JAVASCRIPT INTRO

A relaxed programming language…

“Relax,
you fellas have nothing to worry about, I’m a professional.”
“Relax, don’t do it. when you want to go to it.”

RELAX?

- Compared to Java, C/C++ or even Python, JavaScript is a relaxed programming language
- JavaScript is *weakly and dynamically typed*
  - This means variable declarations don’t require a type, and you can change the type of object that a variable points to

```java
// Java code
String class = "CS 4460";
// Throws a ClassCastException
class = 4460;
```

```javascript
// JavaScript code
var class = "CS 4460";
// No exception thrown
class = 4460;
```

- JavaScript relies heavily on *functional programming* and has non-classic ways for defining Classes
- JavaScript can throw Exceptions, however those Exceptions don’t typically crash or stall the UI of your app like in Java or C
BEFORE D3

- HTML
- CSS
- DOM
- Javascript
- SVG

LAB 1

- HTML
- CSS
- DOM
- Javascript
- SVG
LAB PROCEDURE

Before Class
- Read second half of Chapter 3 - Interactive Data Visualization for the Web by Scott Murray
- Git pull or download example code
  - (https://github.gatech.edu/CS-4460/Labs.git)

In-Class
- Open Lab 1 instruction page (https://github.gatech.edu/CS-4460/Labs/wiki)
- Work through activities

After Class
- If you run out of time, finish all lab activities
- Disclaimer: You probably will run out of time.

Options to Git Pull

https://github.gatech.edu/CS-4460/Labs.git

Mac
Select the “Sync” button on Mac.

Windows
Select the “Pull origin” button on Windows.

Open a new Terminal (Mac) or Command Prompt (Windows)
Navigate to directory you want to clone to, for example:
cd ~\Documents\CS-4460\
git pull