

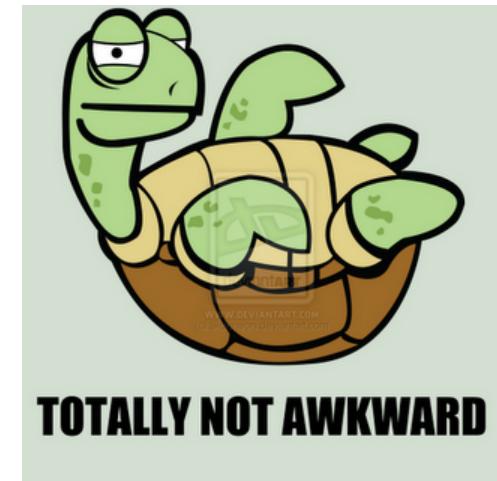
# *The Zen of Coding*

The Coding Bootcamp

# Quick Introductions! (30 seconds)

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- Name
- Location
- Background (Career, Education, Interests)
- Why learn web development?
- Excited about class?



## Your Name Here

- <insert education or experience tidbit>
- <insert education or experience tidbit>
- Over <#> years coding, (with plenty of experience being a n00b at it.)



Insert image  
of you here

- *<personal fact>*
- Secretly, a <funny fact about yourself>

# Some Cool Stuff I Made...

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**SNAPSHOT OF SOMETHING  
YOU MADE GOES HERE!**

# *The Path of Learning*

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Your Goals...

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Basically 1000% of you said...

**New Career**



# Your Goals...

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## And why do you want a new career?

To escape a “dead-end job”

To pursue a “dream”

To be able to “create”

To follow a “fascination”

To attain “financial stability”

To attain “financial freedom”

To “challenge” yourself

To be a “role model” for kids



# Your Goal = Our Goal

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

# Support Team

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## Our Promise:

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

This goes for everyone working behind the program:

- Instructors
- TAs
- Student Success Team
- Career Coaches
- Everyone Else!

**But Remember...**

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**Nothing good comes easy.**

*On Keys To Success...*

**Don't Be This Guy...**



**This Should Be You.**

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# Our Mantra for Today and Beyond...

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*When it comes to web development...*

# Our Mantra for Today and Beyond...

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*I know nothing.*



*You.*

# *The Path of Learning*

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# Nothing Comes Easy...

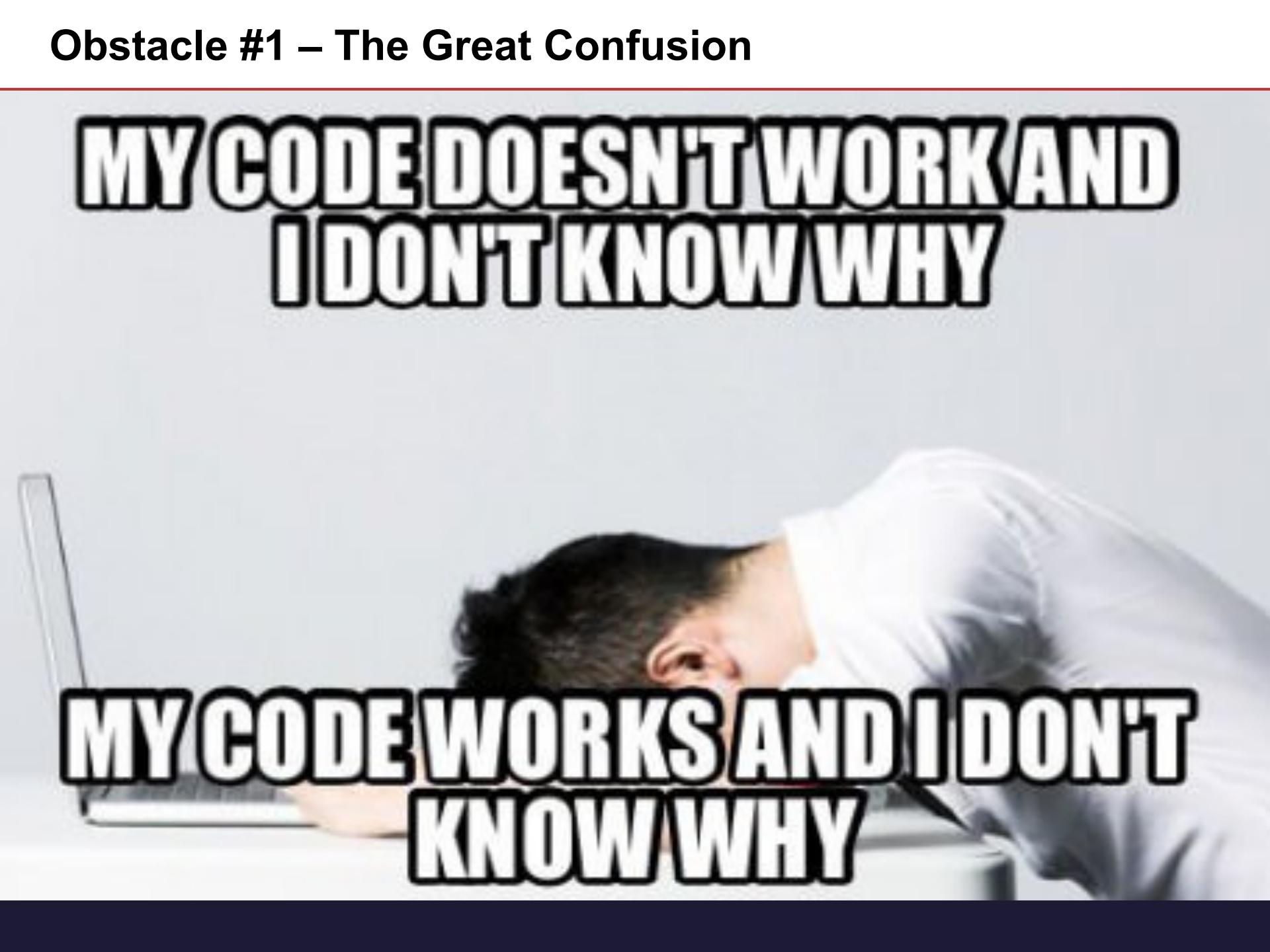
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As students, you face three  
**HUGE obstacles!**

