

Introduction

- Course Introduction & Logistics
- Setting up GitHub Pages
- Introduction to the HTML Structure

Syllabus Review

Student Taught Course | Building Personal Websites

Spring 2018
Thurs. 6:30pm – 7:30pm
odadfar@andrew.cmu.edu
Office Hours by Request

Description | In today's digital age, having a personal website makes it substantially easier to share information about yourself to employers and colleagues. In this course, students will learn the principles of web development in order to build their own personal website. Topics include basic HTML components, static elements, dynamically functioning elements, interactive graphics, loading content from text files, optimizing screen sizes & runtimes, and cross-browser support. The course will be taught in HTML, CSS, and JavaScript (jQuery). Students will be building their own website over the course of the semester, with the final project requiring students to submit a personal resume website that they can then keep when finishing the course. There is no cost associated with the course. Students must provide their own hardware.

Requirements | This course assumes no prior knowledge of website development.

Resources | This course will be taught using HTML, CSS, & JQuery. All browsers already come with the ability to run these files. For the best performance, students are advised to download the following browsers (Chrome, Firefox, Edge, Safari) for cross-browser support with their websites.

Objectives | Following this course, students will be familiar with HTML, CSS, & JavaScript and be able to build their own dynamic websites from scratch.

Assessments | The course will consist of a series of check-in assignments to make sure the student is caught up with the coursework. For each week, students will add certain content to their websites, building it up until the Final Assignment where they will submit the personal resume website that they have been working on during the semester.

Attendance | Attendance is determined by whether the weekly submission a student makes demonstrates noticeable progress on the website. Students will be highly encouraged to use new material learned in the previous week by implementing it into their website. Students who miss a day may talk to the professor outside of class and catch up with the material, but should attempt to modify their website and still make a submission for that week. StuCo policy does not allow more than 2 absences per student.

Integrity | Students must build their own websites. Students are allowed to copy small chunks of code from other websites for reference, but nothing substantial like an entire page should be copied. Students are free to use online images and graphics on their websites.

Main Points

- This course assumes no prior knowledge of website development
- Taught using HTML, CSS, & JQuery
- Two Absences allowed by StuCo Policy
- Short, fun polls to track attendance
- Must provide own hardware
- Each homework asks you to build upon your website with content from the most recent lecture

Lecture
New Concepts

Live Demo
Examples

Work Session
Ask Questions, Work on Site

Grading

Goals

- To develop a personal website (resume, portfolio, etc.)
- Commit changes each week to GitHub Pages

Site Progress Log

- Google Doc listing what files you updated per week.
- Helps find what changes made to site.

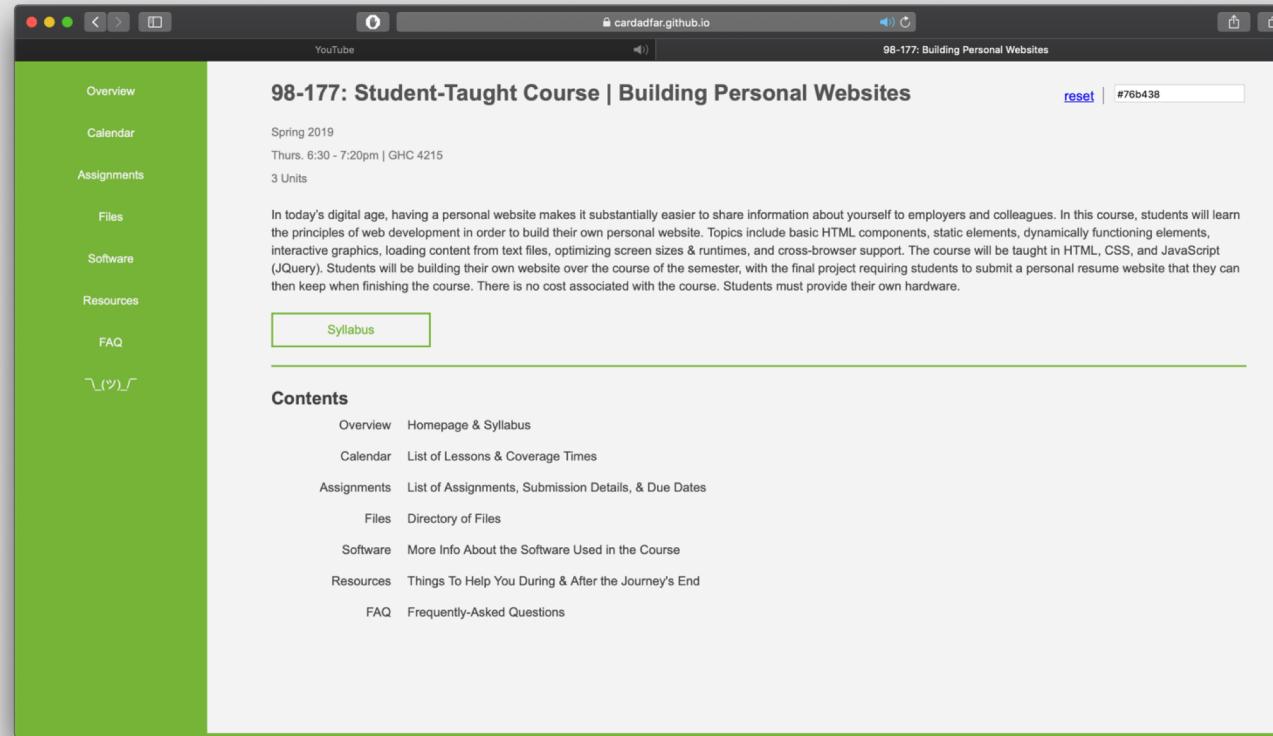
Professor's Notes:

