

Welcome to Houston Coding Bootcamp Delivered by UT Austin

Open GitHub Class Repository:

<https://github.com/the-Coding-Boot-Camp-a-t-UT/UTA-HOU-FSF-PT-06-2020-U-C>

Open:

- 1. Slack Desktop App & add photo**
- 2. BootCamp Spot & add photo**



First Group Project

1. Navigate to 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 complete this boot camp.
- Be able to list ways to get help and support at your moments of need.

Michelle Bury

Senior Student Success Manager

Fastest way to reach me:

mbury@bootcampspot.com

Schedule time to meet virtually:

[https://calendly.com/michellebury/
1-1-zoom](https://calendly.com/michellebury/1-1-zoom)

Office Hours: 10am-7pm M-TH



The (Tay) Mai

Teaching Assistant

Graduated July 2018 from this coding bootcamp

Used to manage pizza stores (Yay Marco's pizza)

Currently working as Web/Mobile Applications Developer.



Paul Viola

Instructor

I have a degree in Anthropology

I enjoy homebrewing my own kombucha

Currently working as a Software Developer at
HCSS



Your turn!

In 30 seconds or less, please share:

Name

Location (Live and Commuting from)

Background (Career, Education, Interests)

One Fun Fact about yourself



Virtual Classes

- Stay on camera (front lit is best)
- Set up a second monitor
- Reduce distractions
- Arrive on time or early for office hours
- Engage on Slack throughout class

Virtual Community

- Create virtual study groups using personal (free) Zoom rooms
- Post questions, memes, and resources on Slack
- Have fun! (dress up/propose a theme)





CAREER
MATERIAL
ADVISOR



CAREER
DIRECTOR
(COACH)

**YOUR
CAREER SERVICES
TEAM**

YOU

SUPPORT STRATEGIES

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



Our Classroom Values

We Never Stop Improving

We lend an ear to both praise and feedback to deliver our best work. This process is a journey and not a destination.

We Bring a Can-Do Attitude

We confront challenges with enthusiasm and figure things out. We value effort, commitment, learning, and an attitude toward growth.

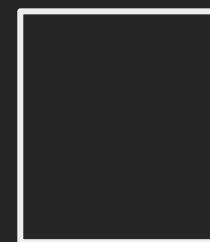
We Only Succeed Together

Teamwork is critical to our success, and we place a tremendous value on how we work together across the entire cohort.

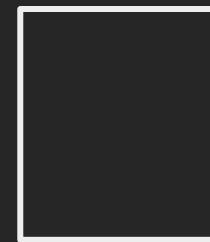
We Respect the Rights, Differences, and Dignity of Others

We want to create a learning space where people can bring their full selves. In order to do this we must all respect the diversity of our experiences and how it contributes to our learning.

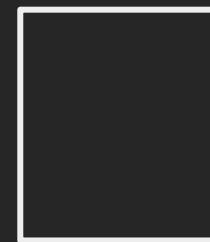
Minimum Graduation Requirements:



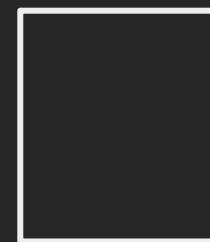
Miss no more than 8 classes



Have no more than 2 unsubmitted / incomplete homeworks



100% meaningful participation in all projects



Keep your payment current



Drop Deadline (7/9/2020 at 6:30pm)

Let's Review What We've Covered So Far:



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 complete this bootcamp.

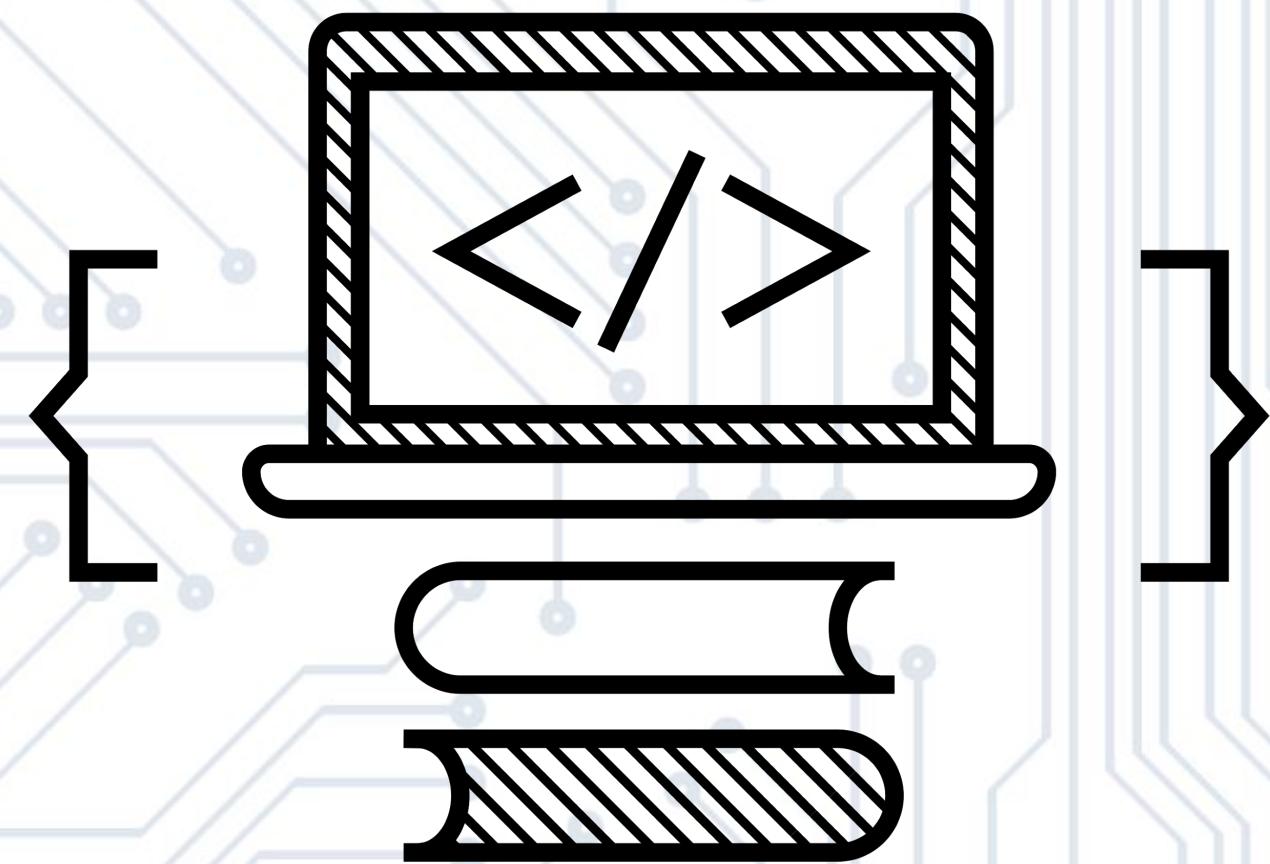


Be able to list ways to get help and support at your moments of need.

Break

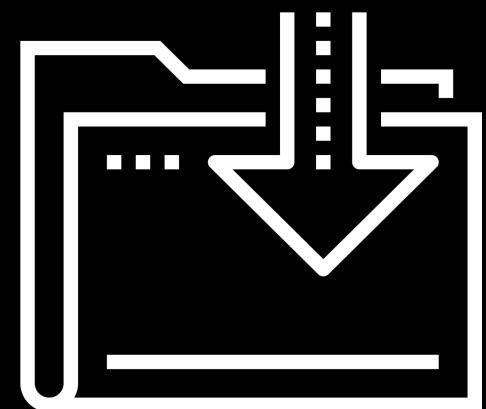
See you back
in 15 minutes!





The Zen of Coding

Web Development Boot Camp
Lesson 1.1



The Path of Learning

Your Goals

What are your goals?



Your Goals

And why do you want a new career?



To pursue a **dream**



To escape a **dead-end job**



To be able to **create**



To follow a **fascination**



To attain **financial stability**



To obtain **financial freedom**



To **challenge yourself**



To be a **role model** to kids



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.

