

# Welcome to DU's Coding Bootcamp!

**Register for WiFi Use:**

DU WiFi

**Open:**

Slack Desktop App & Add Photo!

**Play People Bingo!**

First two winners get a prize!



Welcome to University College and the University of Denver Boot Camp

**Dr. Renae Jabobs, Executive Director - Center for Professional Development at  
University of Denver**



# Activity: Present & Accounted For

1. Navigate to [www.bootcampspot.com](http://www.bootcampspot.com)
2. Sign in
3. Click Sessions
4. Find Today's Date
5. Mark Your Attendance



# **By the end of this session, you will:**

- Come to know your classmates as the community that you will rely on for collaborative learning.
- Know the staff who will be providing holistic support throughout the program.
- Understand the minimum requirements in order to successfully graduate from this boot camp.
- Be able to list ways to get help and support at your moments of need.

# **Student Success Manager**

## Sara Kaner

[skaner@bootcampspot.com](mailto:skaner@bootcampspot.com)

My goal is to help you successfully complete this program and make your experience in the classroom as positive as possible :)

### **Fun Facts:**

- I'm a California native, Florida Gator, Texas Longhorn, and former teacher
- I love to read
- I am obsessed with my Jack Russell mix, Millie
- I love visiting National Parks -- I've been to 22/60 so far!
- I'm a runner and a yogi



# Benjamin Machock

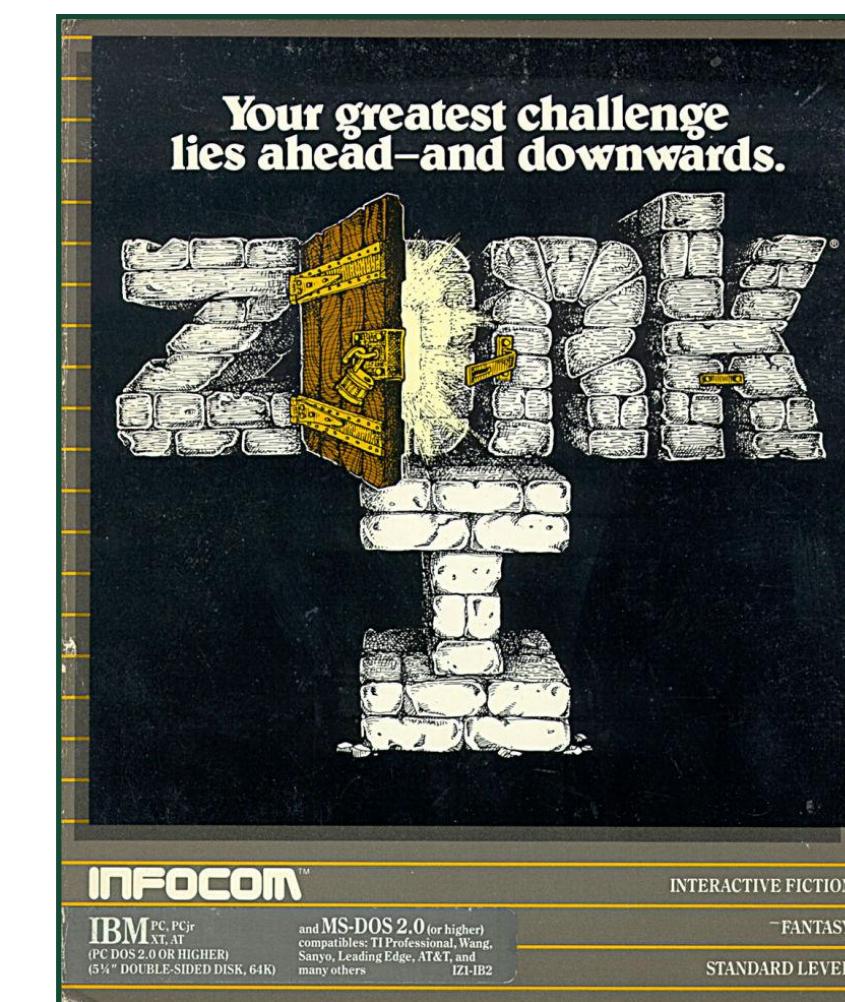
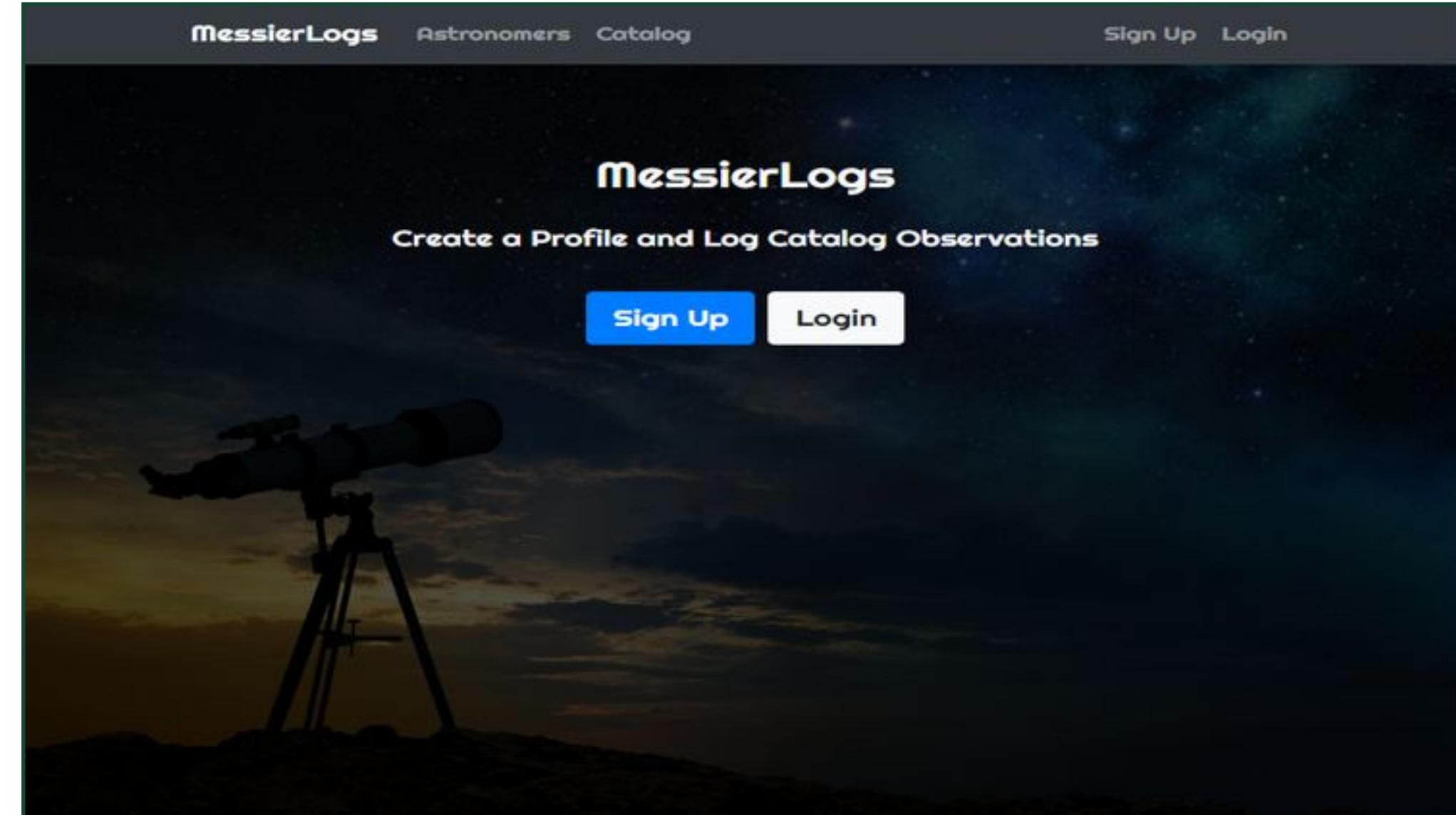
Instructor  
[bmachock@outlook.com](mailto:bmachock@outlook.com)

