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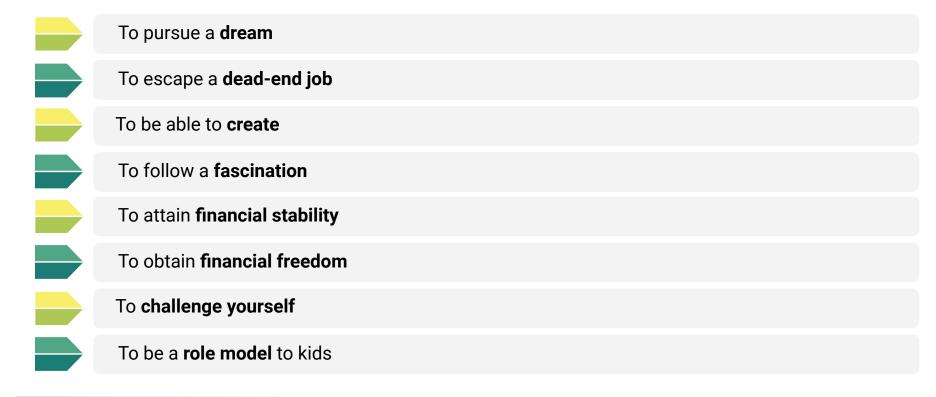


Your Goals



Your Goals

And why do you want a new career?





Your Goal = Our Goal

As instructors, we take your goals very, very seriously.

Support Team Promise

If you're willing to put in the time and take our advice, we're here to help you 100% of the way.

This goes for everyone working on this program:

- Instructors
- TAs
- Student Success
 Team
- Career coaches
- Everyone else!





But Remember:

Nothing good comes easily.

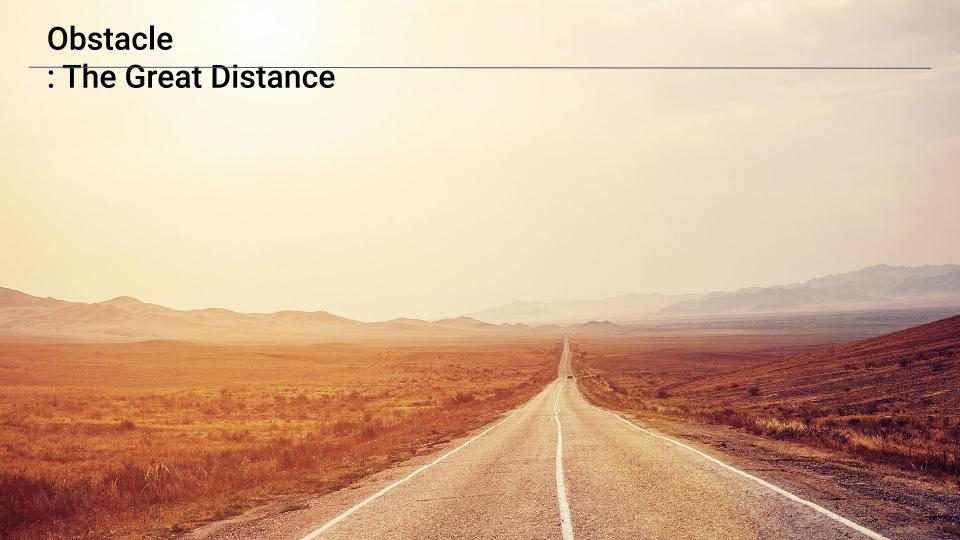


A person who has never made a mistake has never tried to do something new.

THAT IS THE WAY TO LEARN THE MOST... WHEN YOU ARE DOING SOMETHING WITH SUCH ENJOYMENT THAT YOU DON NOTICE THAT TIME PASSES



Nothing comes easy.
As students, you face three
HUGE obstacles.



Nothing Comes Easy

Learning to code requires two things:



Maintaining the self-confidence necessary to believe that YOU CAN DO THIS.

Learning Can Be Frustrating



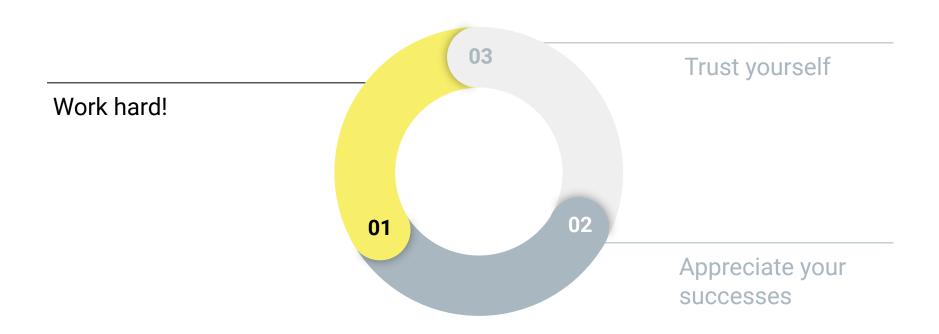
You can't tell whether you're learning something when you're learning it—in fact, *learning feels a lot more like frustration*.

