

launch _code

Codergirl – WebDev Unit
Class 1
August 17th, 2020

Agenda

- Intros
- Course Overview
- Review
- Livecoding
- Groups
 - Studio
- Studio review



Instructor Intros

Chetna Aggarwal

MS Computer Engineering
Missouri University of S&T - Rolla

Bayer

- Developer
- Technical Lead
- Agile Coach

Fun facts:

- Lives in St. Charles
- Husband's name is Jimmy
- Two children- Arianna and Miraya
- Strengths
 - Developing others
 - Valuing individuals
 - Treating people consistently



Instructor Intros

Mike Tully

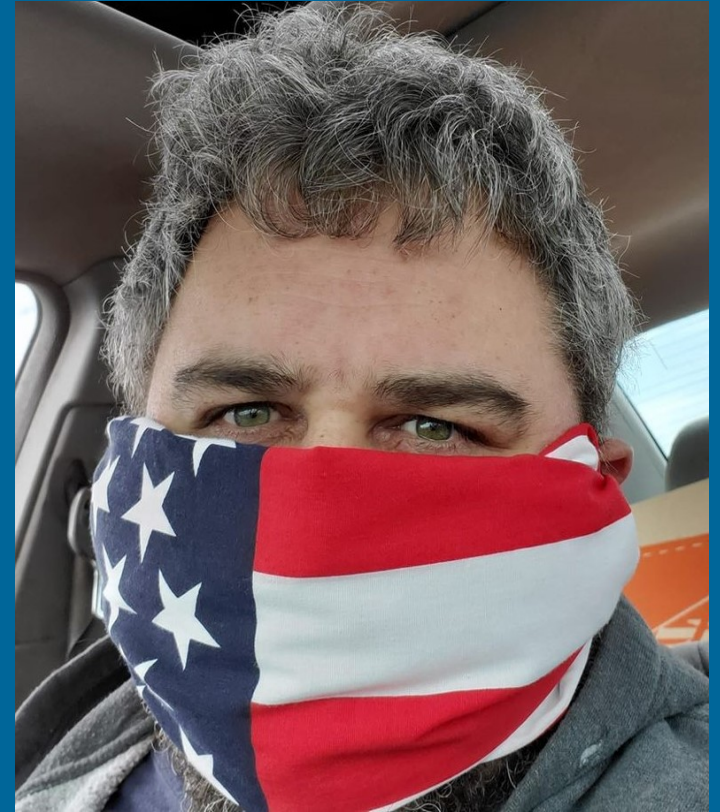
2016 LaunchCode Graduate

National Geospatial-Intelligence Agency

- Team Lead
- Java, Python, React

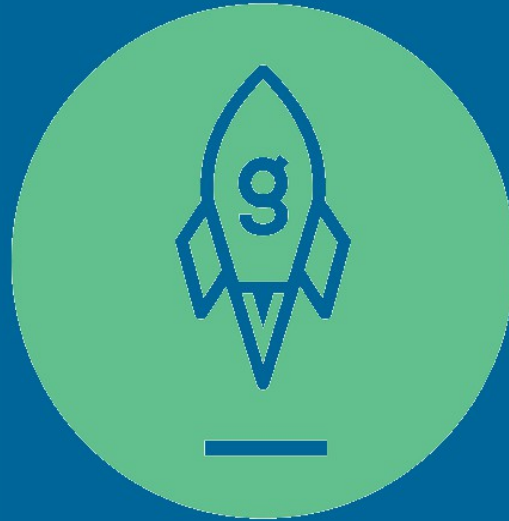
Before LaunchCode:

- Title Insurance Examiner
- Best Buy
- Stagehand
- Youth Worker
- Political Canvasser
- Handicap Accessibility Inspector
- Utility Allowance Specialist
- Line Cook



Mentor Intros

- Austin
- Abbey
- Scott
- Pillai
- Gabriela C.
- Tabitha
- Carrie
- Mariah
- Monica



- Korina
- Warren
- Pallavi
- Veleria
- Clark
- Sunita
- Gab
- Kyle
- Haley



Course Overview

- Every Monday and Wednesday
 - 5:30-8:30pm
 - Last class day: November 9th
 - 1 holiday, 4 catch up days
 - Virtual until further notice
- Pass/Don't pass
 - Must complete all graded assignments
 - Passing allows moving to Unit 2