Our Keys to Success

Don't Be This Person:





This Should Be You

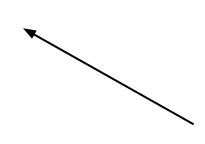
Our Mantra for Today and Beyond

When it comes to web development...



I know nothing.

You.



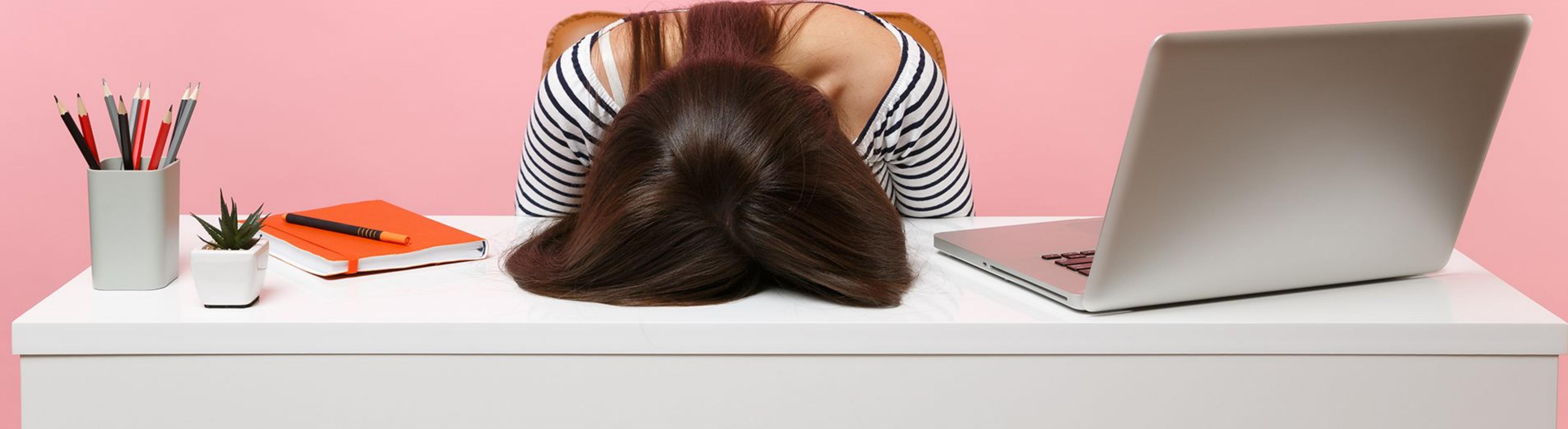
The Path of Learning

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

Obstacle #1: The Great Confusion

My code doesn't work and I don't know why.

My code works and I don't know why.



Obstacle #2: The Great Doubt

“Maybe I’m just dumb.”

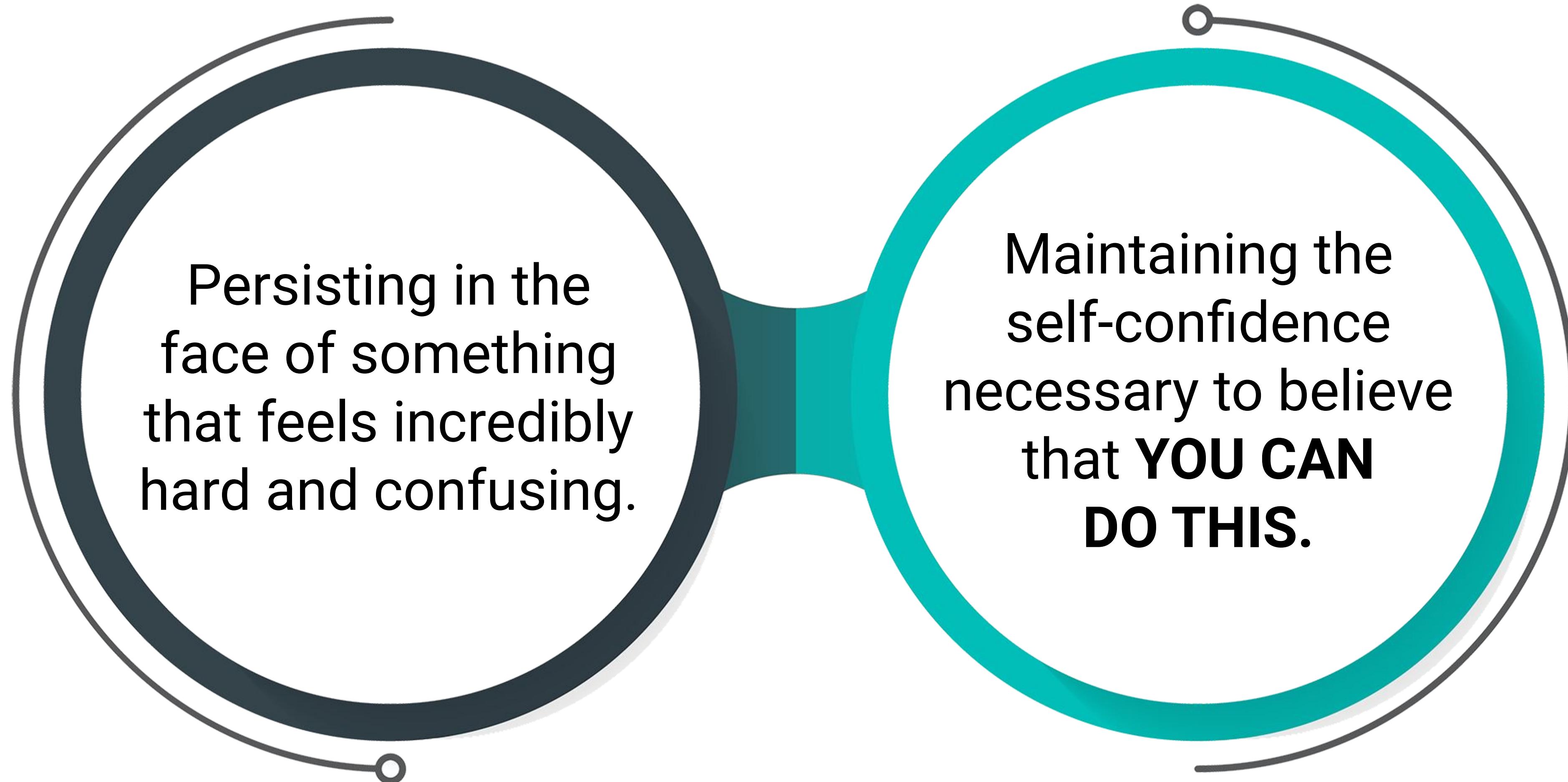


Obstacle #3: The Great Distance



Nothing Comes Easy

Learning to code requires two things:



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*.

