

INFO 253A

Lab 1

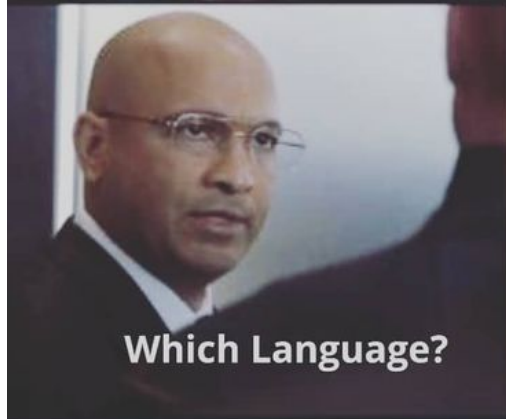
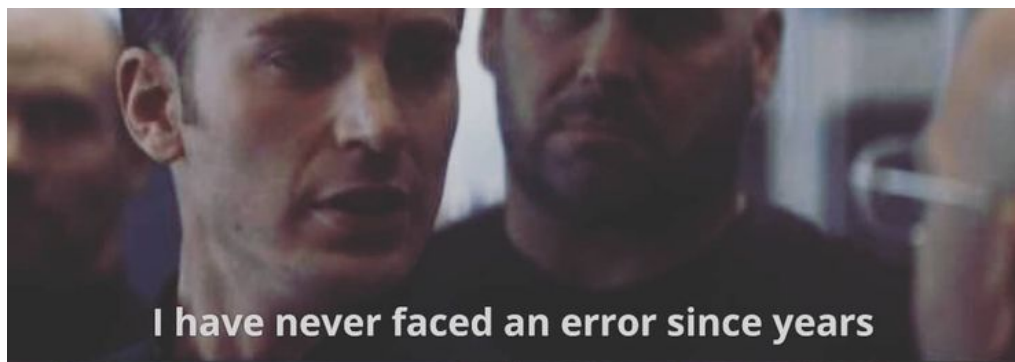
Suk Min Hwang

