Module 1 - Lecture 1

Introduction to Tools

WELCOME!

The Basics

- Slack
- BitBucket
- Your mouse has an off switch.
- Sococo
- The Tech Elevator book has a language selection

FILES!

What is a File System?

- Controls how data is stored and retrieved
- Has multiple layers, logical and physical
- There are many different types
  - Operating systems support specific file systems
  - What are some differences between file systems on MacOS (APFS) and Windows (NTFS)?

What is a File System?

A collection of:

- Filenames
- Directories
- Metadata

Working with the File System

I need to do:

- Navigate
- Read
- Write

- This is done by communicating with the Logical Layer
- This can be done using a GUI like Finder or Windows Explorer. However, developers often use a Command Line Interface (CLI).

SHELLS!

What is a Shell?

A **shell** provides a text-based interface to interacting with the file system.

- In a shell, you write code that the computer understands to get the computer to do what you want.
- Many tasks in programming are done on the command line because it is more flexible than most GUI interfaces and can be scripted.
- We will be using a very popular shell called `bash`.

Common bash commands

- **Changing Directories**
  `cd <directory name>`
- **Print Working Directory**
  `pwd`
- **List Directory Contents**
  `ls -al`
- **Working with Files and Folders**
  a. **Moving Files and Folders**
     `mv <oldname> <newname>`
  b. **Copying Files and Folders**
     `cp <oldname> <newname>`
  c. **Making Folders**
     `mkdir <newfolder>`

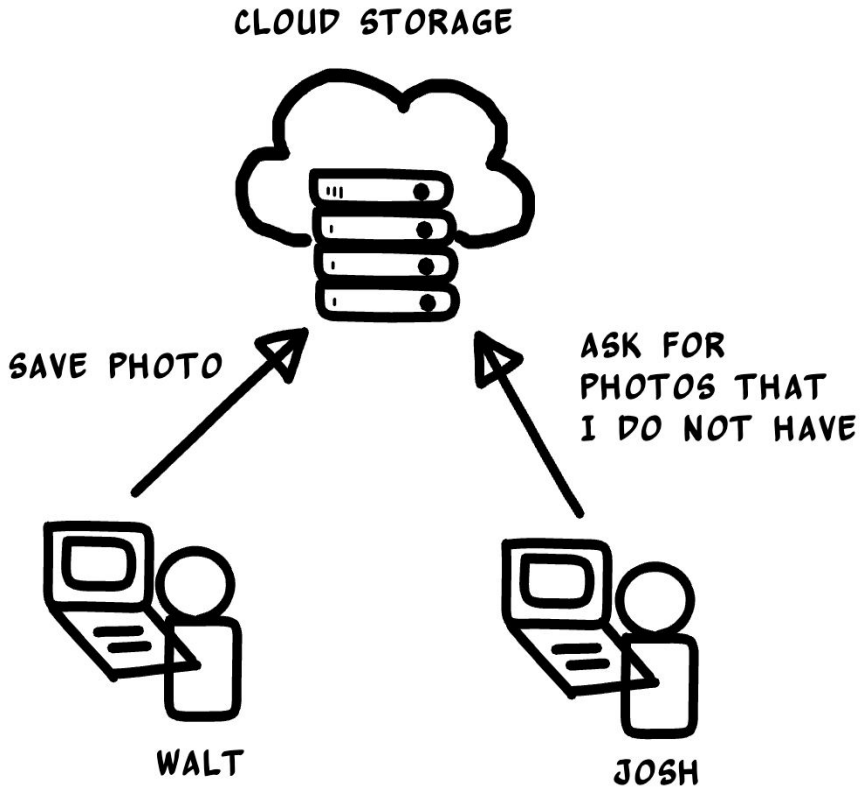
Let's Code!

Git!