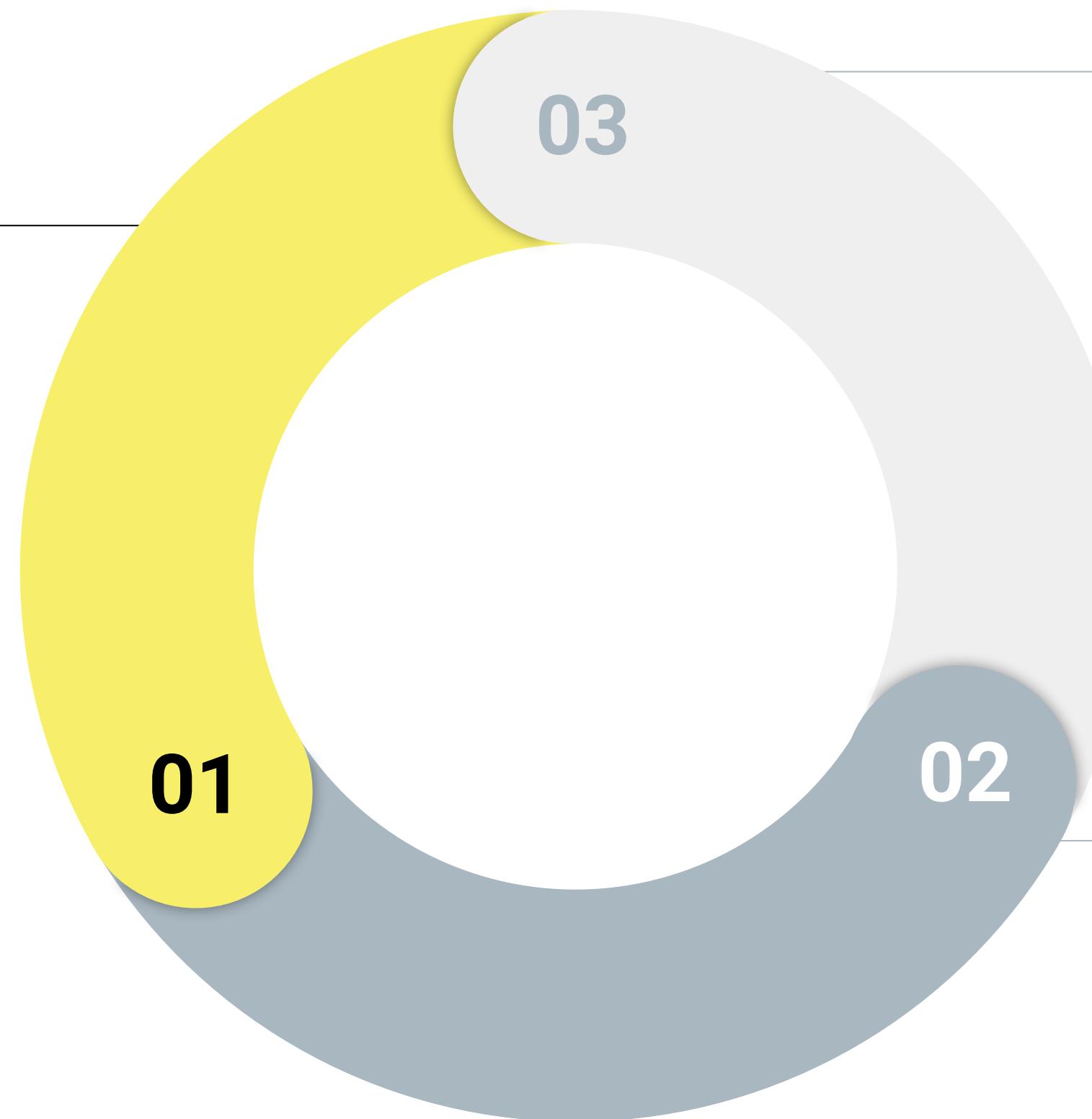
What I've learned is that during this period of frustration is actually when people improve the most, and their improvements are usually obvious to an outsider. If you feel frustrated while trying to understand new concepts, try to remember that it might not feel like it, but you're probably rapidly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



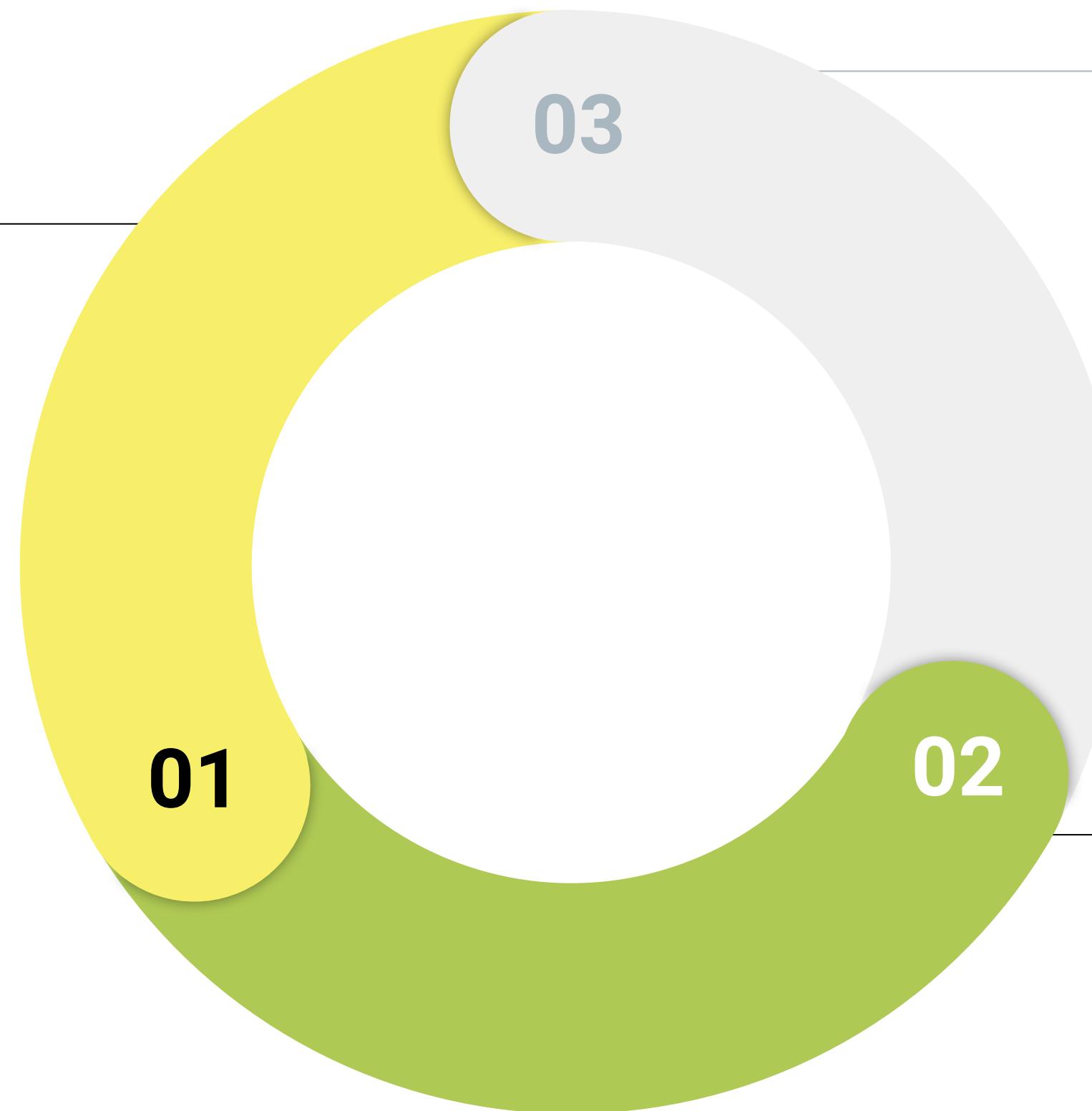
Work hard!

Trust yourself

Appreciate your
successes

Advice for the Journey

Throughout this course, always remember to:



