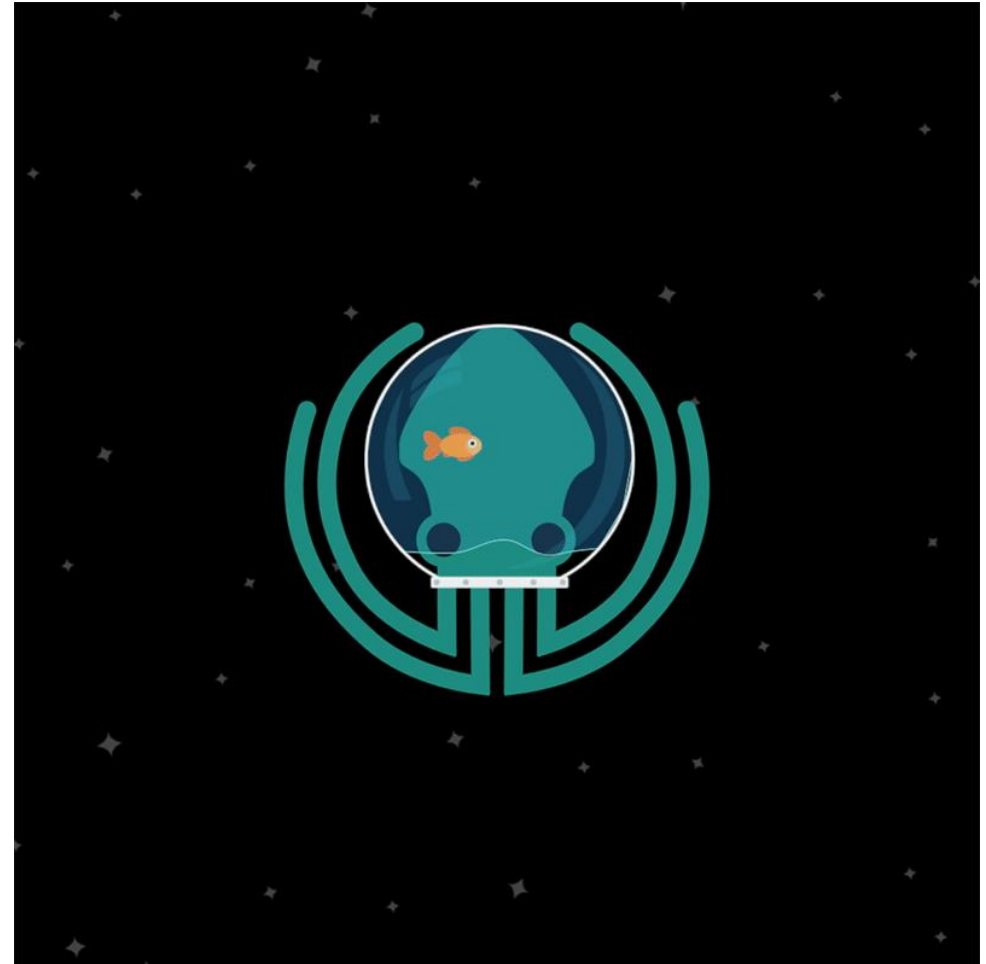


Gitbox

Version control as easy as Mail.

I'm biased, so here's GitKraken:

- Undo/redo
- Stash/Pop
- Ignore
- Merge Conflict resolution



A few things to note

- Git doesn't want your photos, videos, audio files, presentations.
- You need to practice.
- Some clients leave a lot of room for error, some don't.
- EVERYONE can see your repo.
- You can create teams through GitHub Organizations

Resources



- Formatting README.md files: <https://guides.github.com/features/mastering-markdown/>
- Codecademy Git Course : <https://www.codecademy.com/learn/learn-git> (To learn git commands)
- Sign up for Project Month here: <https://forms.gle/GVktDYY9yMd2MNRs8>
- Let me know what else to add here..



That's all folks

Any questions, concerns, corrections, comments, violent outbursts?