Dropbox

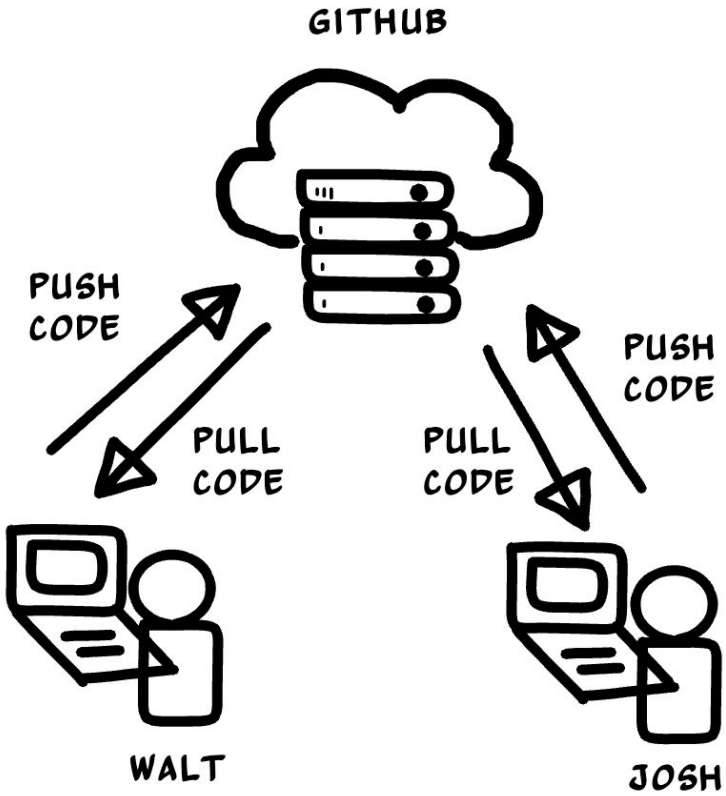
iCloud

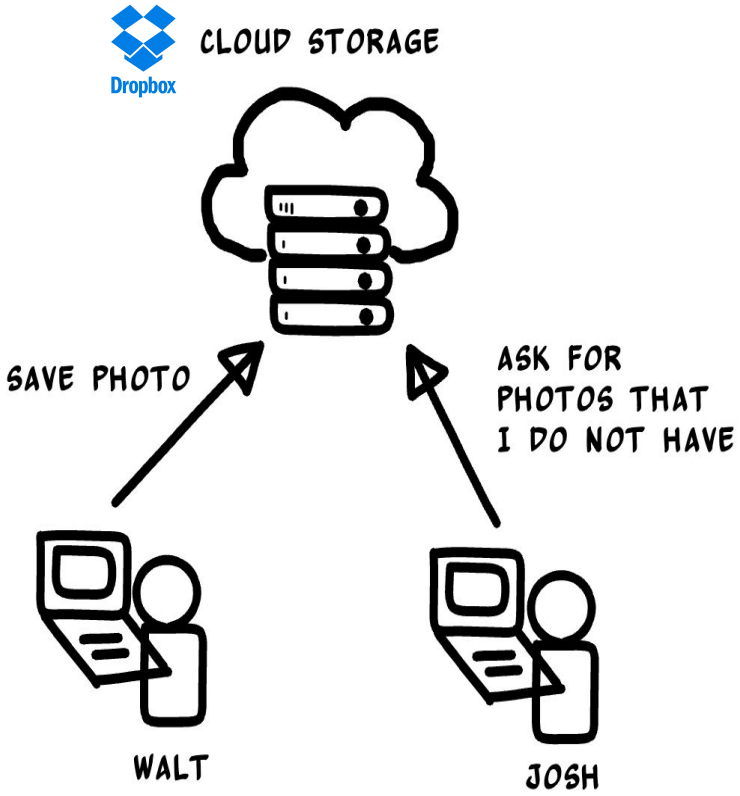
Google Photos

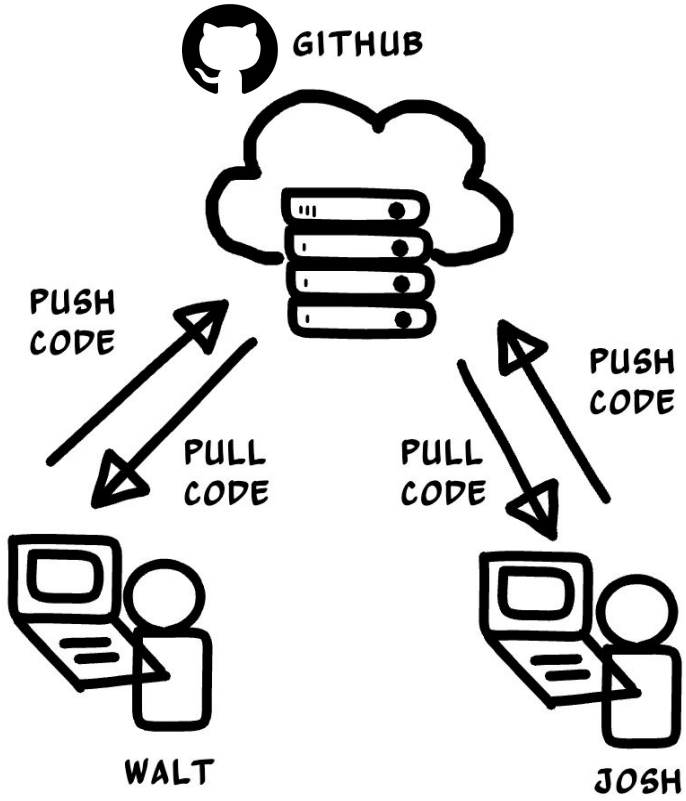


GitHub

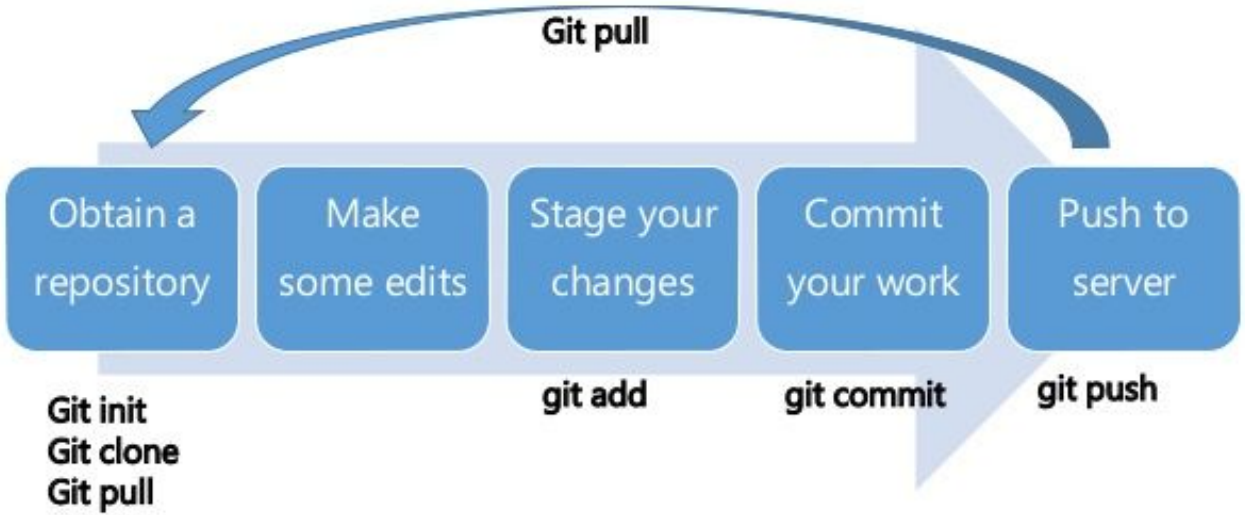
BitBucket




Dropbox
CLOUD STORAGE
SAVE PHOTO
ASK FOR PHOTOS THAT I DO NOT HAVE
WALT
JOSH


GITHUB
PUSH CODE
PULL CODE
PULL CODE
PUSH CODE
WALT
JOSH

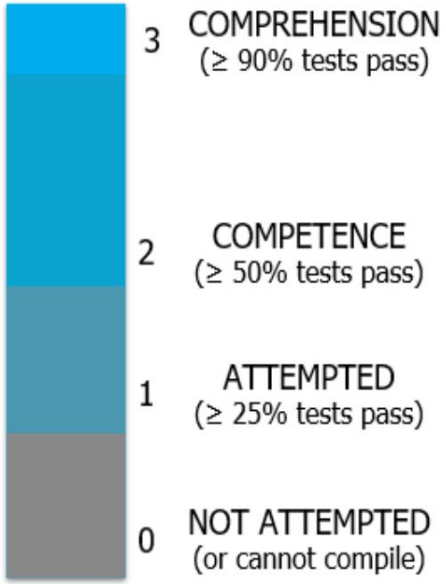
Git usages : Understanding Git Workflow



Let's Code!

Mastery and Understanding

- Our exercises focus on **mastery of key concepts.**
- **Feedback will be provided** so you know where you need to improve.
- You must remain **at or above an average of 2.0**.
- **Any work submitted must be your own**. We may ask you to explain your code to us!
- Seek out help from your classmates, academic fellows, and instructors!