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My goal is to create an environment that is supportive, creative and respectful of all while ensuring you become a technically proficient developer.

## Fun Facts:

- Love Astronomy!!
- Owner of 4 Cats
- Season Tickets Broncos
- Enjoy Reading, Gaming, & Cooking



# Jason Stroup

## Teaching Assistant

jasonstroup12@gmail.com

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Goal: "Learn how to learn," to think like a developer. I'm here to help you be empathetic, driven, intellectually curious and find your passion along the way!

### Fun Facts:

- Panama, Cuba, Japan
- Lone Tree/Parker
- SaaS SE & AM -> Dev -> TSE
- Love to be Outdoors
- New father (18 week old - Mia)
- Marching Band: Tenor Sax



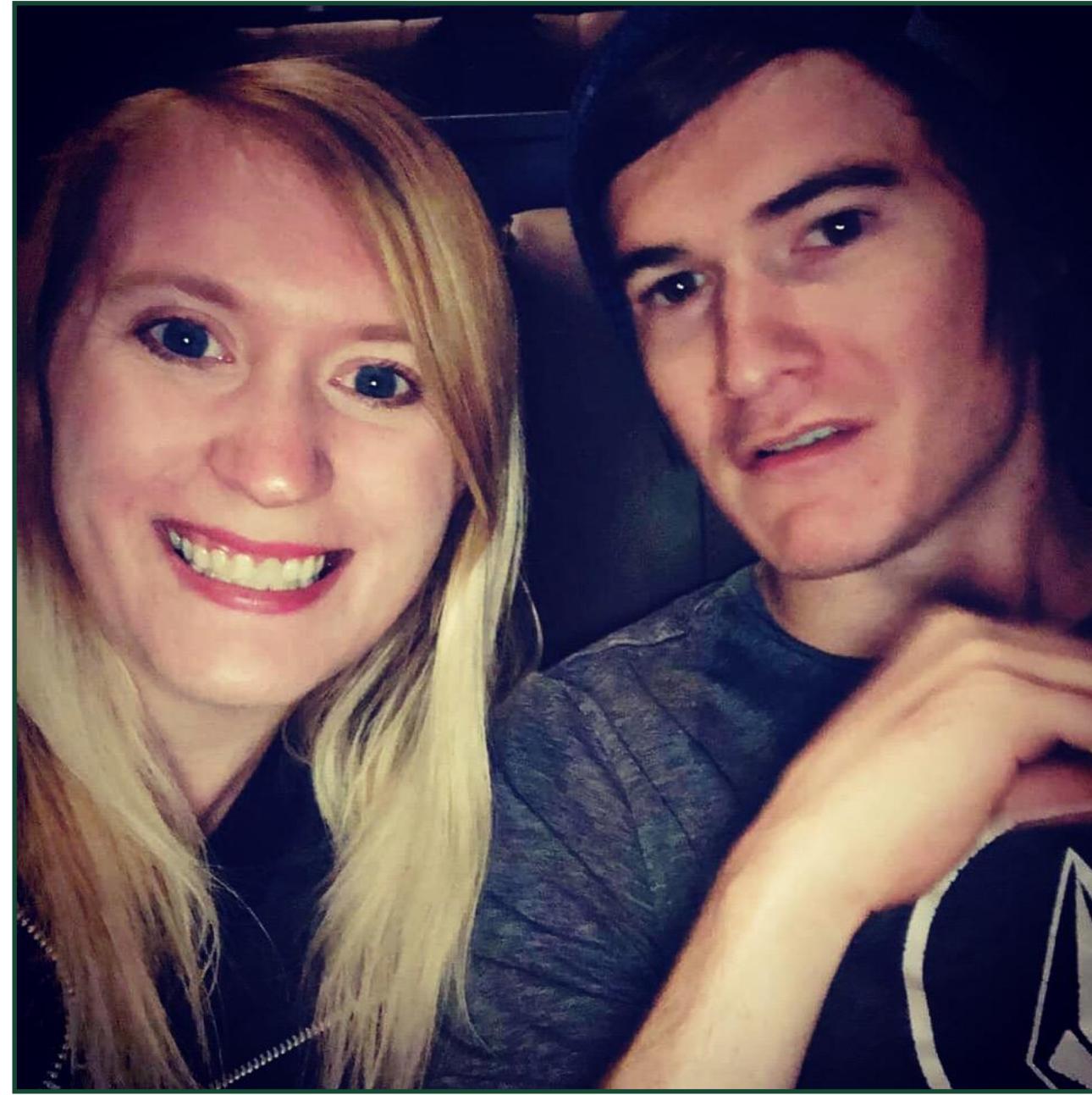
# Justin Moore

Teaching Assistant (and Tutor)

[justin.m.moore5896@gmail.com](mailto:justin.m.moore5896@gmail.com)

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My goal is to help you get the most out of this boot camp and to become a better developer along the way.



## Fun Facts:

- I am a FSF boot camp grad
- I love Magic the Gathering (EDH)
- I love Snowboarding