## Obstacle #1 – The Great Confusion

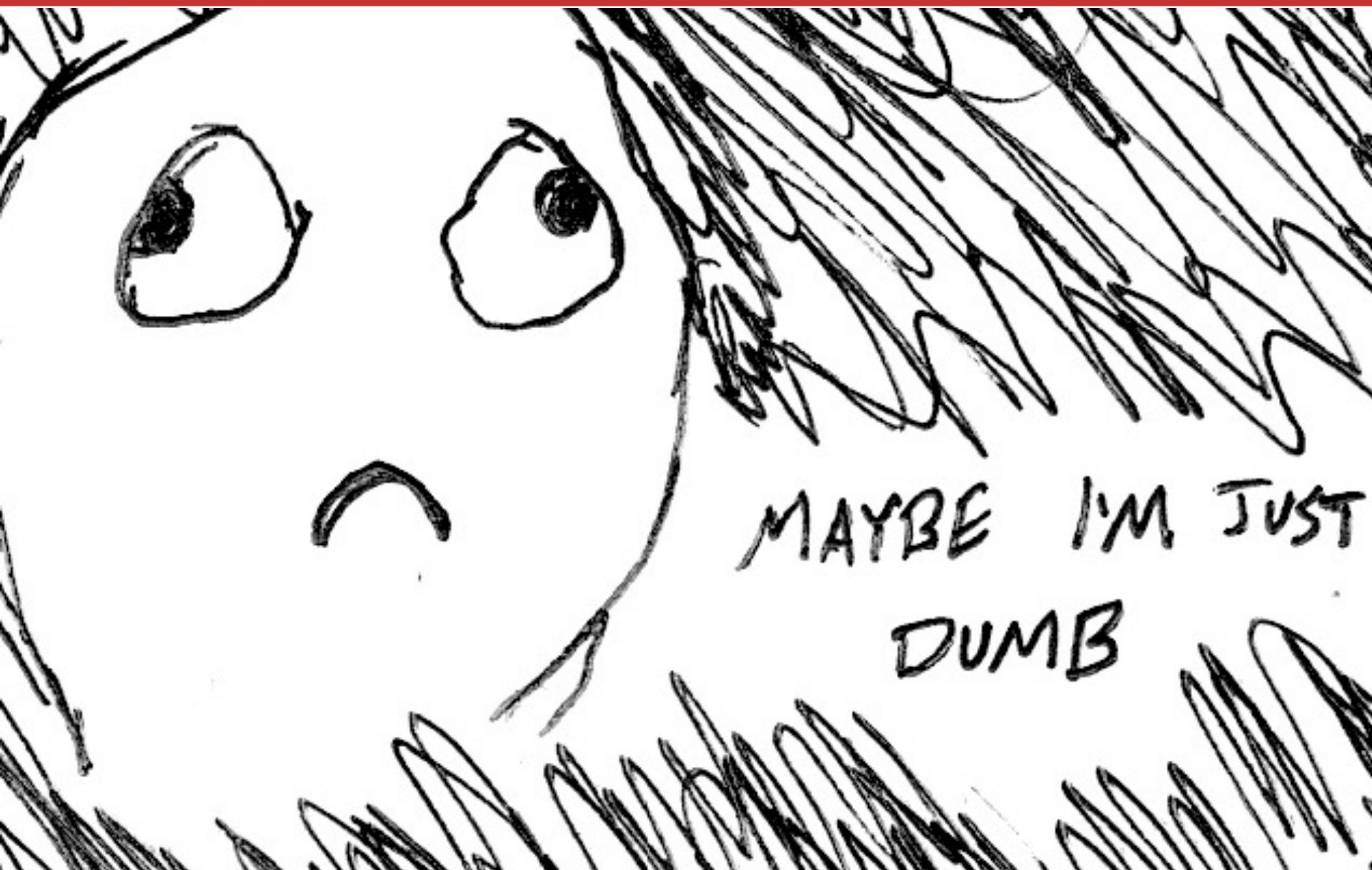
**MY CODE DOESN'T WORK AND  
I DON'T KNOW WHY**

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

A black and white photograph of a man with dark hair, wearing a light-colored shirt. He is sitting at a desk, leaning forward with his head resting on his hand, looking intently at a computer monitor which is partially visible on the left. His expression is one of deep concentration or confusion.

## Obstacle #2 – The Great Doubt

---



## Obstacle #3 – The Great Distance



**Nothing Comes Easy...**

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## **Learning to Code Requires Two Things:**

1. Persisting in the face of something that feels incredibly hard and confusing.
  
2. Maintaining the self-confidence necessary to believe that you CAN DO THIS.

# Learning is “Frustrating”

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“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.”

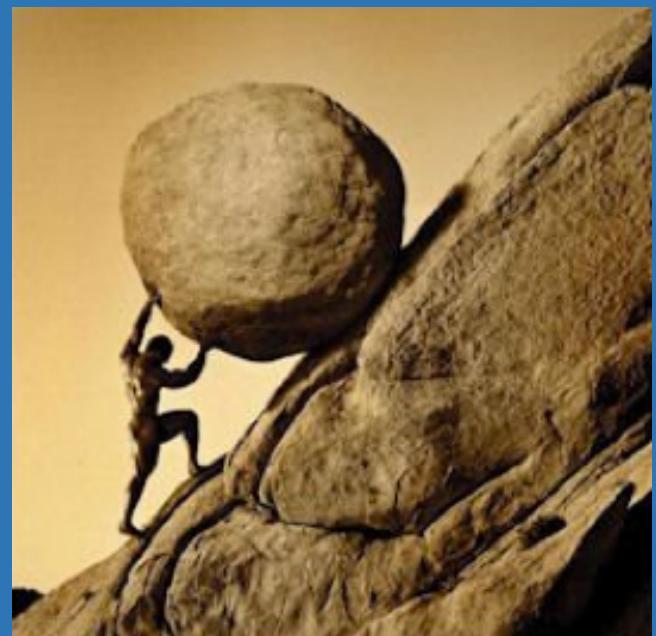
*Jeff Dickey, Author of Write Modern Web Apps with the MEAN Stack:  
Mongo, Express, AngularJS, and Node.JS*

# Advice for the Journey

---

Throughout this course, always remember to:

## 1. *Work Hard!!*



# Advice for the Journey

---

Throughout this course, always remember to:

*1. Work Hard!!*

*2. Appreciate your successes*



# Advice for the Journey

---

Throughout this course, always remember to:

1. *Work Hard!!*
2. *Appreciate your successes*
3. *Trust yourself*



# But remember...

---



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

# Google Fu – The Most Important Skill of All

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**What is Google Fu?**

# Course Structure

# Daily Schedule

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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

# Daily Schedule

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**The Super Important Stuff!!!**

*i.e. Always be coding!*

# *Pre-Work*

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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)
- Node.js
- Heroku-CLI
- Google Chrome

# Accounts Checklist

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You should also now have accounts for:

- GitHub (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

# *On the Modern Web*

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# Full-Stack Development?