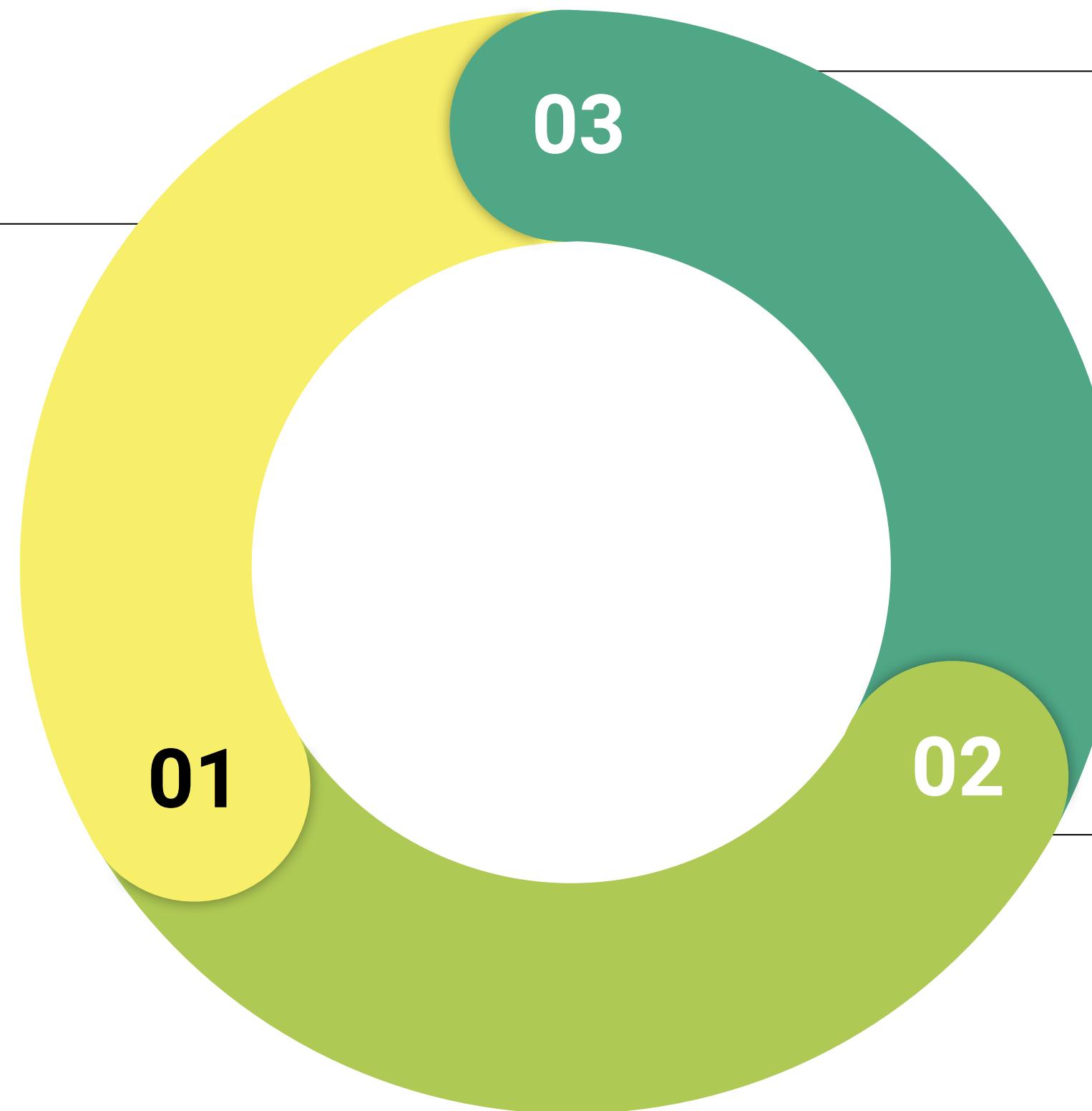
Work hard!

Trust yourself

Celebrate your
successes

Advice for the Journey

Throughout this course, always remember to:



Work hard!

Trust yourself

Celebrate your
successes

And Remember...

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



Google Fu: The Most Important Skill of All

| What Is Google Fu? |



Course Structure

Daily Schedule

In each class, we'll cover the following:

- 01 Set objectives
- 02 Brief background lecture
- 03 Watch me/coding demos
- 04 Code discussions
- 05 In-class exercises
- 06 Project work

Daily Schedule

In each class, we'll cover the following:

- 01 Set objectives
- 02 Brief background lecture
- 03 Watch me/coding demos
- 04 Code discussions
- 05 In-class exercises
- 06 Project work



This is the super important
stuff—ALWAYS BE CODING!

Prework

Software Checklist

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

- Slack
- Visual Studio Code
- Git
- Git Bash (Windows) or Terminal (Mac)
- 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
- Git Check

The Modern Web

What Exactly Is Full-Stack Development?