- My cats are the best (Seward and Lotus)
- Veep was better than GOT



**Devin Zimmerman**  
Teaching Assistant  
[dzimmerman902@gmail.com](mailto:dzimmerman902@gmail.com)

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My goal is to help student become  
unafraid of the command line  
interface. Also, to have lots of fun!

### **Fun Facts:**

- Enjoy Video Games
- Loves Watching Sports
- DCI Fan (a.k.a. Band Nerd)
- Code for Denver Member
- Music Junkie (Sorry, No Country...)
- Pescatarian



# Your turn!

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***In 30 seconds or less, share your:***

Name

Location (Live and Commuting from)

Background (Career, Education, Interests)

What is it about this class that excites you?

What is your proudest achievement?



## **Classroom Values:**

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**Progress** - We never stop improving

**Attitude** - We bring a can-do attitude

**Teamwork** - We only succeed together

**Community** - Community starts with care





# YOUR CAREER SERVICES TEAM

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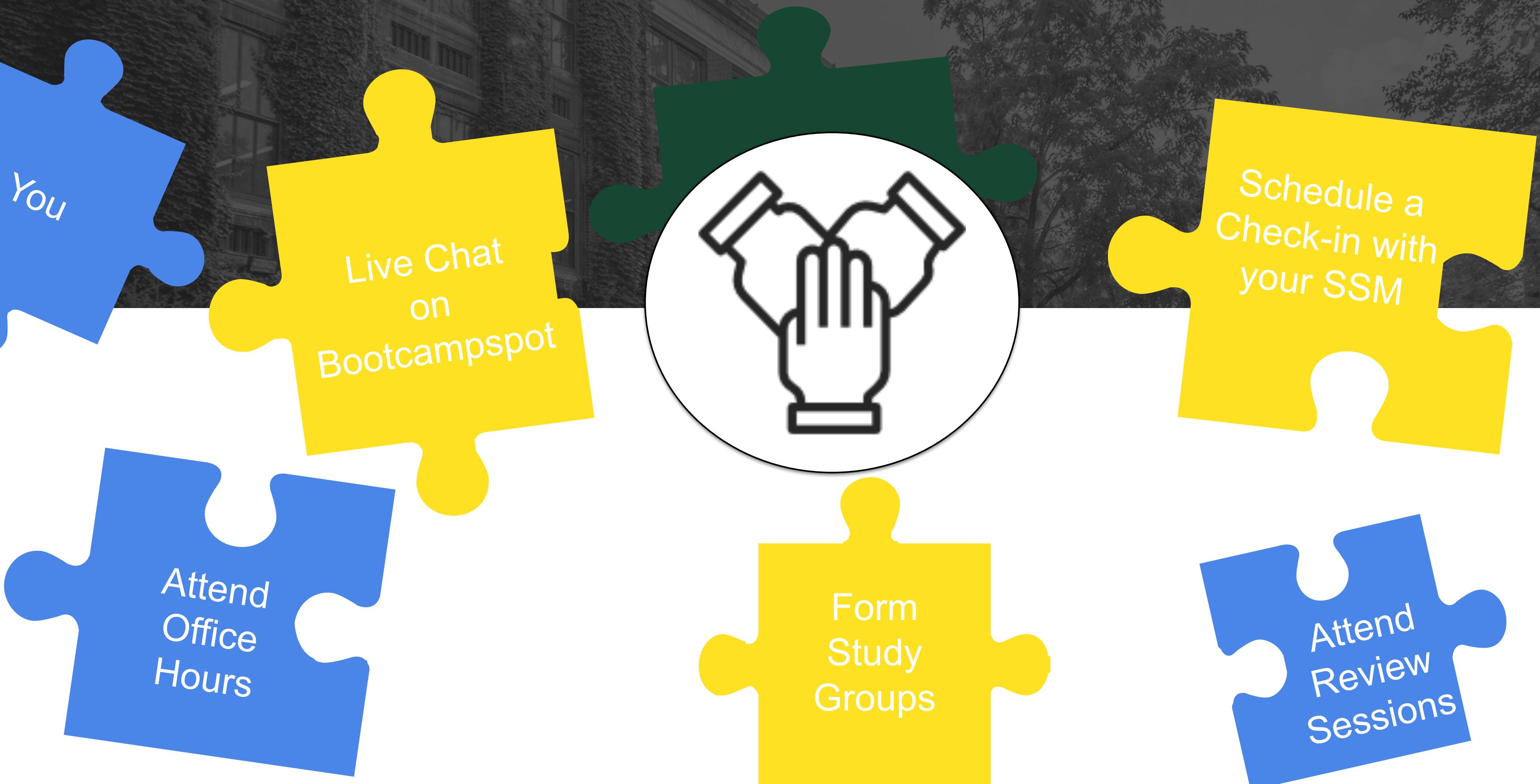
PROFILE  
COACHES