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# The “Magic” of YouTube

Screenshot of a YouTube search results page for the query "how to be awesome".

**Search Bar:** how to be awesome

**Search Results:**

- 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:**

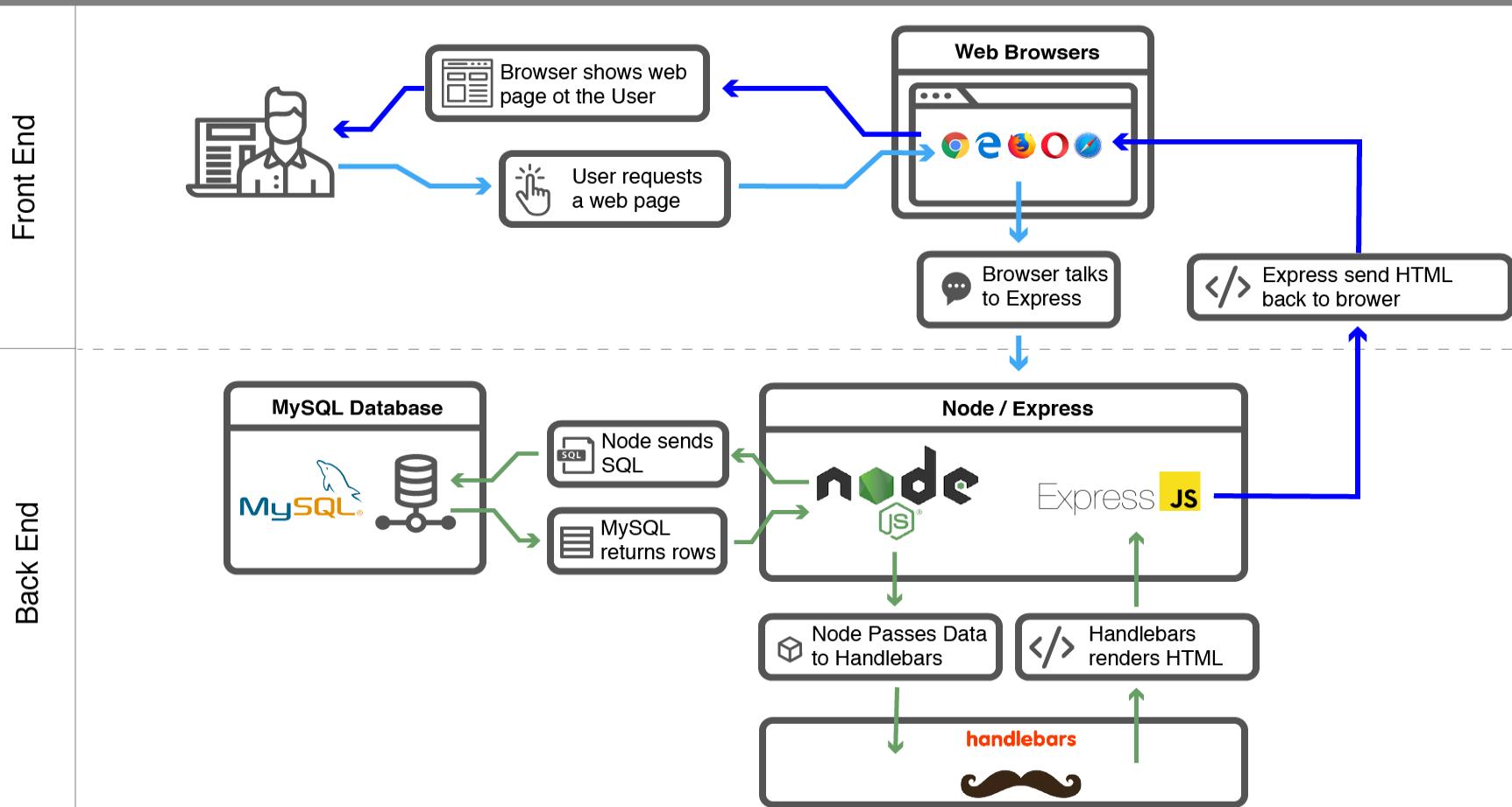
- Angelina Jolie, Brad Pitt Discuss Marriage, New Film, Cancer Fig...** TODAY 8:53
- 'Pretty Woman' Cast Reunites 25 Years Later | TODAY** TODAY 8:10
- Amy Schumer On Body Image, Kardashians, Style (Full...)** TODAY 27:13