Course Objectives

- Learn how to create basic Javascript applications
- Build the skills to independently learn future technologies
- Develop a positive, encouraging environment to learn new skills
- Begin building a network of talented and driven people in technology



Course Tools

- Canvas
 - Prep work, Assignments and grades
 - Prep work posted roughly 2 weeks out
- Slack
 - Best communication method
 - Announcements
 - Don't be fooled by a green dot
- repl.it
 - Online Integrated Development Environment (IDE)
 - Write your code here!



Course Expectations

- You
 - Do the prep work *before* class
 - Come to class (virtually)
 - Ask questions and participate
 - Do the studios and assignments
 - Don't cheat
- Mentor Team
 - Be available (within reason)
 - Be patient and understanding
 - Be prepared



Survival Tips

- Find or form a study group
 - #webdev_studygroups
- Create a study schedule and stick to it
 - Plan on 15-20 hours per week
- Reach out when you're struggling
 - Classmates, mentors, LC staff
 - If something is unclear, ask
- Stay focused on your goals
 - Why are you here? Let that fuel you



Academic Honesty



Sources for Help

- Classmates
 - If you can help, don't be afraid to answer
- Group Mentor
 - They exist here to help YOU
 - Be mindful of their schedules
- Instructors
 - More “I don't understand this”
 - Less “my code doesn't work”
- Google!



Class Overview

Questions?



Review – Values and Data Types

- Programs are made of two things:
 - 1) Data
 - 2) Operations that manipulate data



Review – Values and Data Types

- **Value:** Specific piece of data
 - “Hello world” **String**
 - 23 **Number**
 - animal_cross.jpeg **Object**
 - true **Boolean**
- **Data Type:** Category of data



Review – Values and Data Types

- **Variable:** Way to store values for use in a program.

- **Declaration:** Creating a new variable

```
let programmingLanguage;
```

- **Initialization:** Giving the variable a value to store

```
let programmingLanguage;  
programmingLanguage = "JavaScript";
```

```
let programmingLanguage = "JavaScript";
```



Review – Values and Data Types

- Variable keywords
 - **let** – used if the value will change
 - **const** – used if the value is constant
 - Trying to change a **const** variable will lead to errors
 - Only use keywords when **declaring** a variable, never for reassignment
 - Do not use **var**



Review – Values and Data Types

```
let day = "Thursday";  
console.log(day);
```

Declaration and Initialization

```
day = "Friday";  
console.log(day);
```

Reassignment

```
day = 21;  
console.log(day);
```

Reassignment



Review – Values and Data Types

- Variable Naming
 - Use camelCase
 - `thisIsVeryCoolCamelCase`
 - `this_is_not_camel_case`
- No special characters or whitespace
- Cannot start with a number
- Use meaningful names
 - `x = "Hello, World!"` (BAD)
 - `greeting = "Hello, World!"` (GOOD!)