CAREER  
COACH

YOU

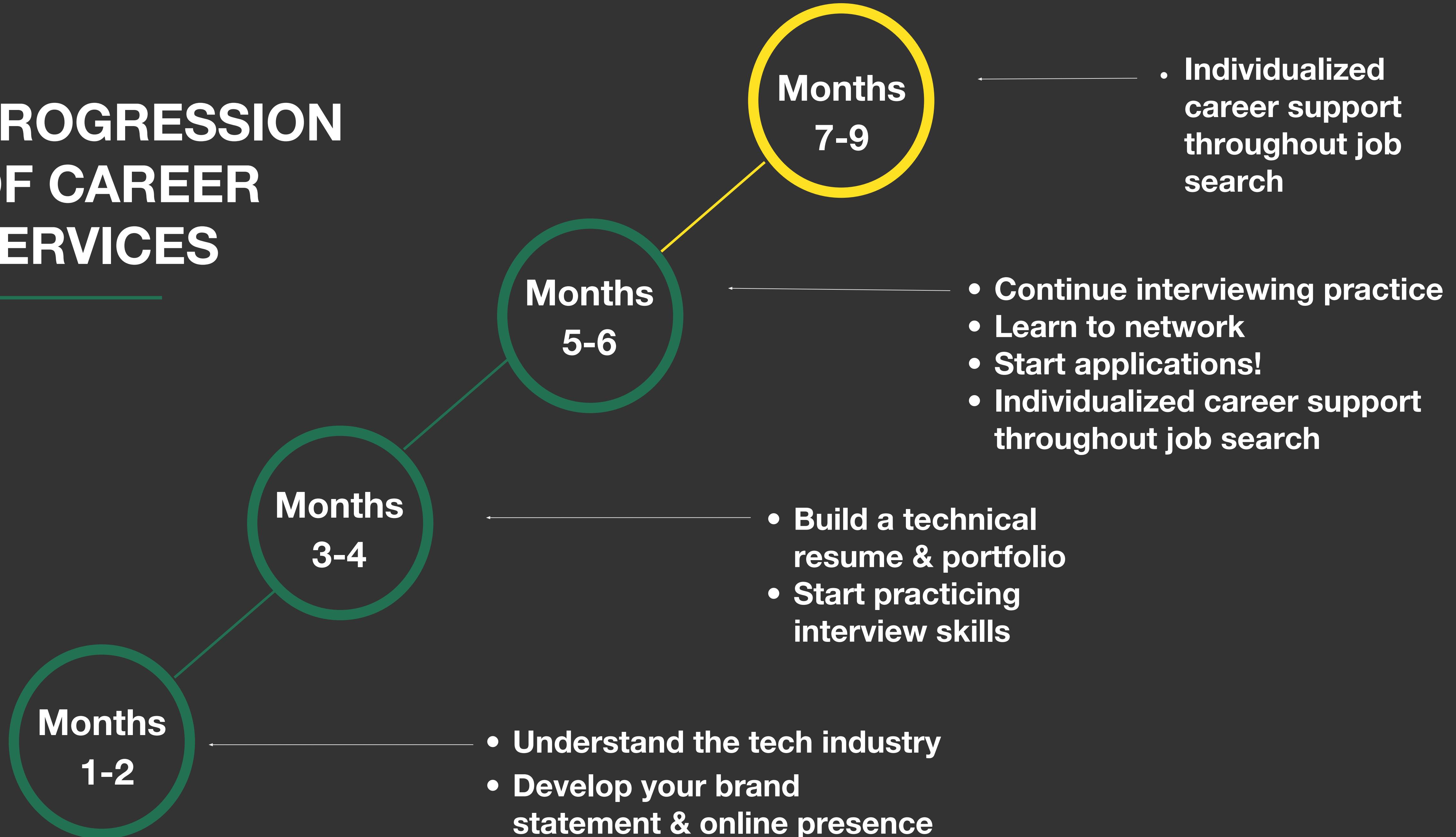
# SUPPORT STRATEGIES

You are responsible for your **success**, but you're not alone!