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

- 24 Historical Inaccuracies IN DISNEY MOVIES** mental\_floss 7:23
- 10 Hidden Details In Disney Movies** Screen Rant 5:58
- Walt Disney Movies 2015 - Animation Movies 2015 English...** Geroy Donothe 1:15:26

# Full-Stack Development

## FSF Flow

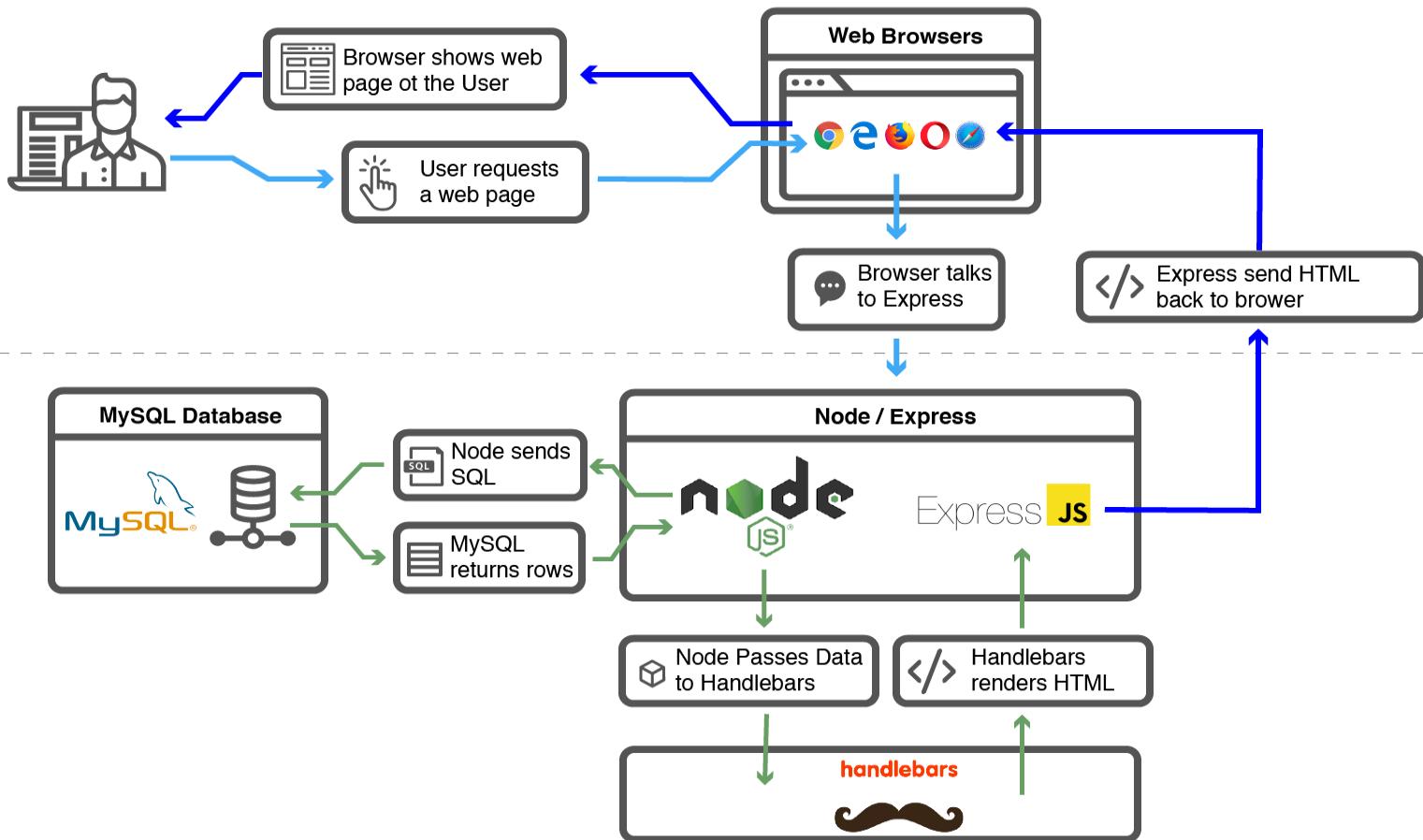


In modern **web apps**, there's a constant back-and-forth communication between two key components: the visuals displayed on the user's browser (**frontend**) and the data and logic stored on the server (**backend**).