What I've learned is that during this period of frustration is actually when people improve the most, and their improvements are usually obvious to an outsider. If you feel frustrated while trying to understand new concepts, try to remember that it might not feel like it, but you're probably rapidly expanding your knowledge.

—Jeff Dickey, author of Write Modern Web Apps with the MEAN Stack: Mongo, Express, AngularJS, and Node.JS (Peachpit Press, 2014)

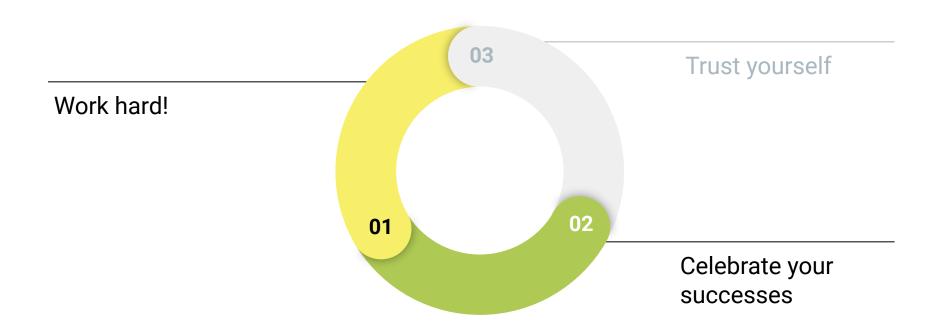
Advice for the Journey

Throughout this course, always remember to:



Advice for the Journey

Throughout this course, always remember to:



Advice for the Journey

Throughout this course, always remember to:



And Remember...

If you want to go fast, go alone. If you want to go far, go with a team.







Daily Schedule

In each class, we'll cover the following:



Set objectives



Brief background lecture



Watch me/coding demos



Code discussions



In-class exercises



Project work

Daily Schedule

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Set objectives



Brief background lecture



Watch me/coding demos



Code discussions



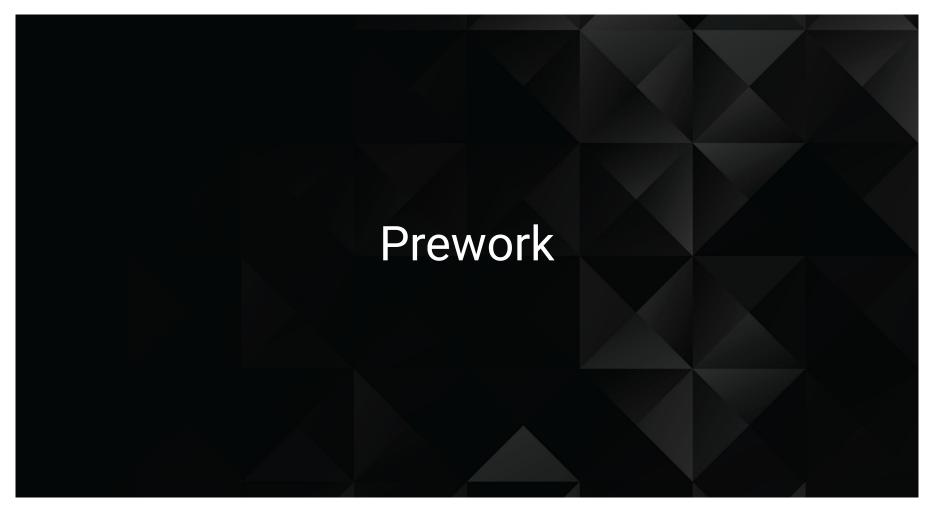
In-class exercises



Project work



This is the super important stuff—ALWAYS BE CODING!