UC Berkeley



Today's Agenda

1. HTML
2. Lab 1 Instruction
3. Set Up



**I'M AN HTML
PROGRAMMER**

**REPEAT IT
IF YOU'RE BRAVE**



imgflip.com

PYTHON

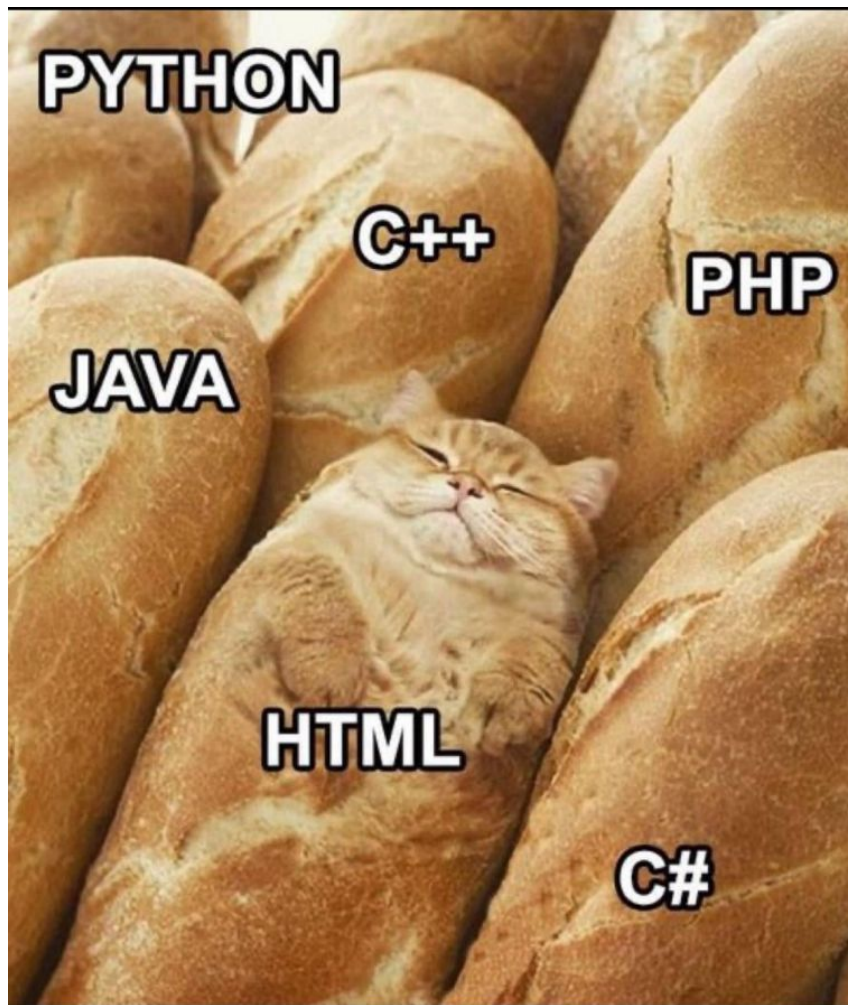
C++

PHP

JAVA

HTML

C#



Developers: HTML is not a programming language, never never.

HTML:

The web cannot survive without me, but you guys keep hating me. Thanks.



Semantic HTML

- **Semantic elements = elements with a meaning.**

Examples of non-semantic elements: `<div>` and ``

Examples of semantic elements: ``, `<table>`, and `<article>`

- Learn more from here:

https://www.w3schools.com/html/html5_semantic_elements.asp

Why Is It Important?

1. Search Engine Optimization

Example:

```
<h1>Best Pasta Recipes</h1>  
<p>First of all, order pasta</p>
```

- Because of <h1>, Google (Search Engine) understands the main topic
- If you only used <div class="title">, Google doesn't know this is the primary heading
- Page shows up higher when people search "pasta recipes"

Why Is It Important?

2. Accessibility

Example:

```
<nav>
  <a href="#about">About</a>
  <a href="#projects">Projects</a>
  <a href="#contact">Contact</a>
</nav>
```

- Screen readers can announce: "Navigation: list of 3 links."
- If it was just `<div><a>...</div>`, users with visual impairments wouldn't get that context
- People with disabilities can navigate your site effectively

Why Is It Important?

3. Maintainability

Easier to read, understand, and update your code over time



Ready to eat

everyone! I am a graduate student at UC Berkeley. I
playing tennis and cooking.

Subjects

Project 1: Group Talk Helper

l that analyzes classroom discussions and provides
ers with quick insights about group emotions and
S.

ect 2: Third Hand

community-based secondhand marketplace concept
 ing on trust and safe interactions within local
 unities.

Project 3: Smart Lamp

gible interface that changes its light color and intensity based on user emotions, promoting warmth and connection.

Contact

l: sukmin@berkeley.edu

Put Me



to eat

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ects

et 1: Group Talk Helper

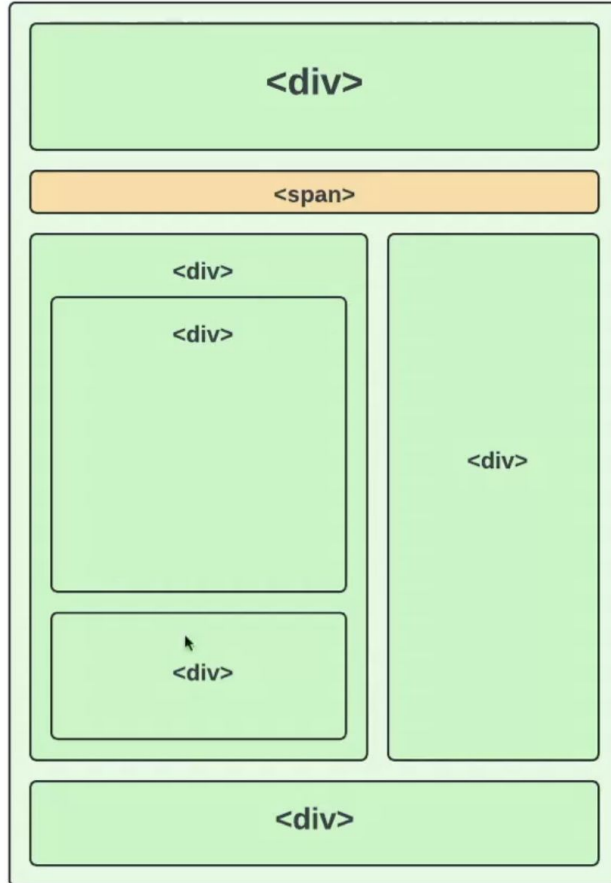
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Set 2: Third Hand

