JAVASCRIPT INTRO

A relaxed programming language…

Georgia Tech Visualization Lab

“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 code
String class = “CS 4460”;
// Throws a ClassCastException
class = 4460;
```

```
// 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

I feel like I'm taking crazy pills!

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

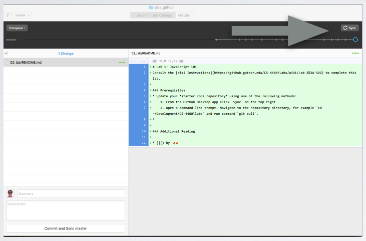
- If you run out of time, finish all lab activities
- *Disclaimer: You probably will run out of time.*

Options to Git Pull

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

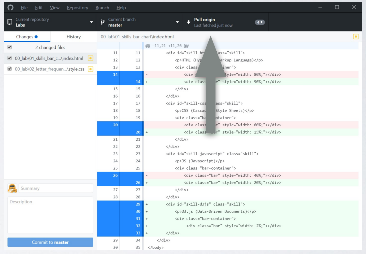
Mac

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
```