# Full-Stack Development

## FSF Flow

Front End



**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

<u>The Browser</u>	<u>Dev Tools</u>	<u>Server Side</u>
• HTML	• Heroku	• Templating Engines
• CSS	• Git	• Sessions
• JavaScript	• GitHub	• Writing tests
• jQuery		• Node.js
• Bootstrap		• Express.js
• SEO		• Creating APIs
	<u>Databases</u>	• MVC
	• MySQL	• User Authentication
	• MongoDB	• ORM (Sequelize)
<u>API Interaction</u>		
• APIs (Consuming)		
• JSON		
• AJAX		
• Real Time Cloud Database via Firebase		
<u>Cutting Edge Development</u>		<u>CS Fundamentals</u>
• React.js		• Algorithms
		• Design Patterns

*Let's Get Crackin!*

# Intro to Console / Terminal

The screenshot shows a Mac OS X terminal window titled "Macintosh HD — bash — 80x26". The window contains the output of the command "ls -l". The output lists numerous system directories and files, many of which are color-coded in purple and green. The color coding is likely due to the "ls" command's "-G" option, which highlights executable files. The terminal window has three tabs at the top: "Terminal", "nano", and two "bash" tabs.

```
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

---

*Instructor: Demo  
(1-ConsoleCommands)*

## 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:**

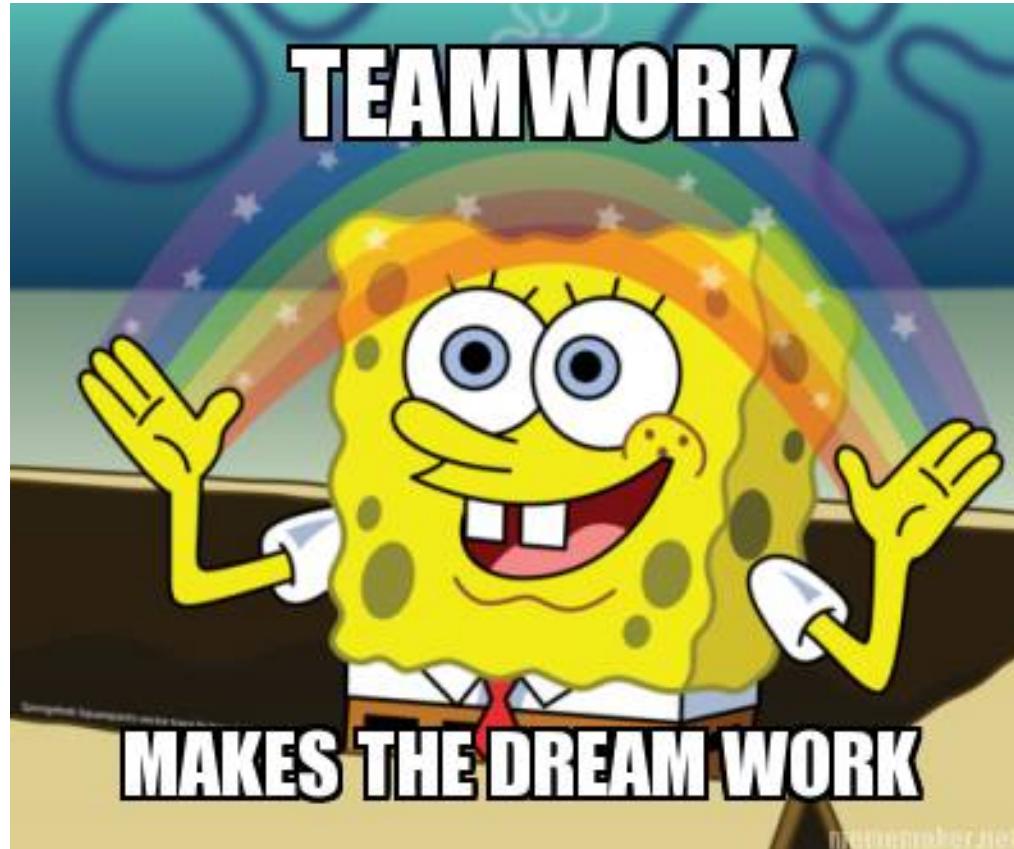
From the Terminal / Console and using only the command line, create:

- 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.