Follow the format below to record updates to your site. For each file you worked on, label the file, and under it include a few points of what you added to the site. If your weekly contribution did not include working on any files, put notes under 'General' for the week. This lets me know what updates I should look for in your sites.

If you made a credible effort on a component that did not work in the end, add a note about it not working, and we can take a look at it. The intention is to get each student to work for an hour outside class each week on their site, and getting non-working results is still work put into the course.

Create a copy of this file, remove this note, and name it '[andrew ID] Site Progress'. I trust that every student will be responsible and edit their own files, though you are more than welcome to look into other students' Site Progress files for inspiration on what to add to your own site.

Course Webpage



<https://tinyurl.com/stuco-bpw>

* bookmark this *

The Usual Suspects

WHAT ARE WE?



BROWSERS!



BROWSERS!



BROWSERS!



**WHAT DO WE
WANT?**



SPEED!



SPEED!



SPEED!



**AND WHEN DO
WE WANT IT?**



NOW!



NOW!



NOW!



BROWSERS!



What You Will Need

- Browsers (To test on different platforms)
 - Chrome
 - Safari (Mac only)
 - Edge
 - Firefox (People still use this)
- Text Editors
 - Sublime
 - Notepad (For the brave)
- Software
 - HTML & CSS (Integrated in browsers)
 - JQuery (Will discuss later)