# PROGRESSION OF CAREER SERVICES

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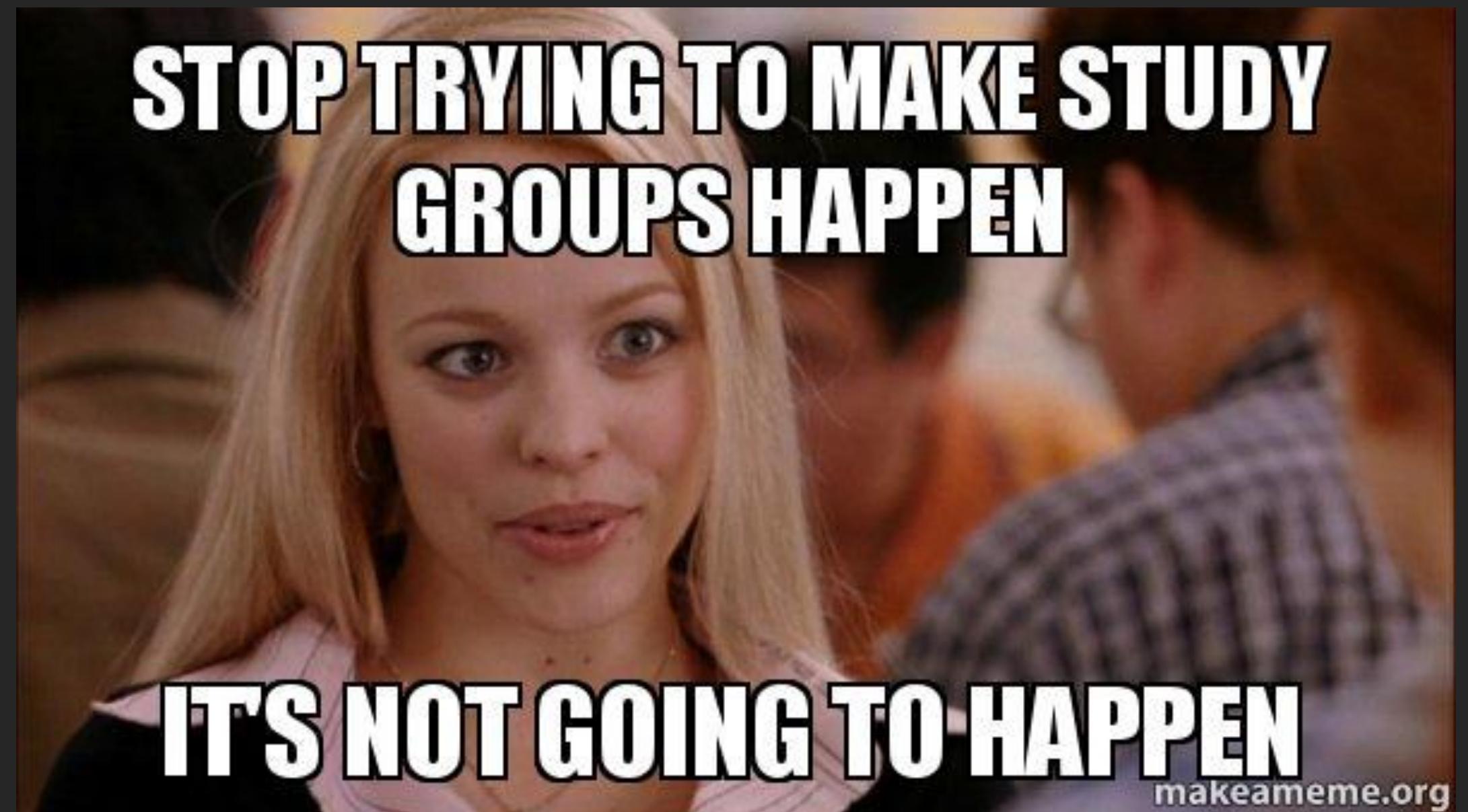


# Minimum Graduation Requirements:

- Miss no more than **4 classes** and attend class **remotely 3 times**
- Have no more than **2 zeros** on required assignments (F grades, Incompletes, or an unsubmitted assignment equals a zero)
- Participate in **all** projects
- Earn a passing grade for all three projects
- Ensure tuition is paid by the end of the program

# Activity: Landing Zones

1. Break into groups. (I'll direct you!)
2. As a group, decide if you'd like meet-up to study/work on homework together and if so, where you'll meet
3. Create a Slack message through for your group so that you all can easily communicate



# Session Objectives Completed:

- Come to know your classmates as the community that you will rely on for collaborative learning.
- Know the staff who will be providing holistic support throughout the program.
- Understand the minimum requirements in order to successfully graduate from this bootcamp.
- Be able to list ways to get help and support at your moments of need.

# Pre-Work



# Break

See you back in 15 minutes!

## Obstacle #1 – The Great Confusion

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**MY CODE DOESN'T WORK AND  
I DON'T KNOW WHY**



**MY CODE WORKS AND I DON'T  
KNOW WHY**

## Obstacle #2 - Self Doubt

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# How cool is that???

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# Remember to....

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# Software Checklist

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At this point, you should have each of these installed:

- Slack
- Visual Studio Code
- Git for Version Control
- Git Bash (Windows) or Terminal (Mac)
  - ssh -T git@github.com
- Node.js
- Gitlab
- Heroku-CLI
  - heroku --version
- Google Chrome

# Accounts Checklist

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You should also now have accounts for:

- GitLab (with SSH Integration)
- Heroku
- LinkedIn
- Stack Overflow

# Self-Check

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Let's do some quick checks of the following

- ✓ Visual Studio Code Check
- ✓ Git Bash / Terminal Check
- ✓ Node Check
- ✓ Git Check
- ✓ Heroku Check

# Daily Schedule

For Each class we'll run through the following:

- Set Objectives
- Brief Background Lecture
- Watch Me / Coding Demos
- Code Discussions
- In-Class Exercises
- Project Work

