

## Command prompt

A low level of interface for executing command

Not as pretty as GUI

- Keyboard input

Configuring web servers

Used to run specific development tools

- Git
- Node.js
- Ruby
- SASS/SCSS

How do we access the Command prompt?

Start menu

Right click on start and select command prompt

Or Win+X then C

Information before > is working path= where commands you type will run

Aka prompt

Anything before a "/" is a file name

How to use?

### **Navigation commands:**

C:= navigate to this © drive letter

cd= change directory

Cd ..= go back 1

Cd \= go to root directory

dir= list contents of directory (folders)

dir/ad= limit list to only directories

Switches

/w= column view

/p= pause after each screen

Md name= make specified directory

Rd name= remove specific empty directory

Del main.css= delete specified file

Open file by typing open and it's name and extension: open main.css

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## Intro to git

Git removes the need to copy files to and from the class share and H drive as you collab on a project

Git is like using a camera to take snap of files so you can go back

Aka checkpoint

Git exists so you can modify and change code/ there are save points along the way

Git is a collab tool allowing different people to work on projects at the same time

Protects yourself and others

How to set it up

Create folder

Go to command prompt/ navigate to folder using "cd \_\_\_\_\_"

Write "git init"

Type "git status"

How to start a checkpoint: "git add index.html"

## The local workflow

Git init creates a repository in the folder you ran the command on

Aka repo

Where checkpoints are stored

Modified- where files that are new or have changes not yet saved by Git

Staged- the current version of a file, tagged to be included in the next commit

Committed- safely stored by git

Git add neatly packs a copy in a box for ever

Commit box to storage and note what it contains

Git commit -m "description goes here"

Until we commit, there is no checkpoint to save us from errors

Git physically moves the box of copies into long-term storage so make sure you describe what's in the box just in case you need it

Does not move or remove files in the working directory

Add and commit the change

Git add index.html

Git commit -m "updated title"

Git log

Returns a list of all commits you have saved

## Working with git

Goals:

Set up a remote repository

Push local files into remote server

Understand branches

How to merge branches

What is a merge conflict?

Remote repositories

A copy of a project that is saved in the cloud

Backup work/share with others

Accessible anywhere with a connection

Git push tells git to upload all changes to the server. It doesn't need to be done after every commit, because it will upload all commits since the last path

Branches are like smaller bits extending from a tree

They represent different versions of code

Branches allow you to work on code fixes and features without breaking

Fixes and new features should ALWAYS start on a branch, so you don't mess anything up on the master branch

The master branch is like the trunk and should contain clean code ready for use and deployment

Git branch= see all existing branches

**Git checkout branchname** tells git to switch working folder to the branch name specified

## Working with branches

## Create new branch

## Git branch mobile

## Navigate with

## Git checkout mobile

## Git tracks changes in files independently

## Use the merge commands to combine branches

## Make sure code is functional

## Git merge branch combines the file changes into current branch

## What is a merge conflict?

## When a file has changed in both of the branches you are trying to combine and git can't automatically determine what to keep

## Aka git is asking for help

## How git tags

```
<<<<<<<<<<head- the branch you're working out
```

===== separates the conflicting changes in branches

Remove tagging to keep code, save. Add, comment

## Questions

1. Git will help people collaborate on a new level with the git merge command. This command allows you to merge over files to the main document from every brand you and your team may have created. The information also can be seen from anywhere in the world as long as you have wifi.
2. Im at a 3 I understand what's going on and what to do. But i just need repetition to remember all of the commands.
3. None
4. Having fun with my family at my grandparents