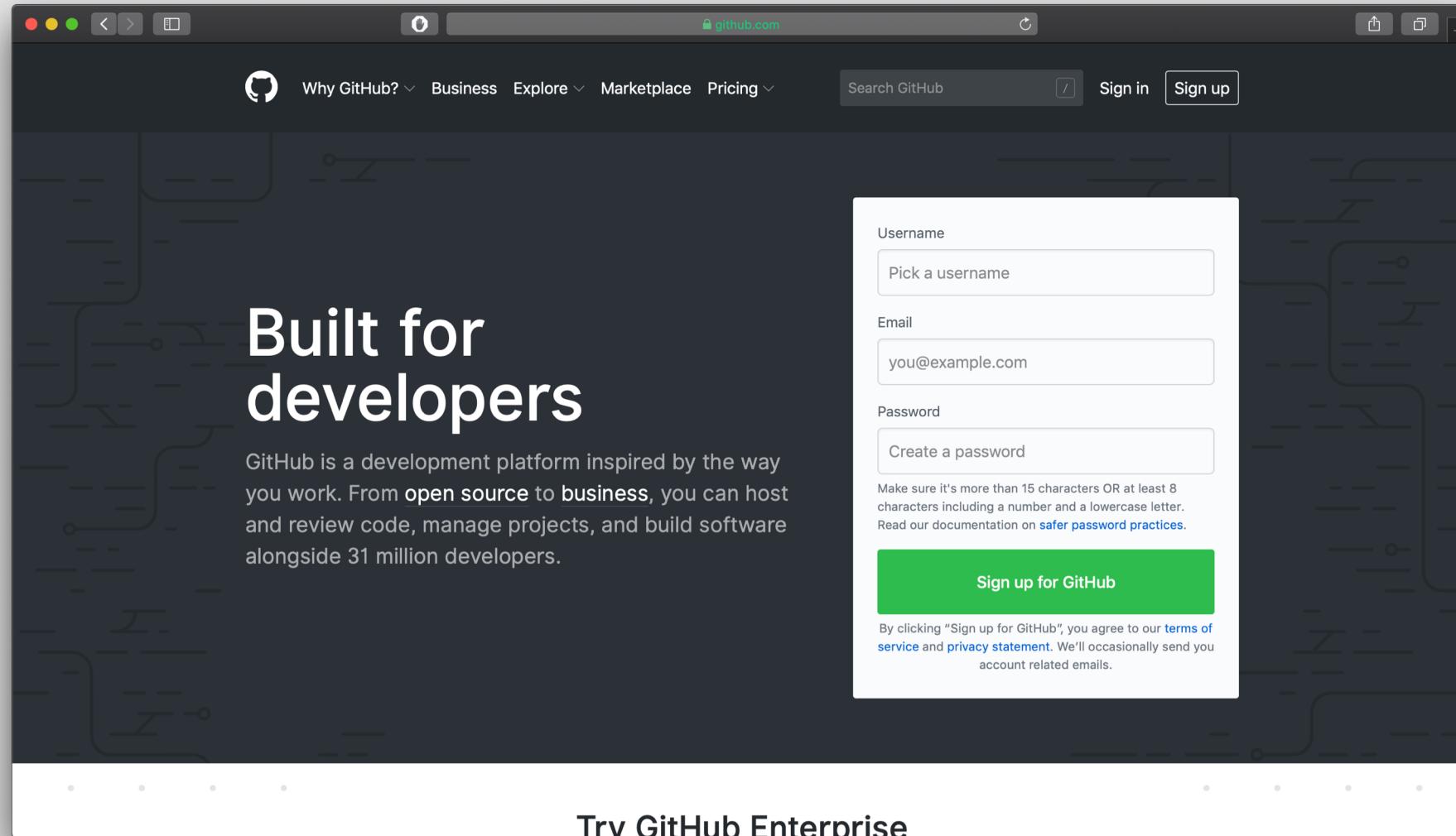
WEAN & CFA Clusters
have iMacs with Safari



Questions?