# On the Modern Web

# Full-Stack Development?

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# The “Magic” of YouTube

A screenshot of the YouTube homepage. The URL in the address bar is <https://www.youtube.com>. The search bar contains the query "how to be awesome". Below the search bar, there is a list of suggested search terms. On the left, there are "TODAY Recommendations" featuring a video thumbnail of Brad Pitt and Angelina Jolie. In the center, there is a list of videos under the heading "Popular Videos - Movies & Walt Disney by #Movies". The first video in this list is "24 Historical Inaccuracies in Disney Movies" by mental\_floss.

how to be awesome|  
how to be awesome  
how to be awesome at everything  
how to be awesome in school  
how to be awesome at skateboarding  
how to be awesome at agario  
how to be awesome at basketball  
how to be awesome at soccer  
how to be awesome in middle school  
how to be awesome kid president  
how to be awesome in minecraft

**TODAY** Recommendations

**Angelina Jolie, Brad Pitt Discuss Marriage, New Film, Cancer Fig...** TODAY 2,091,579 views • 2 months ago

**'Pretty Woman' Cast Reunites 25 Years Later | TODAY** TODAY 1,491,399 views • 9 months ago

**Amy Schumer On Body Image, Kardashians, Style (Full...)** TODAY 556,855 views • 3 months ago

**Popular Videos - Movies & Walt Disney by #Movies**

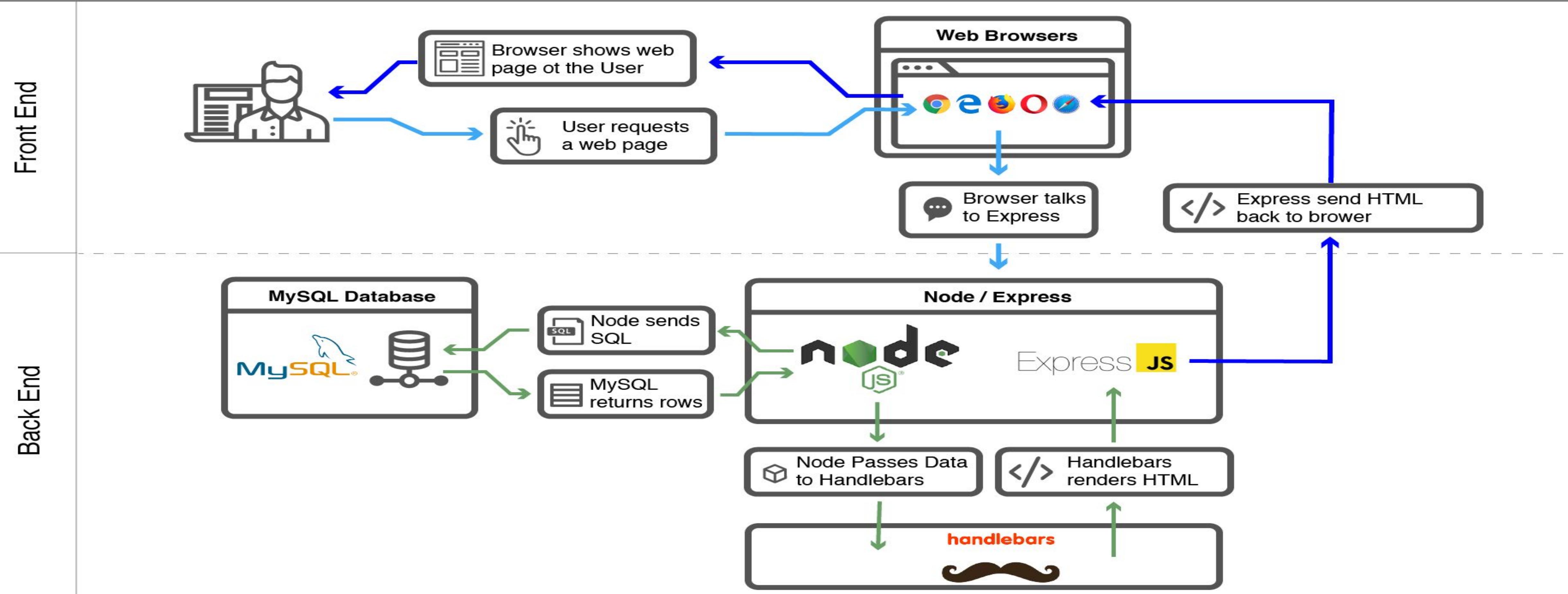
**24 Historical Inaccuracies in Disney Movies - mental\_floss Li...** Mental Floss 142,518 views • 3 days ago