Review – Values and Data Types

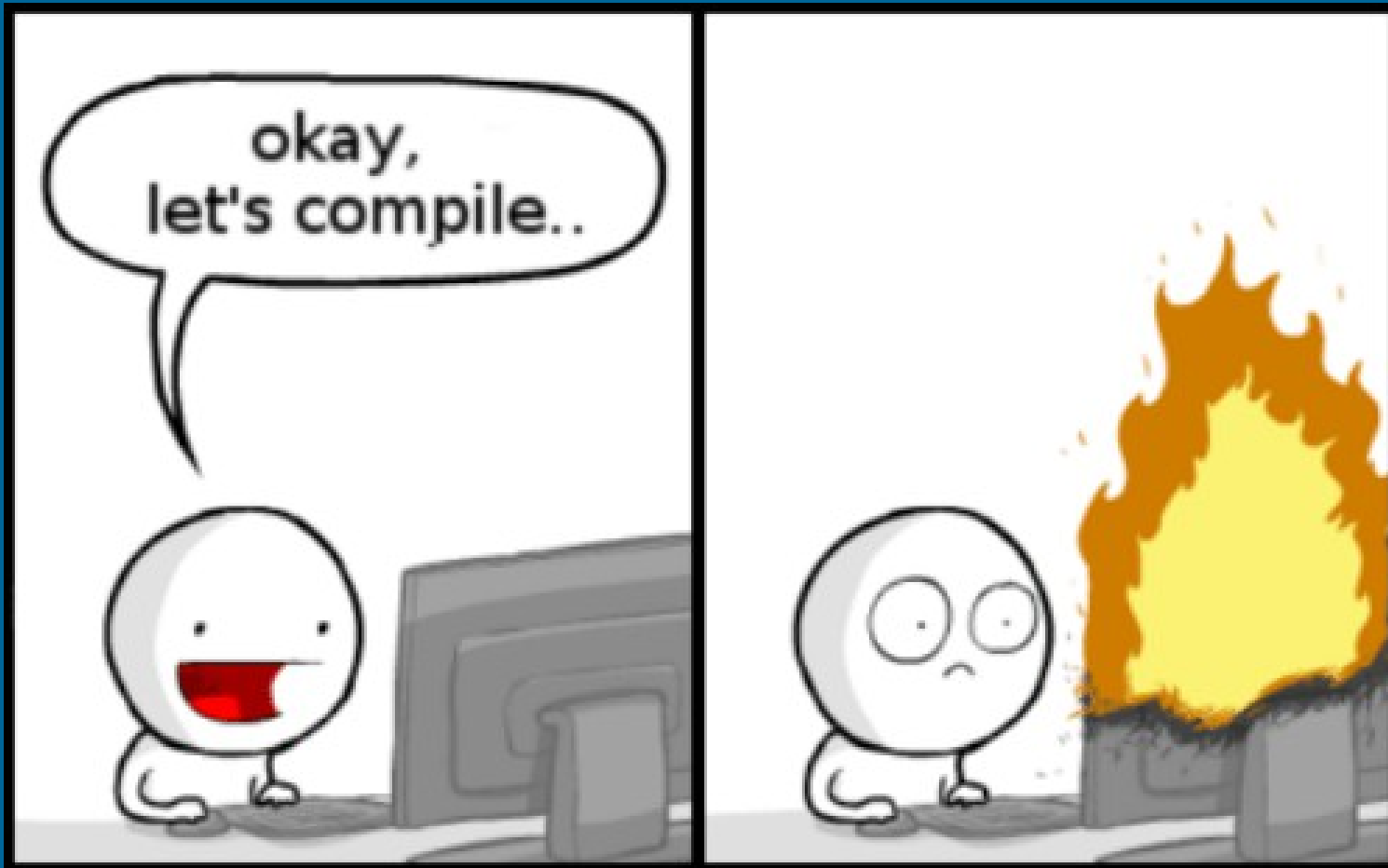
- **Operator:** Character that represents a computation to be made
 - You likely know: +, -, *, /
 - ** is exponent ($5 ** 2 = 25$)
 - ++ is increment (if $x = 2$, $x++ = 3$)
 - % is modulus
 - Divide two numbers, return the remainder
 - $7 \% 2 = 1$

Review – Values and Data Types

Questions?



Live Coding



learning a new programming language..



Studio – Data and Variables

- Store data in variables
- Print data back to the user
- Format the output to look like the LC04 Form

```
-----  
> LC04 – LAUNCH CHECKLIST  
-----
```

```
Date: Monday 2019-03-18
```

```
Time: 10:05:34 AM  
  
-----
```

```
> ASTRONAUT INFO  
-----
```

```
* count: 7
```

```
* status: ready  
  
-----
```

```
> FUEL DATA  
-----
```

```
* Fuel temp celsius: -225 C
```

```
* Fuel level: 100%  
  
-----
```

```
> MASS DATA  
-----
```

```
* Crew mass: 564.9 kg
```

```
* Fuel mass: 760000 kg
```

```
* Shuttle mass: 74842.31 kg
```

```
* Total mass: 835407.21 kg
```

Now

- Find your group Zoom
 - Intros
 - Studio
 - Prep for next week
- Studio Review
 - This Zoom
 - 8:00pm