Software Checklist

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

- Slack
- Visual Studio Code
- **Git**
- Git Bash (Windows) or Terminal (Mac)
- Node.js
- Heroku-CLI
- Google Chrome

Accounts Checklist

You should also have accounts for:

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

Self-Check

Let's do some quick checks of the following:

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



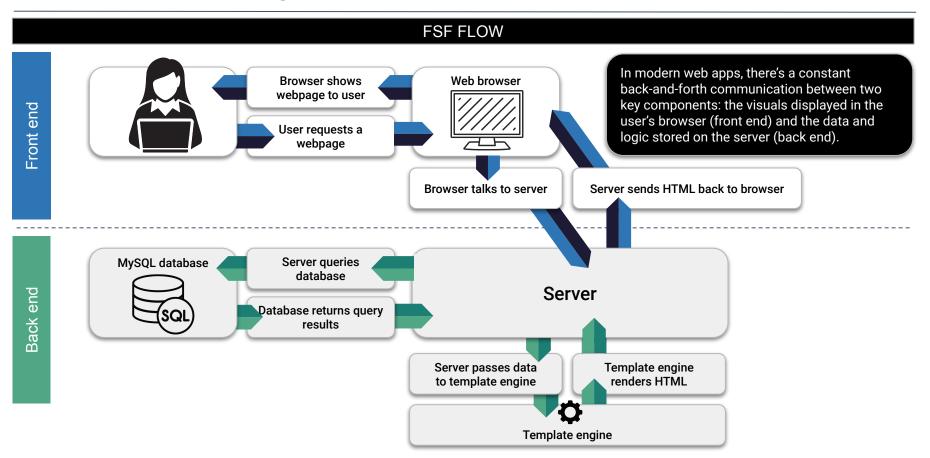
What Exactly Is Full-Stack Development?



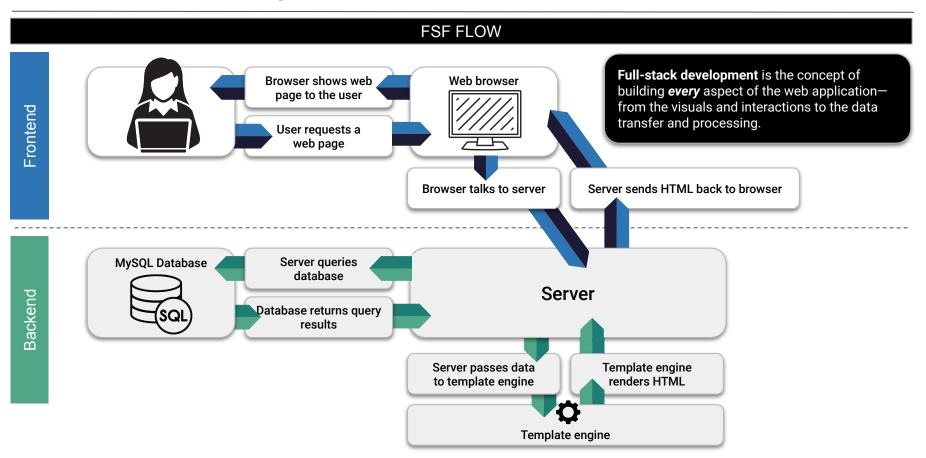
The "Magic" of YouTube



Full-Stack Development



Full-Stack Development



Full-Stack Development

The Browser	Dev Tools	Server Side
HTML	Heroku	Templating engines
CSS	Git	Sessions
JavaScript	GitHub	Writing tests
jQuery	Databases	Node.js
Bootstrap	MySQL	Express.js
SEO	MongoDB	Creating APIs
API Interaction		MVC
APIs (Consuming)		User authentication
JSON		ORM (Object-relational mapping)
AJAX		CS Fundamentals
Real-time cloud database via Firebase		Algorithms
Cutting-Edge Development		Design patterns
React.js		



Intro to Console/Terminal

```
000
                              Macintosh HD - bash - 80×26
       Terminal
                                             bash
                                                                bash
                           nano
OSXDaily@hyrule:/$ ls -l
total 16053
drwxrwxr-x+ 112 root admin 3.7K Jan 29 16:49 Applications/
                            510B Jul 21 2011 Developer/
drwxrwxr-x 15 root admin
            7 root admin
                            238B Aug 9 15:28 Incompatible Software/
drwxrwxr-x
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/
                             60B Mar 10 2011 User Guides And Information@ ->
lrwxr-xr-x
             1 root admin
/Library/Documentation/User Guides and Information.localized
             9 root admin
                          306B Jan 25 14:00 Users/
drwxr-xr-x
drwxrwxrwt@ 4 root admin 136B Jan 29 13:56 Volumes/
drwxr-xr-x@ 39 root wheel
                          1.3K Jan 29 13:47 bin/
                             68B Jun 20 2012 cores/
drwxrwxr-t@ 2 root admin
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
             2 root wheel
                            1B Jan 29 14:08 home/
dr-xr-xr-x
-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/
             6 root wheel
                            204B Jul 26 2012 private/
drwxr-xr-x@
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
                            374B Dec 2 14:45 usr/
drwxr-xr-x@ 11 root wheel
                             11B Jul 26 2012 var@ -> private/var
lrwxr-xr-x@ 1 root wheel
OSXDaily@hyrule:/$
```



Instructor Demonstration Let's Get Crackin'—Intro to Console



Activity: Console Commands



Activity: Console Commands

Create a folder on your desktop named code. You'll put all the code you write today inside that folder.