**10 Hidden Details In Disney Movies** Screen Rant 11,553,738 views • 5 months ago

**Walt Disney Movies 2015 - Animation Movies 2015 English...** Geroy Donothe 186,964 views • 4 months ago

# Full-Stack Development

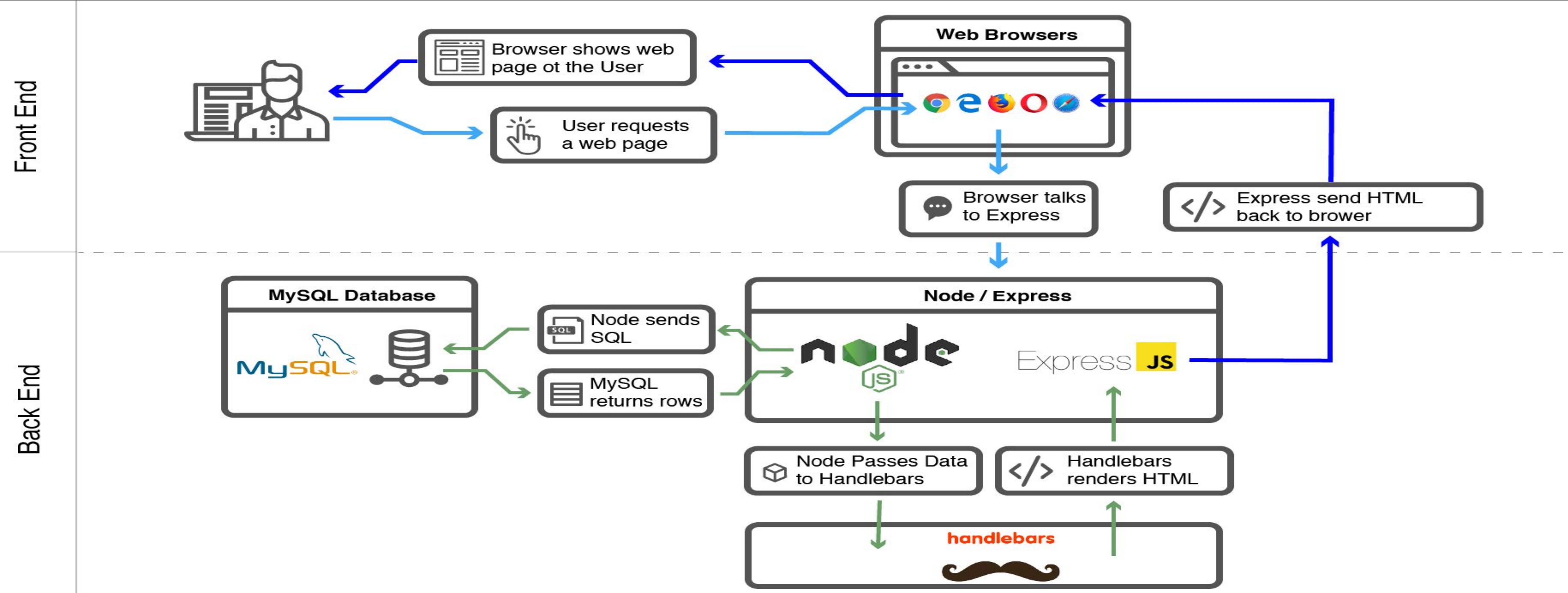
## FSF Flow



In modern **web apps**, there's a constant back-and-forth communication between two key components: the visuals displayed on the user's browser (**frontend**) and the data and logic stored on the server (**backend**).

# Full-Stack Development

## FSF Flow



Full-Stack Development is the concept of building every aspect of the web application – from the visuals and interactions, to the data transfer and processing.

# Full-Stack Development

## The Browser

- HTML
- CSS
- JavaScript
- jQuery
- Bootstrap
- SEO

## API Interaction

- APIs (Consuming)
- JSON
- AJAX
- Real Time Cloud Database via Firebase

## Cutting Edge Development

- React.js

## Dev Tools

- Heroku
- Git
- GitHub

## Databases

- MySQL
- MongoDB

## Server Side

- Templating Engines
- Sessions
- Writing tests
- Node.js
- Express.js
- Creating APIs
- MVC
- User Authentication
- ORM (Sequelize)

## CS Fundamentals

- Algorithms
- Design Patterns

Let's Get Crackin'

# Intro to Console / Terminal

```
OSXDaily@hyrule:/$ ls -l
total 16053
drwxrwxr-x+ 112 root admin 3.7K Jan 29 16:49 Applications/
drwxrwxr-x  15 root admin 510B Jul 21 2011 Developer/
drwxrwxr-x   7 root admin 238B Aug  9 15:28 Incompatible Software/
drwxr-xr-x+  62 root wheel 2.1K Jan 29 13:47 Library/
drwxr-xr-x@  2 root wheel 68B Jun 20 2012 Network/
drwxr-xr-x+  4 root wheel 136B Jul 26 2012 System/
lrwxr-xr-x   1 root admin 60B Mar 10 2011 User Guides And Information@ ->
/Library/Documentation/User Guides and Information.localized
drwxr-xr-x   9 root admin 306B Jan 25 14:00 Users/
drwxrwxrwt@  4 root admin 136B Jan 29 13:56 Volumes/
drwxr-xr-x@  39 root wheel 1.3K Jan 29 13:47 bin/
drwxrwxr-t@  2 root admin 68B Jun 20 2012 cores/
dr-xr-xr-x   3 root wheel 4.3K Jan 29 13:56 dev/
lrwxr-xr-x@  1 root wheel 11B Jul 26 2012 etc@ -> private/etc
dr-xr-xr-x   2 root wheel 1B Jan 29 14:08 home/
-rw-r--r--@  1 root wheel 7.8M Aug 25 00:49 mach_kernel
dr-xr-xr-x   2 root wheel 1B Jan 29 14:08 net/
drwxr-xr-x@  4 root admin 136B Dec  2 14:44 opt/
drwxr-xr-x@  6 root wheel 204B Jul 26 2012 private/
drwxr-xr-x@  62 root wheel 2.1K Jan 29 13:47 sbin/
lrwxr-xr-x@  1 root wheel 11B Jul 26 2012 tmp@ -> private/tmp
drwxr-xr-x@  11 root wheel 374B Dec  2 14:45 usr/
lrwxr-xr-x@  1 root wheel 11B Jul 26 2012 var@ -> private/var
OSXDaily@hyrule:/$
```

# INSTRUCTOR DEMO

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*Instructor: Demo  
(1-ConsoleCommands)*

# > YOUR TURN!

**Activity:** Get Situated | **Suggested Time:** 1 min

## Assignment:

- Make a folder on your desktop named code.
- Put all of your code that you do inside of that folder.

## Best Practices:

- Always use lowercase for folder and file names.
- Never put in spaces in your folder and file names.
- Use dashes to separate.