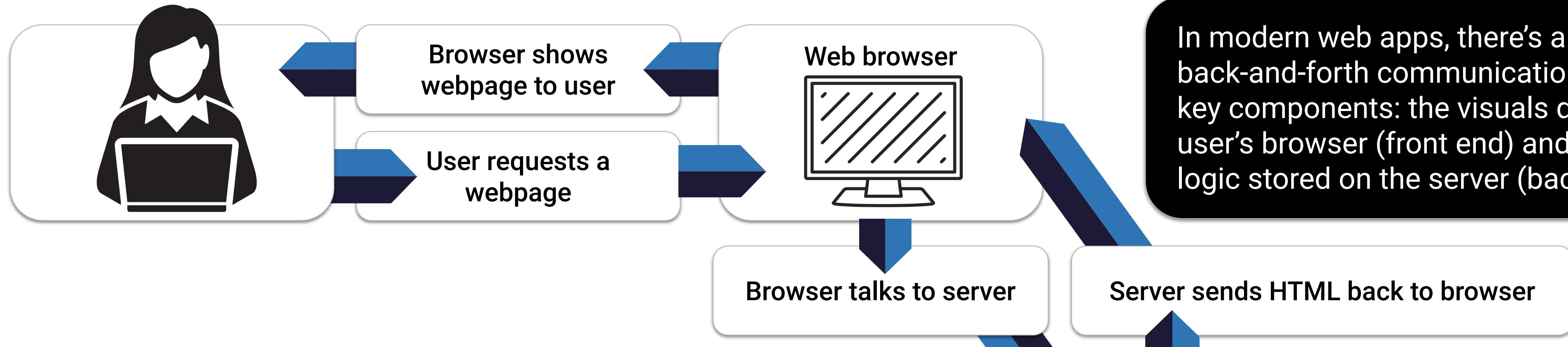
The “Magic” of YouTube



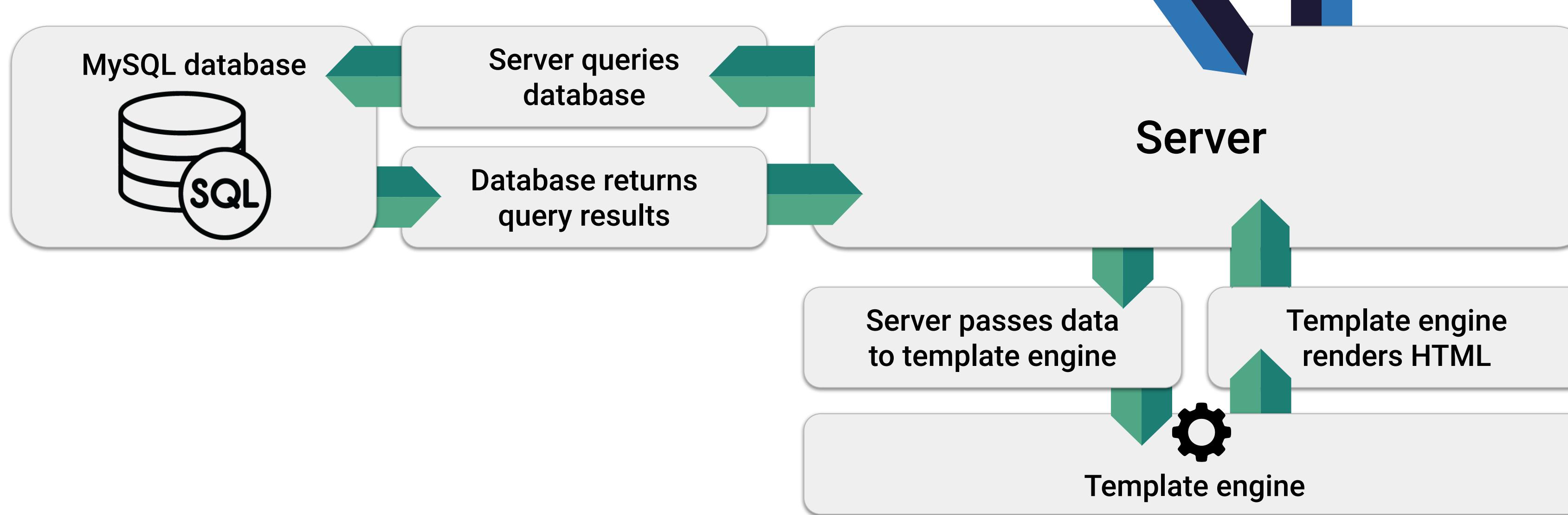
Full-Stack Development

FSF FLOW

Front end



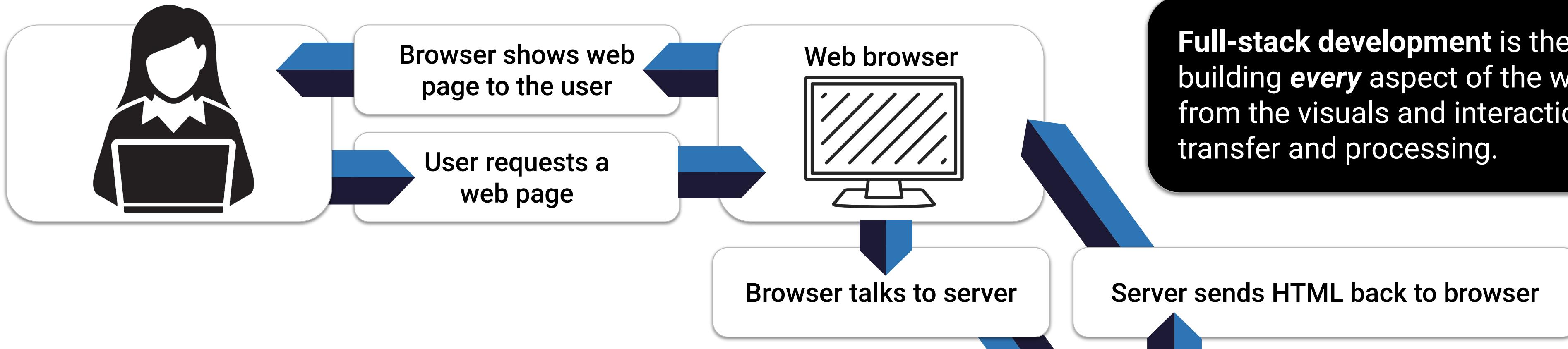
Back end



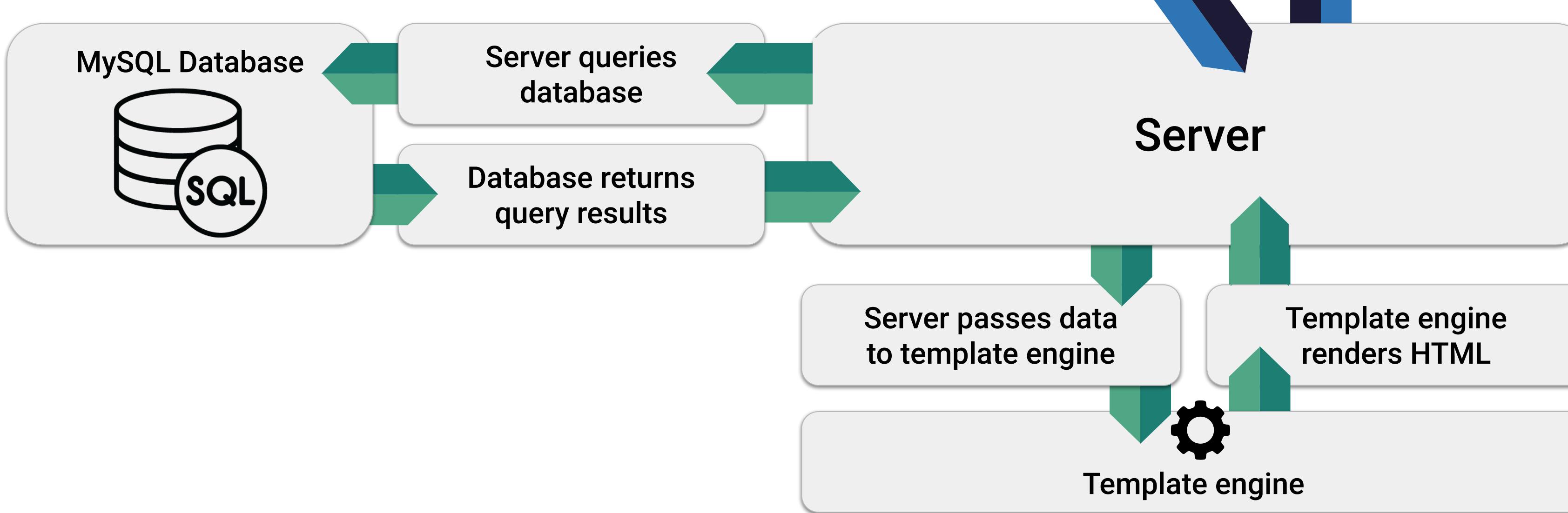
Full-Stack Development

FSF FLOW

Frontend



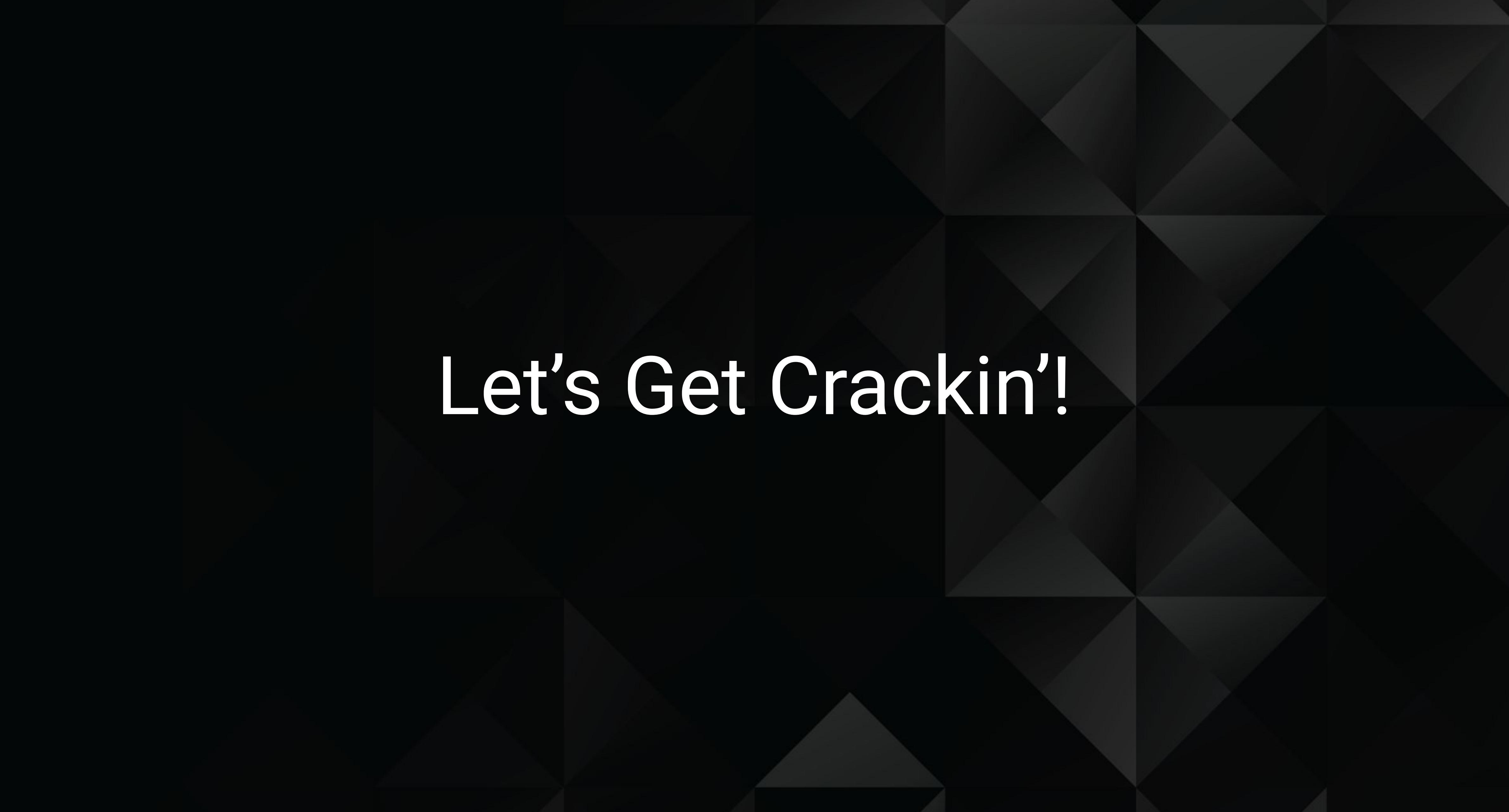
Backend



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.