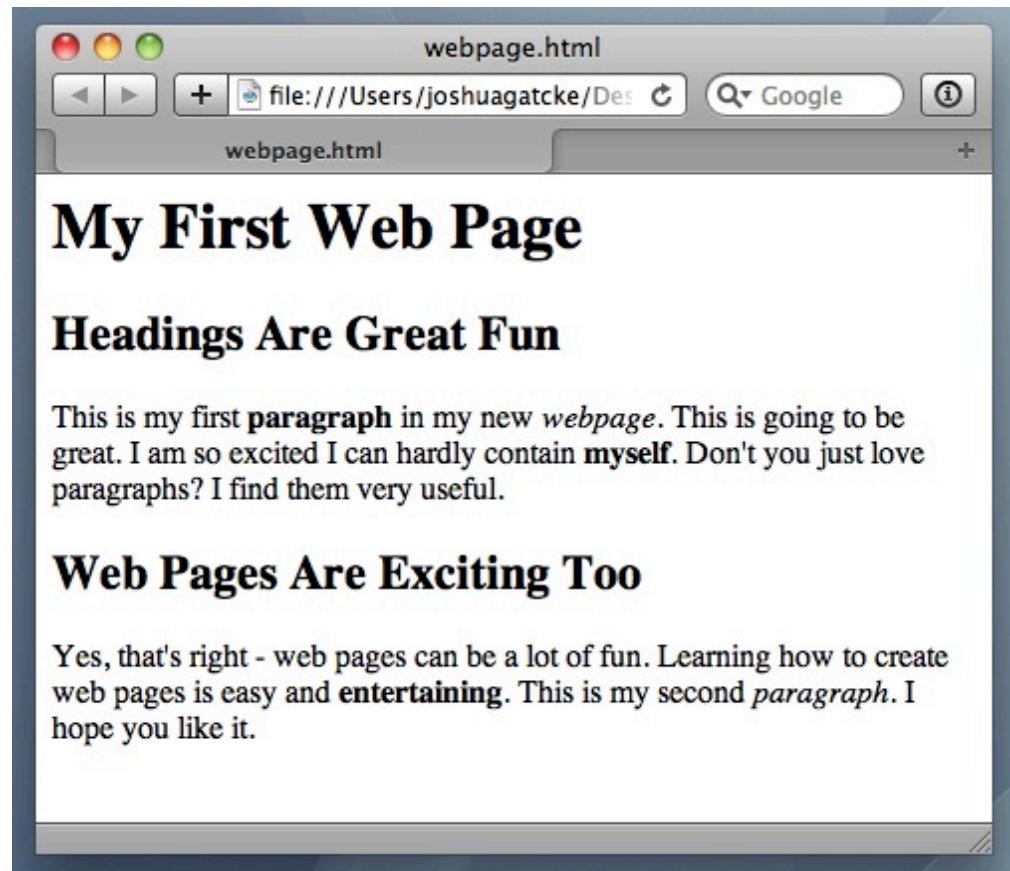
## *Discuss with Neighbors*



*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

---

### Assignment:

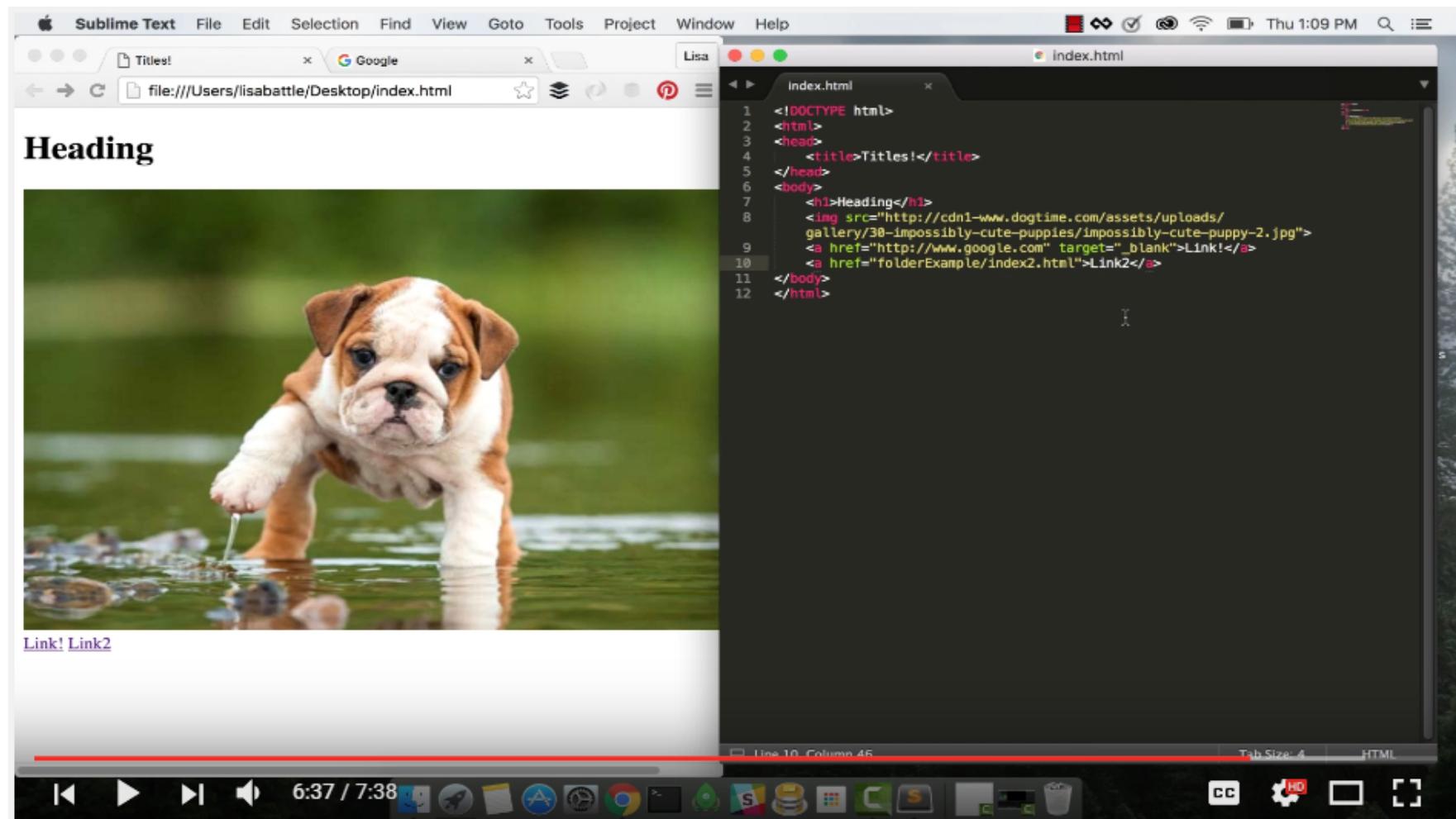
In a new HTML file, create the basic structure of an HTML document and include the following in it:

- 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.

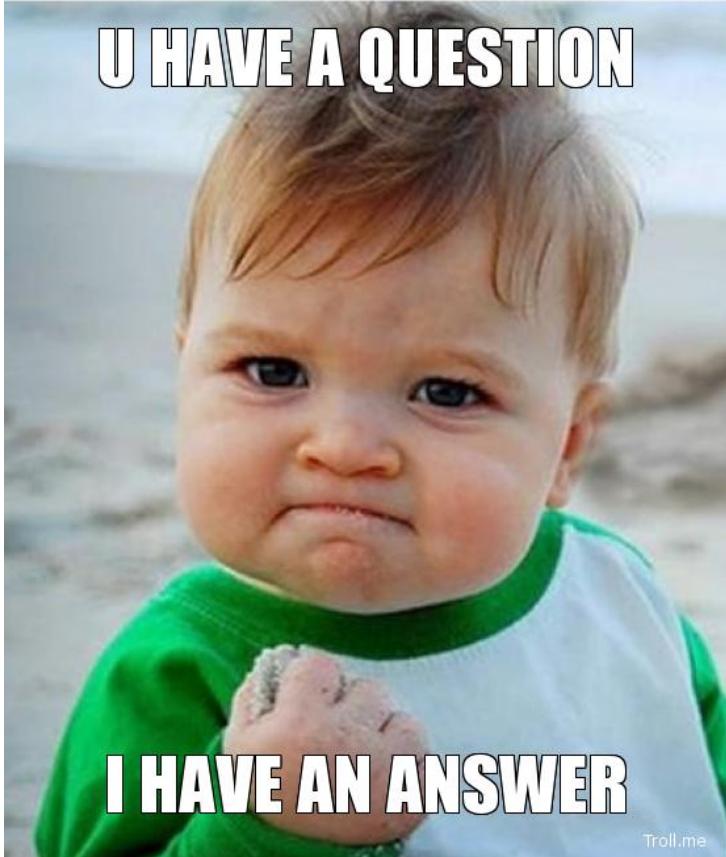
# YouTube Video Walkthrough!



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

<title> Intro to HTML </title>

---



*How'd it go?*

# Homework!

# Homework “Due”: Next Class

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## By Next Class:

- Figure out where the GitHub 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.