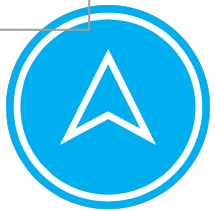


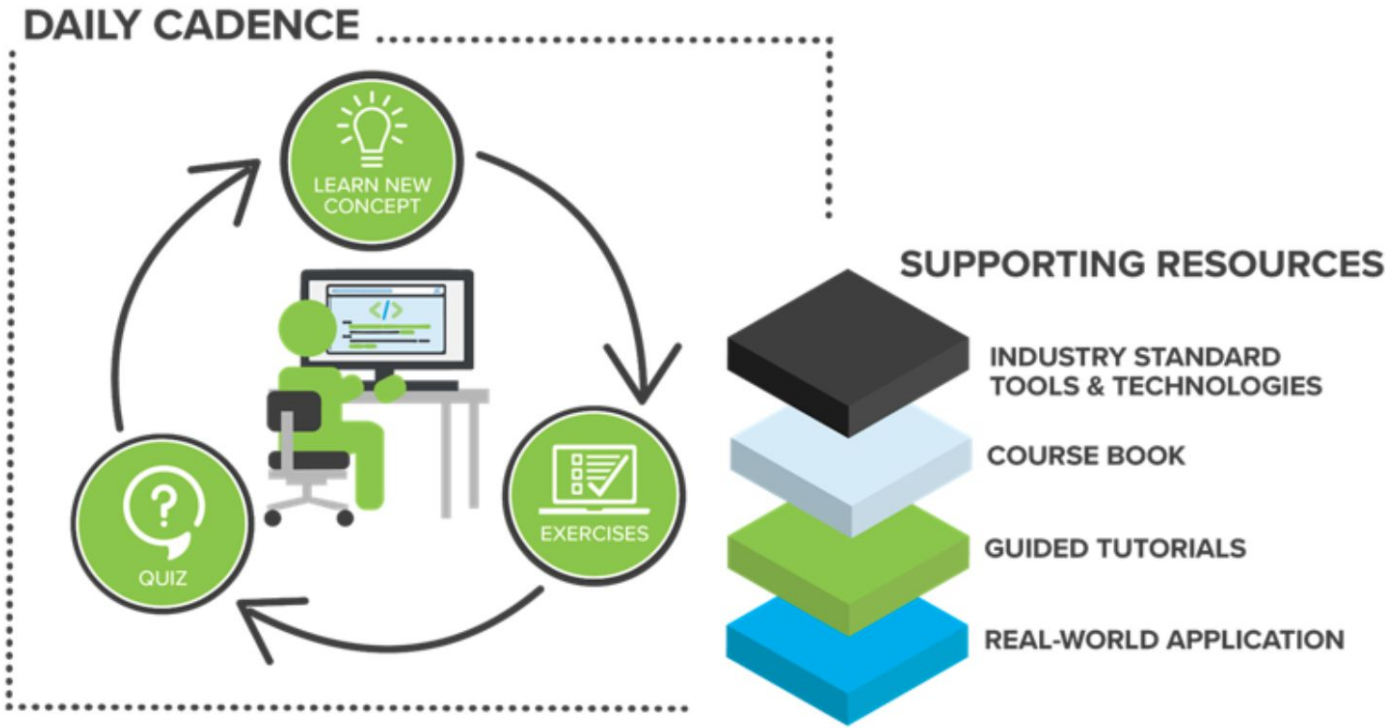
Due Dates

You will receive exercises daily (almost). You submit your work by pushing to BitBucket.

Exercise Given	Exercise Due
Monday	Wednesday 8AM
Tuesday	Thursday 8AM
Wednesday	Friday 8AM
Thursday	Monday 8AM
Friday	Tuesday 8AM

Late exercises receive a 0. You may submit late, but the highest possible score is a 2.




DAILY CADENCE
LEARN NEW CONCEPT
EXERCISES
QUIZ
SUPPORTING RESOURCES
INDUSTRY STANDARD TOOLS & TECHNOLOGIES
COURSE BOOK
GUIDED TUTORIALS
REAL-WORLD APPLICATION

Your schedule

- 8:55 AM (or earlier) - Be in class
- 9:00 AM - Class starts
- Take quiz
- A little review
- Learn new material
- Attend Pathway event
- Complete homework
- Read the Tech Elevator book in preparation for tomorrow
- Complete tutorials, if available
- REST!

QUESTIONS?