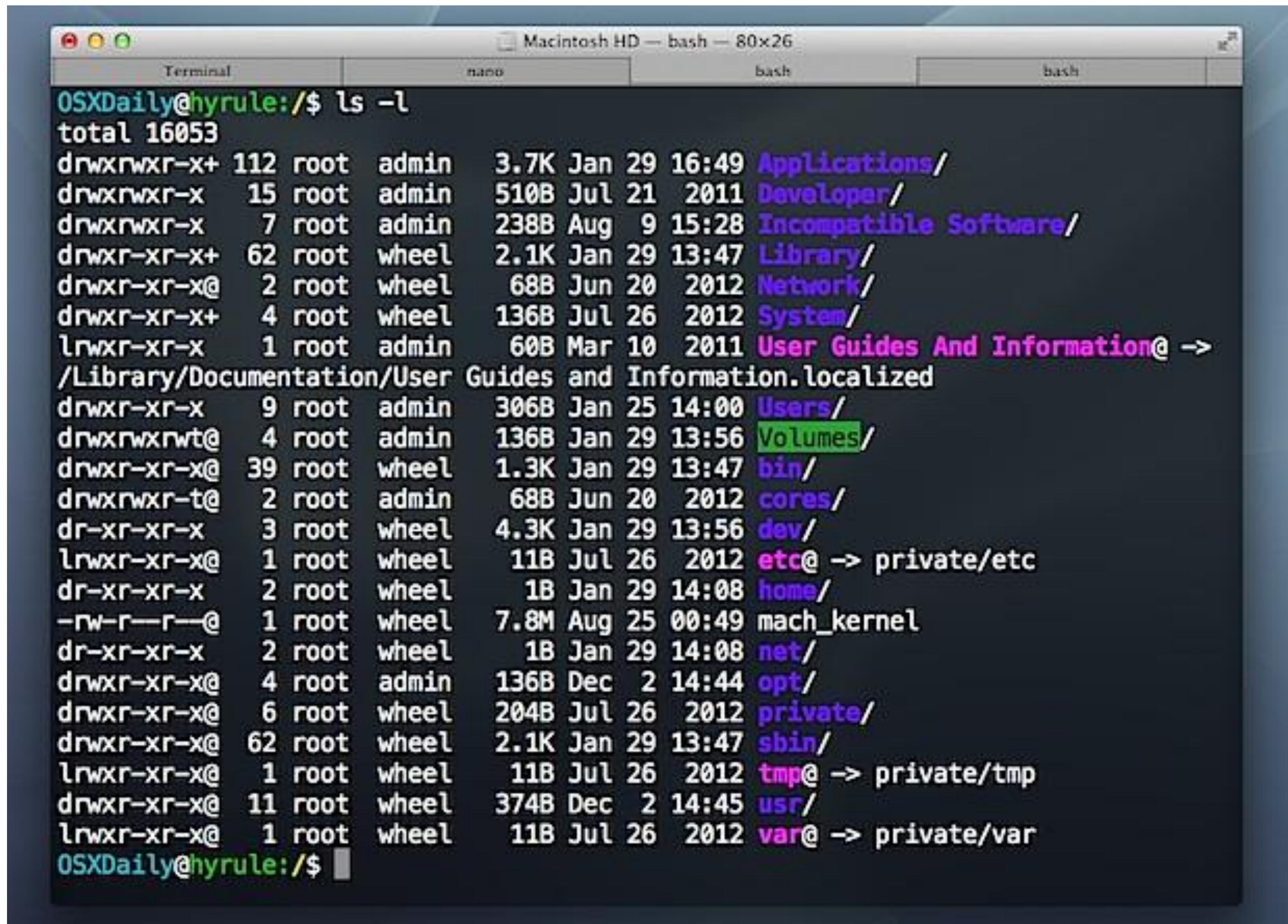
Full-Stack Development

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



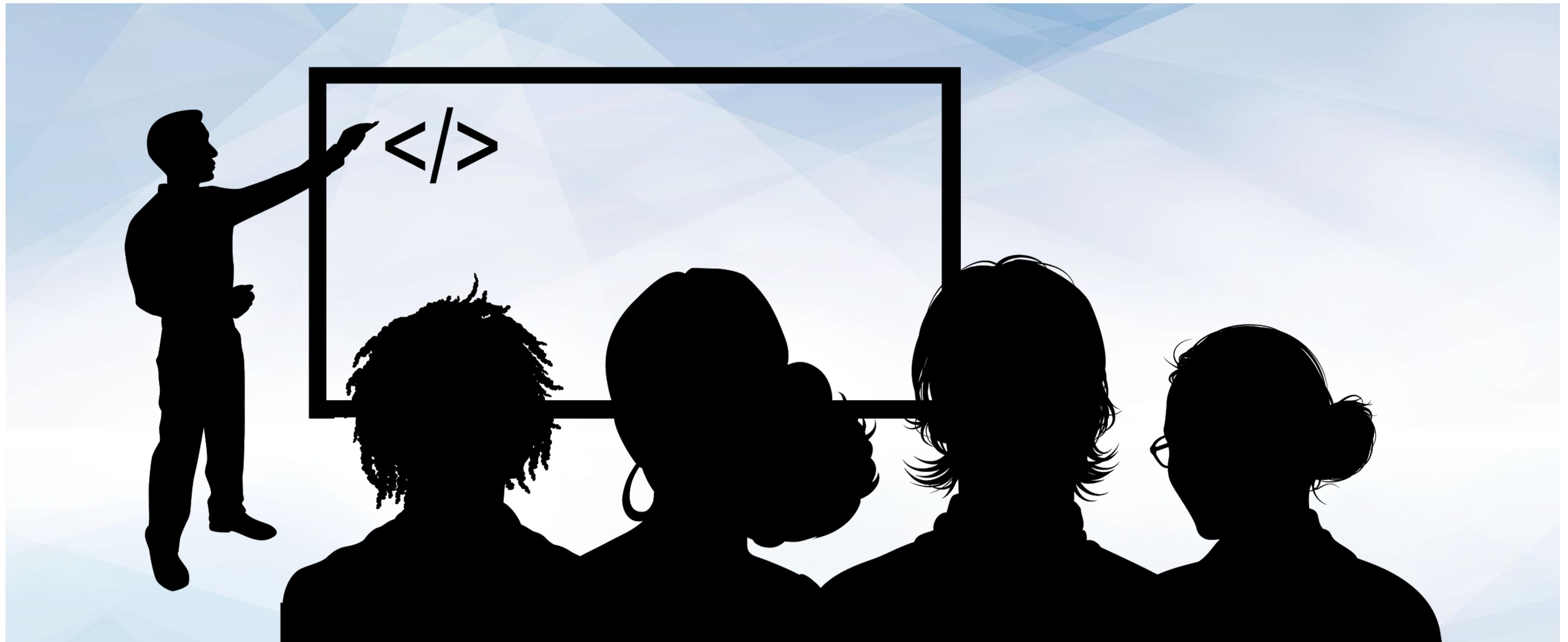
Let's Get Crackin'!