Best Practices:



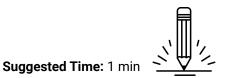
Always use lowercase for folder and file names.



Never put spaces in folder and file names.



Use dashes to separate words in folder and file names.



Activity: Console Commands

From the Terminal/console and using only the command line:



Create a new folder with the name first-day-stuff.



Create a new HTML file with the name 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 with one command.

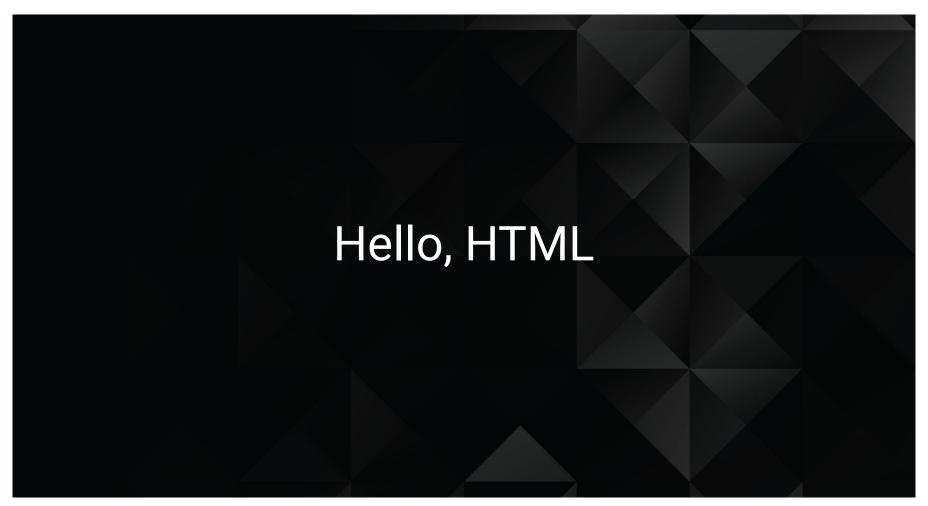


Create multiple files with the names one.html and two.html with one command in the first-day-stuff directory.



Intro to Console: Discuss with Neighbors





<title>Intro to HTML</title>

HTML5

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





Activity:Intro to HTML

Suggested Time: 5 minutes



Activity: Intro to HTML

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
- An embedded image

Now add the following three links to your page:

- One link that has target="_blank" so that it opens a new tab when clicked
- One link that is bold
- One link that is only a placeholder (it goes nowhere)

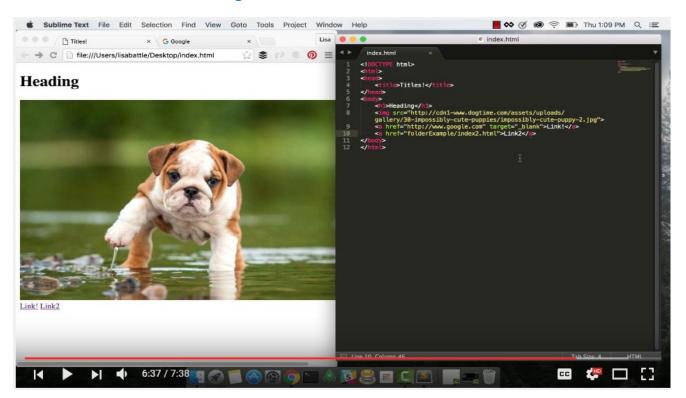
BONUS!

- Create an ordered list of steps to make a sandwich
- Create an unordered list of five bands/musicians you like
- Create a table with two columns (animal class and animal name) and four 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

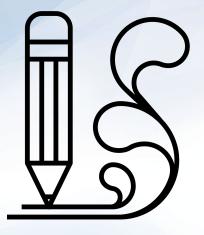
Watch the walkthrough video:



<title>Intro to HTML</title>



How'd it go?



Homework Assignment



Homework Activity

01

Figure out where the GitHub repo is for our class.

02

Redo the Terminal example from today's class.

03

Redo the HTML example from today's class. (Watch the <u>walkthrough video</u> if you feel a bit lost.)

