Section 11 GitHub: The basics

What matters?

Critical:

* What does GitHub do?
* Cloning
* Registering for GitHub & Setting up SSH Keys
* Creating GitHub Repos
* Working with remotes
* Git Push

What does GitHub do?

What is GitHub?

* Hosting platform for git repos.
* You can put your Git repos on GitHub & access them from anywhere.
* Provides collaboration features.

Why should you use GitHub

* Exposure
* Showcase your projects
* Collaborate on open-source software.
* Keep up to date.

Cloning GitHub Repos with Git Clone

A picture containing text

Description automatically generated

Graphical user interface

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Cloning Non-GitHub Repos

Text

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Permissions

Git clone works for any hosting repo

GitHub Setup: SSH Config

SSH Keys

* Need to be authenticated on GitHub to do certain operations.
  + Like pushing up code from your local machine.
  + Terminal will prompt you to input GitHub Username/ password OOOFFF.
* You generate and configure an SSH key! Once generated you won’t need to input your email/ password

Creating our first GitHub Repo

Graphical user interface

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Graphical user interface, application

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Crash Course on Git Remotes

A picture containing graphical user interface

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Graphical user interface, text

Description automatically generated

Diagram

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Graphical user interface

Description automatically generated with medium confidence

Other Commands

* Not commonly used
* CMDs to rename & delete remotes if needed.
* git remote rename <old> <new>
* git remote remove <name>

Intro Git Push

Graphical user interface, application

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Touring a GitHub Repo

* Top right-hand corner. You can view total commits & look at each one.

Closer look at Git Push

Graphical user interface, application, chat or text message

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What does the “git push -u” mean?Graphical user interface, application

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Graphical user interface, text, application, chat or text message

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It doesn’t have to be for the same branch, though it’s not advisable.

Main & Master: GitHub Default Branches

* When you initialize a repo with files on GitHub
  + Will set main as the default branch
* When you don’t initialize a repo with files
  + Diagram, timeline

    Description automatically generatedWill not set a branch. Empty Repo.