Intro to Console/Terminal



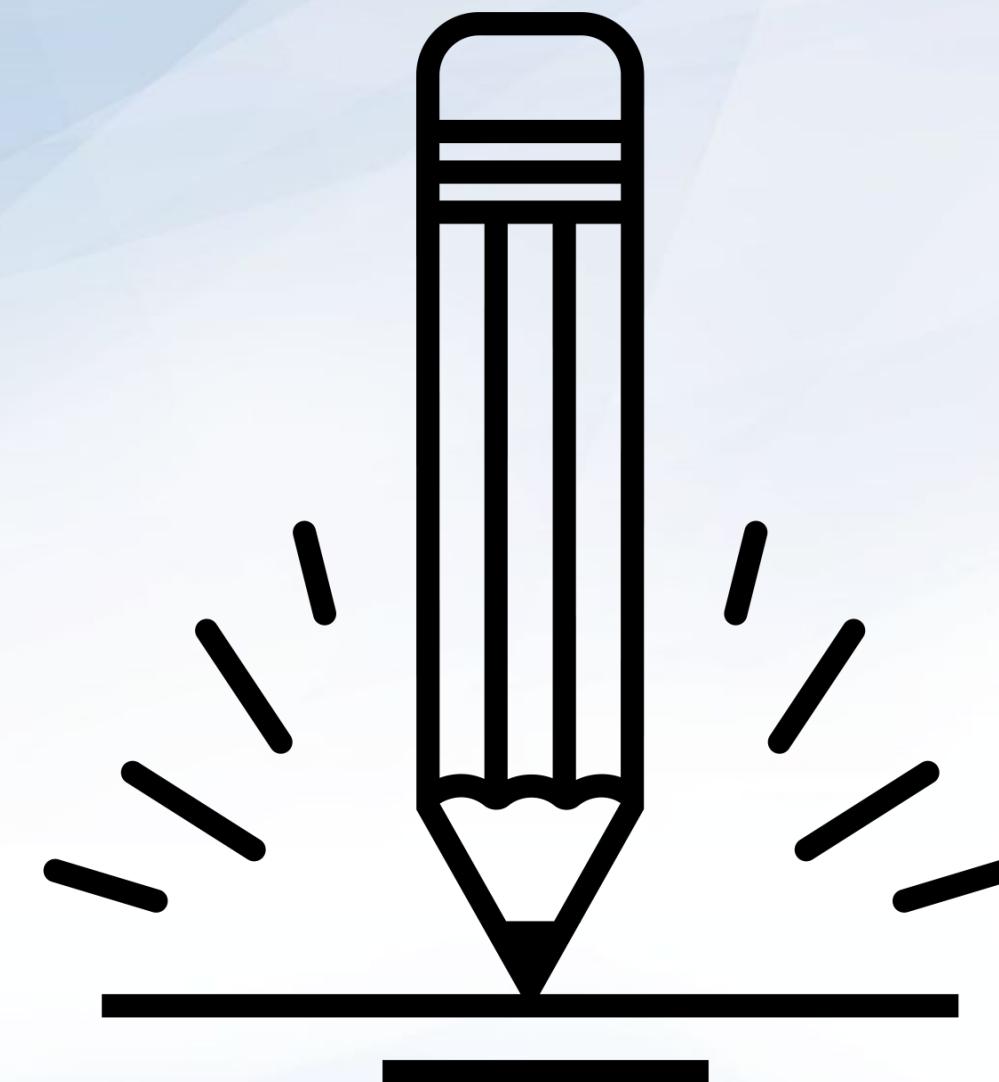
Macintosh HD — bash — 80x26

```
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 Demonstration

Let's Get Crackin'—Intro to Console



Activity:

Console Commands

Suggested Time:
12 minutes



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.

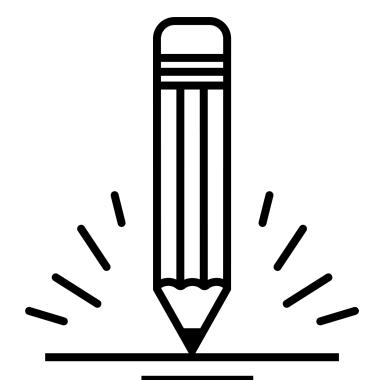


Never put spaces in folder and file names.



Use dashes to separate words in folder and file names.

Suggested Time: 1 min



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!

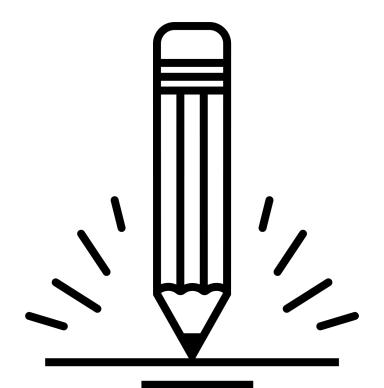


Create multiple directories/folders with the names `one-folder` and `second-folder` with one command.



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

Suggested Time: 12 minutes



Intro to Console: Discuss with Neighbors



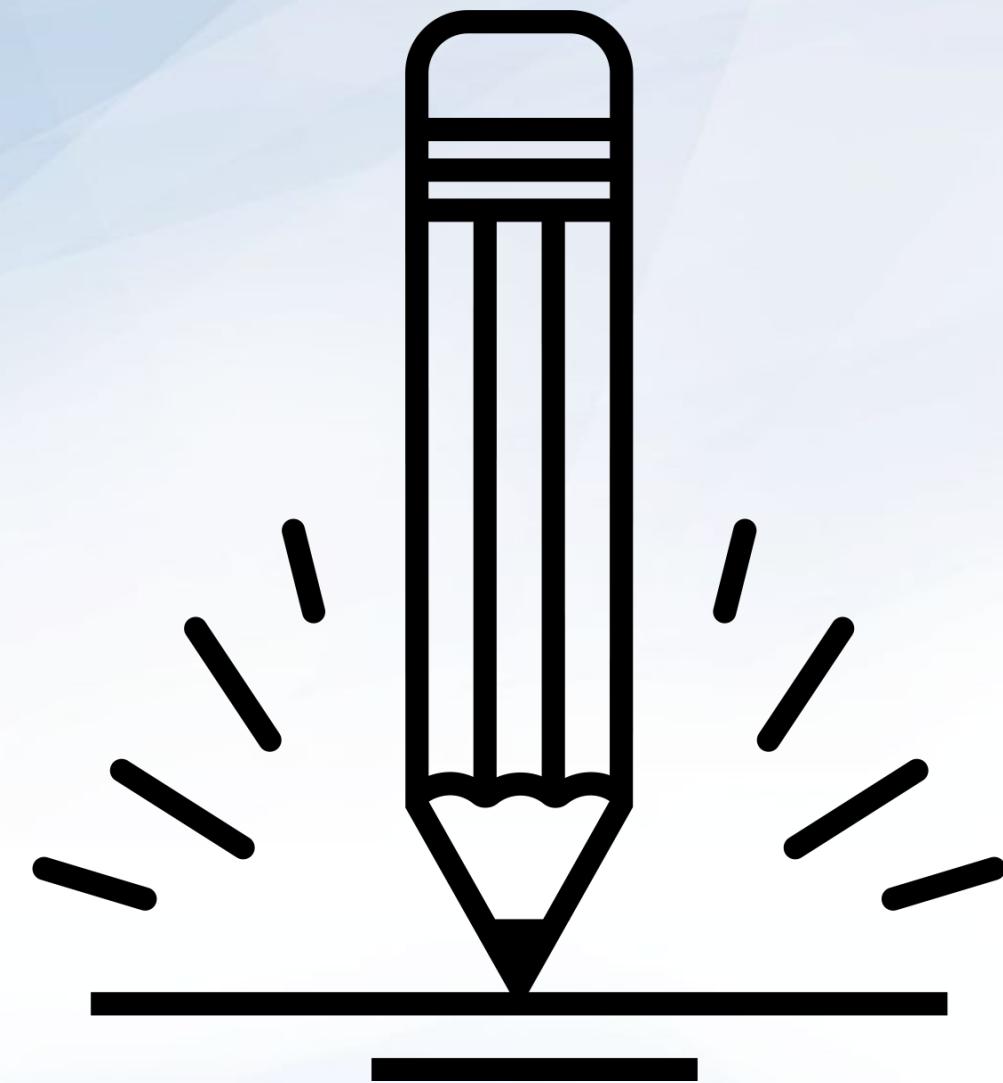
Hello, HTML

<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