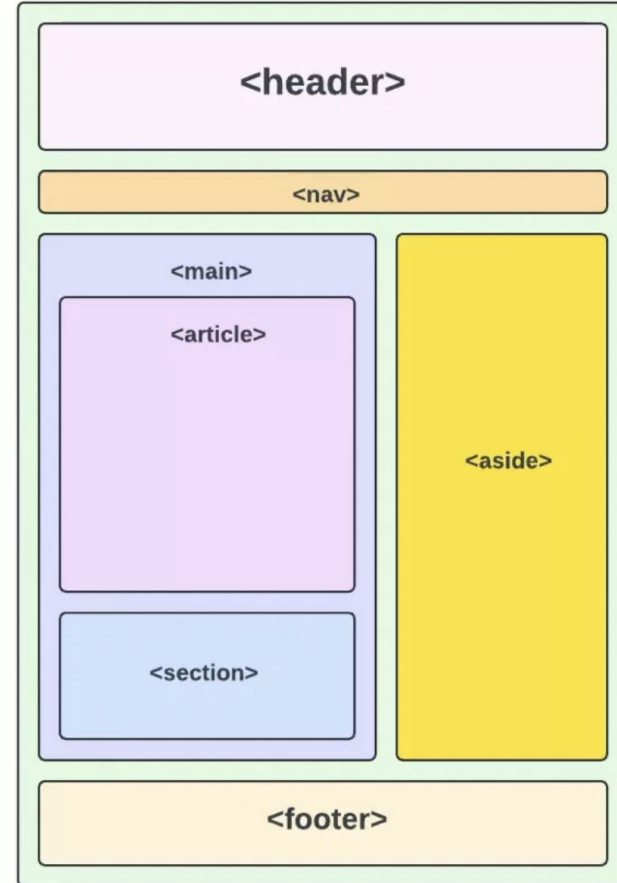
community based secondhand marketplace concept
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nities.

et 3: Smart Lamp

Non-Semantic



Semantic



Lab1 Instruction

bCourse -> Assignments -> Lab1

<https://bcourses.berkeley.edu/courses/1548135/assignments/8971964>

Set Up

1. VS Code: <https://code.visualstudio.com/download>
 - a. “Live Server” extension for VS Code
2. Git: <https://git-scm.com/downloads>
3. Github Desktop (for beginners): <https://desktop.github.com/download/>
 - a. Tips: <https://docs.github.com/en/desktop>

Steps

Step 1: Click on the provided GitHub classroom link

For this week's lab: https://classroom.github.com/a/c_JusaOW

Step 2: Click on the link to your automatically created repository

Step 4: Click on “Code” -> “Open with Github Desktop” -> “Clone” to the folder of your choice

Step 5: Open in Visual Studio Code

Step 6: Create/modify files and complete your assignment in VS Code

Step 7: Back to GitHub Desktop, add a commit message, and click “Commit to Main” then “Push Origin”

Step 8: Now GitHub classroom will contain your changes. Can repeat Step 6 and 7 as many times as needed to keep changing files.

Step 9: Submit the link to your repo on BCourses