## Assignment:

From the Terminal / Console and using only the command line, create:

- A new folder with the name of `first_day_stuff`.
- A new HTML file with the name of `first_day.html`.
- Open the current folder containing the new HTML file.

## Bonus:

- Create multiple directories/folders with the names `one_folder` and `second_folder` in one command.
- Create multiple files with the names `one.html` and `two.html` in one command in the `first_day_stuff` directory.

*Discuss with Neighbors*

Hello, HTML

# <title> Intro to HTML </title>



- HTML is one of the three base languages behind every single website.
- It defines all of the basic content and a *bit* of formatting.

# > YOUR TURN

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## Assignment:

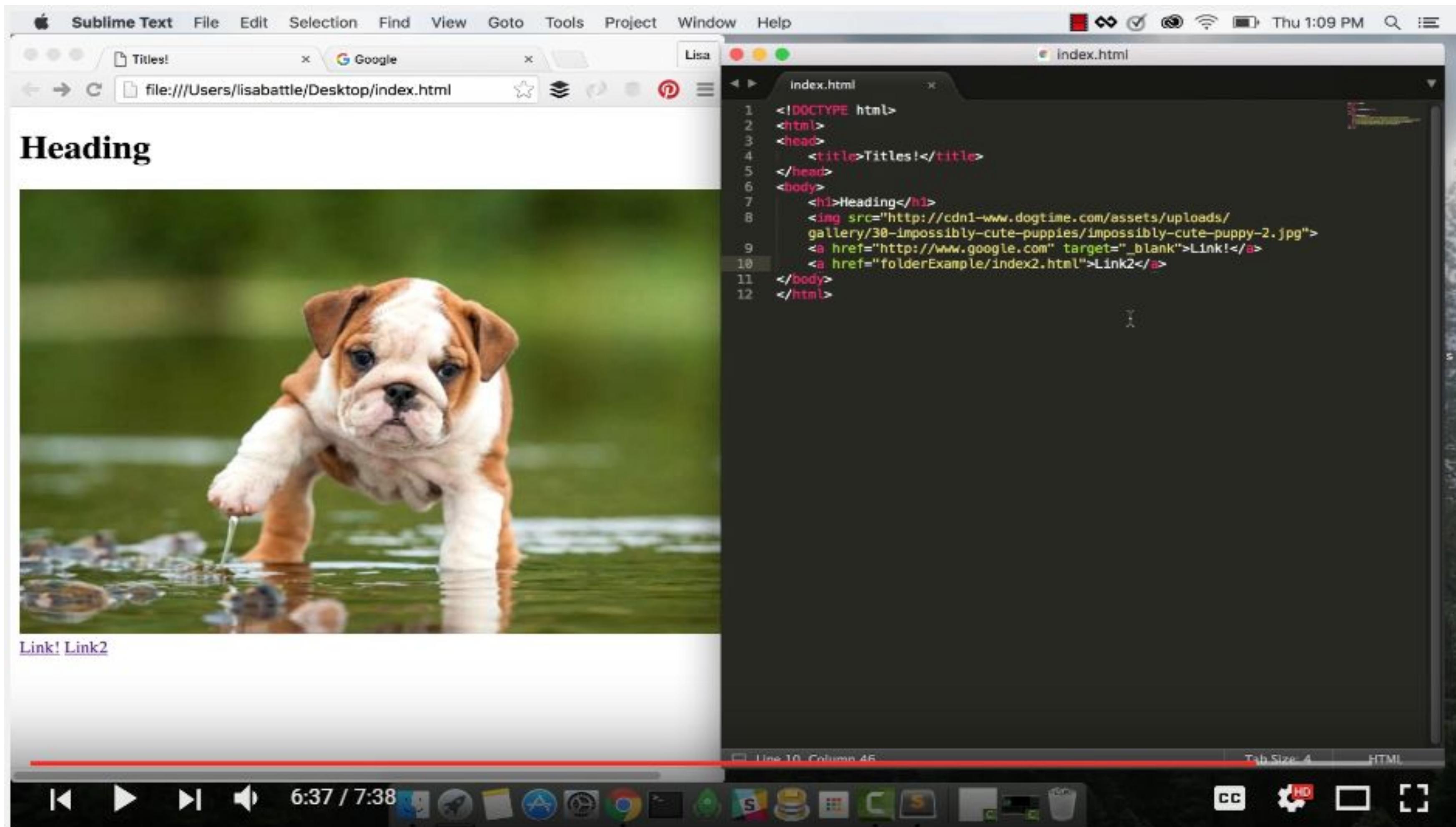
In a new HTML file, create the basic structure of an HTML document and include the following in it:

- DOCTYPE declaration.
- Head tag with a title tag.
- H1 tag with a title of your choice.
- Embed an image.
- Create the following three links on your page:
  - One link that has target="\_blank" which opens a new tab when clicked
  - Make the second link bold.
  - Make the third link a placeholder so it goes nowhere.

## Bonus:

- Create an ordered list of steps to make a sandwich.
- Create an unordered list of 5 bands/musicians you like.
- Create a table with 2 columns (animal class and animal name) and 4 rows of animals.
- Use an alternate way of separating links without line breaks.
- Embed a YouTube video of your favorite band/musician.

# YouTube Video Walkthrough!



<https://www.youtube.com/watch?v=ieb6Svbc10E&index=1&list=PLgJ8UgkiorCnMLsUevoQRxH8t9bt7ne14>

<title> Intro to HTML </title>

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*How'd it go?*

# Homework

# Homework “Due”: Next Class

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## By Next Class:

- Figure out where the GitLab Repo is for our class.
- Re-do the Terminal example from class today.
- Re-do the HTML example from class today.
  - Watch the Walkthrough Video if you felt a bit lost.