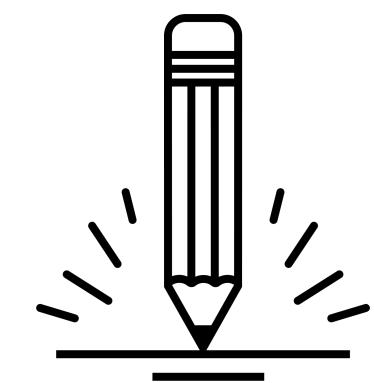
Now add the following three links to your page:

- 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!

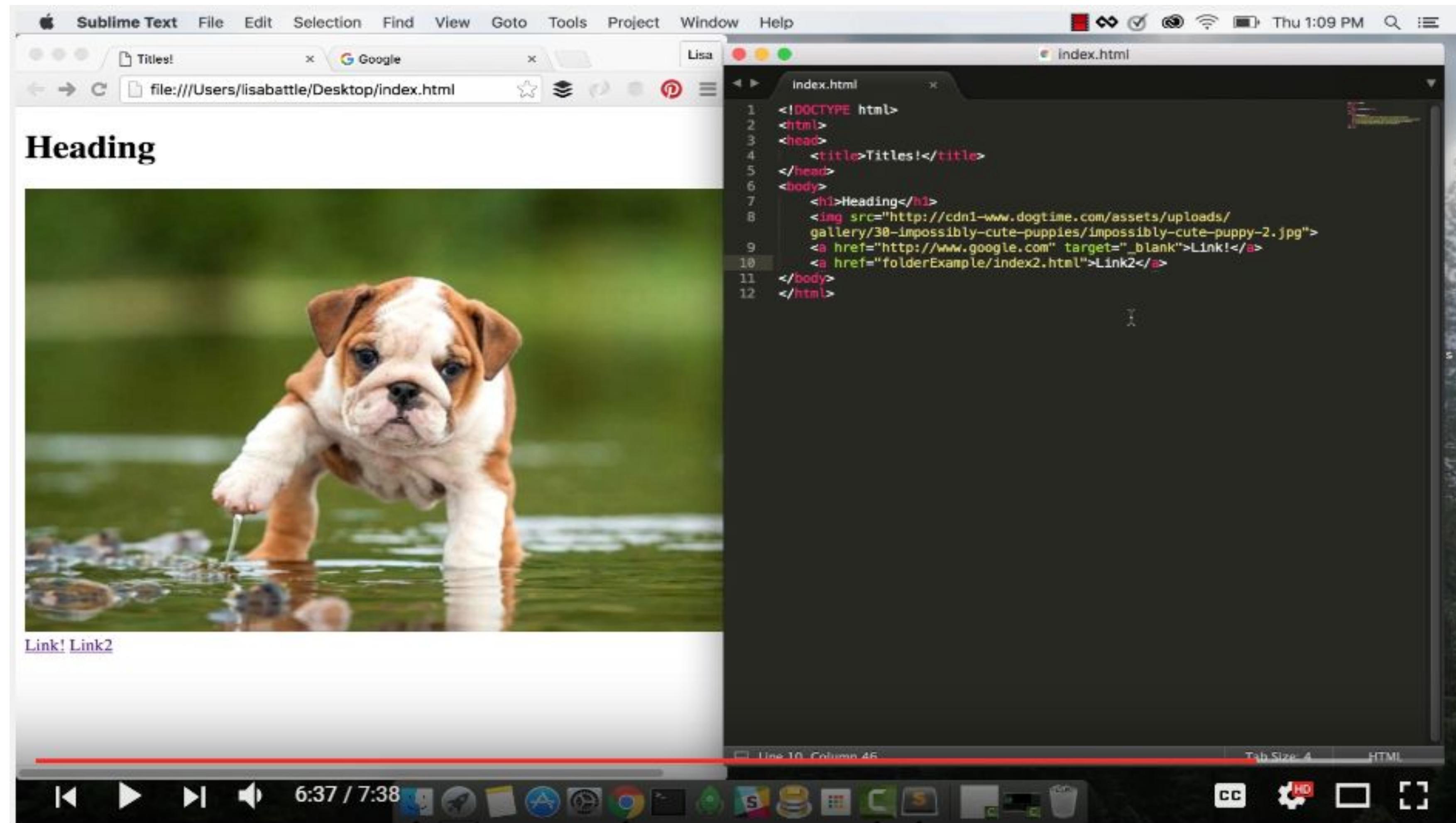
- Create an ordered list of steps to make a sandwich
- Create an unordered list of five bands/musicians you like
- Create a table with two columns (animal class and animal name) and four rows of animals
- Use an alternate way of separating links without line breaks
- Embed a YouTube video of your favorite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

Suggested Time: 5 minutes



YouTube Video Walkthrough

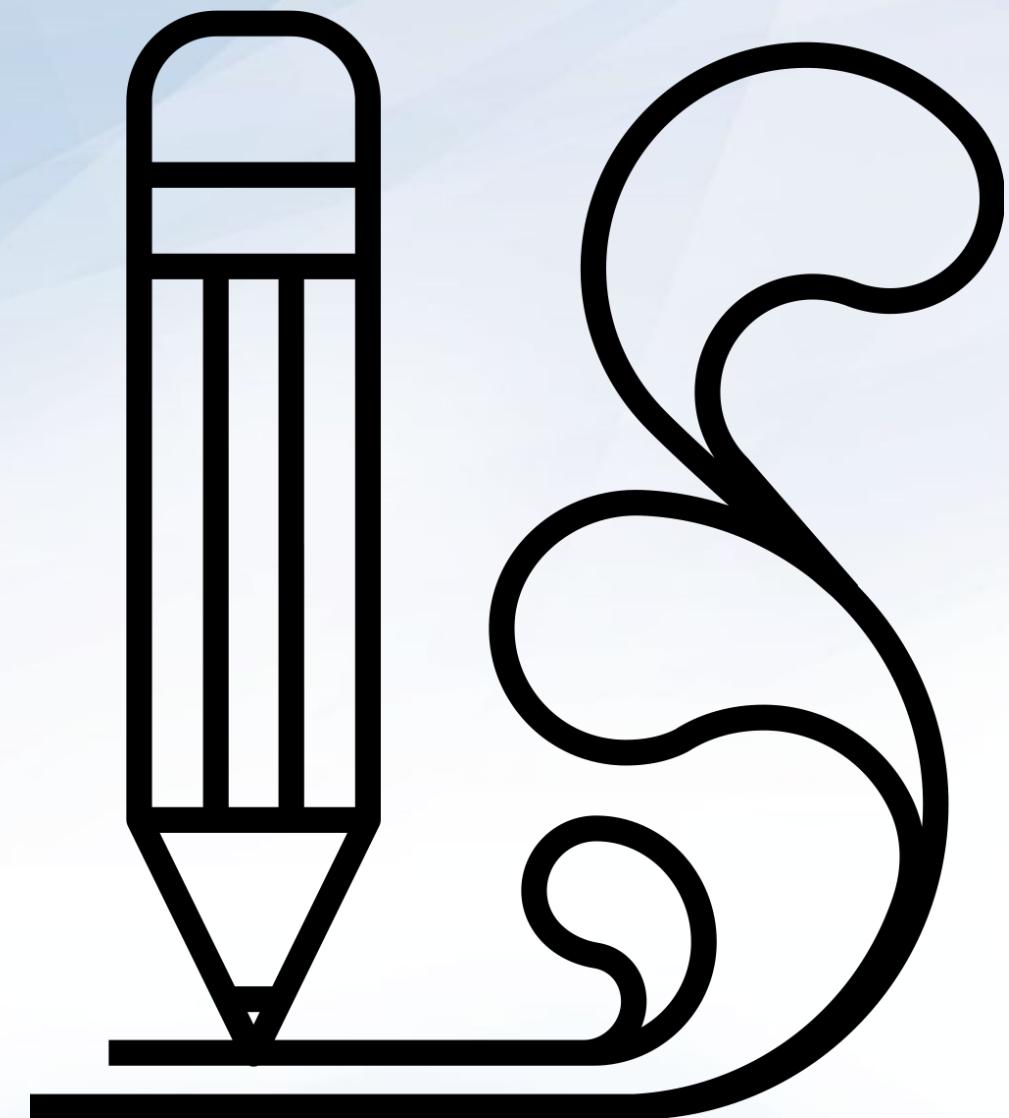
Watch the [walkthrough video](#):



<title>Intro to HTML</title>



How'd it go?



Homework Assignment

Due Date:
Next Class



Homework Assignment

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 [walkthrough video](#) if you feel a bit lost.)

Due Date: Next Class