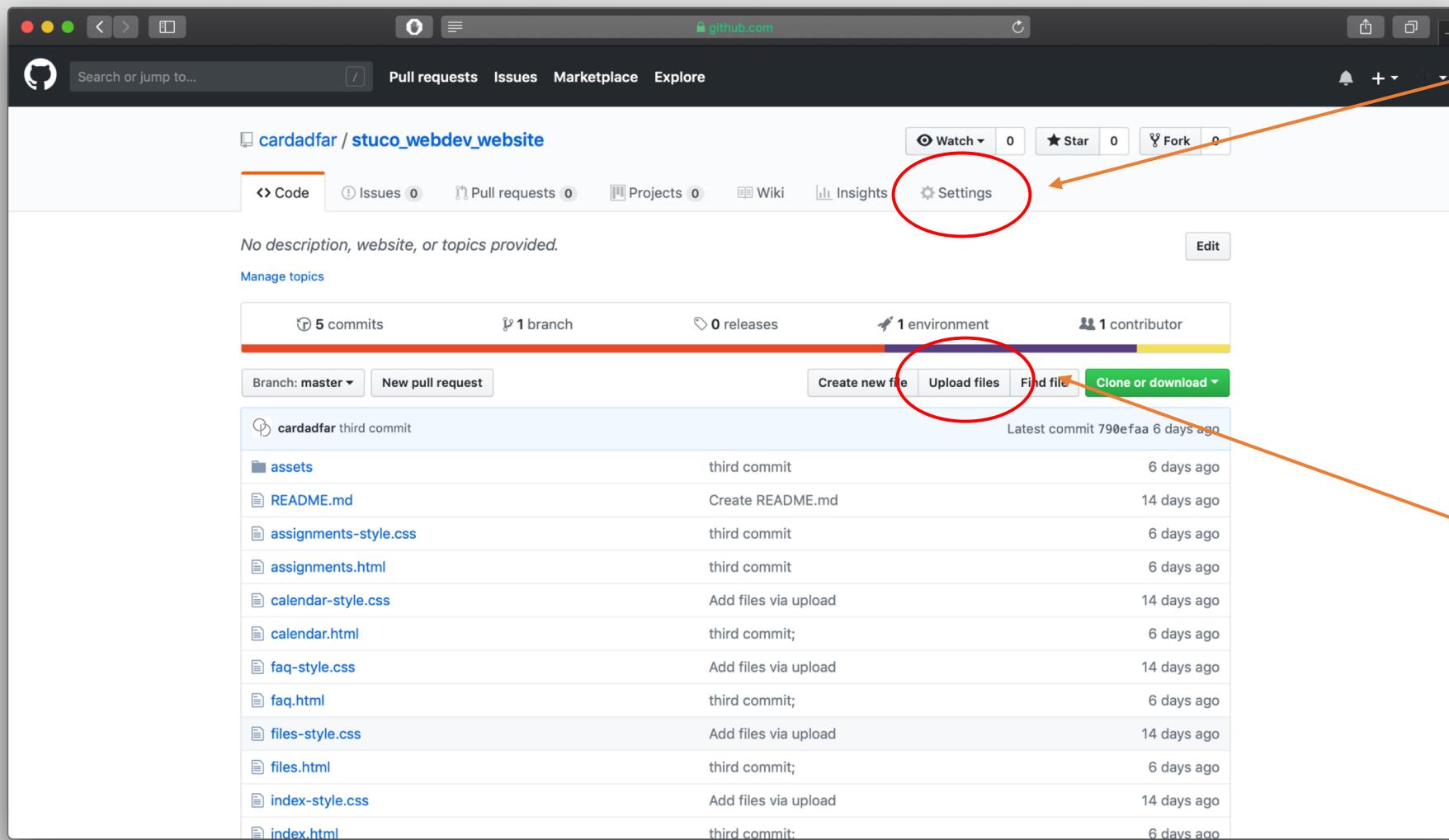
• Course Introduction & Logistics

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Try GitHub Enterprise

Create a free GitHub account



Create a live page
for your site

Upload files from
your computer

GitHub Pages

GitHub Pages is designed to host your personal, organization, or project pages from a GitHub repository.

Source

GitHub Pages is currently disabled. Select a source below to enable GitHub Pages for this repository. [Learn more.](#)

None ▾

Save

Select source

X

master branch

Use the master branch for GitHub Pages.

master branch /docs folder

Use only the /docs folder for GitHub Pages.

✓ None

Disable GitHub Pages.

Make sure to have an **index.html** file as the homepage.

This is what GitHub Pages looks for to start at.

A screenshot of a GitHub repository page for 'cardadfar / stuco_webdev_website'. The page shows basic repository statistics: 5 commits, 1 branch, 0 releases, 1 environment, and 1 contributor. A red oval highlights the 'Clone or download' button in the top right corner of the main content area. Below the stats, a list of files and their commit history is shown.

File	Commit Message	Time Ago
assets	third commit	6 days ago
README.md	Create README.md	14 days ago
assignments-style.css	third commit	6 days ago
assignments.html	third commit	6 days ago
calendar-style.css	Add files via upload	14 days ago
calendar.html	third commit;	6 days ago
faq-style.css	Add files via upload	14 days ago
faq.html	third commit;	6 days ago
files-style.css	Add files via upload	14 days ago
files.html	third commit;	6 days ago
index-style.css	Add files via upload	14 days ago
index.html	third commit:	6 days ago

Clone repository to a local directory.
Any changes you make to that directory can be uploaded back to GitHub.

Pushing Changes to GitHub

Add files to a queue ready to be pushed

```
git add 'filename'
```

To add all files in current directory

```
git add .
```

Add a commit message (good place to mention what you've changed)

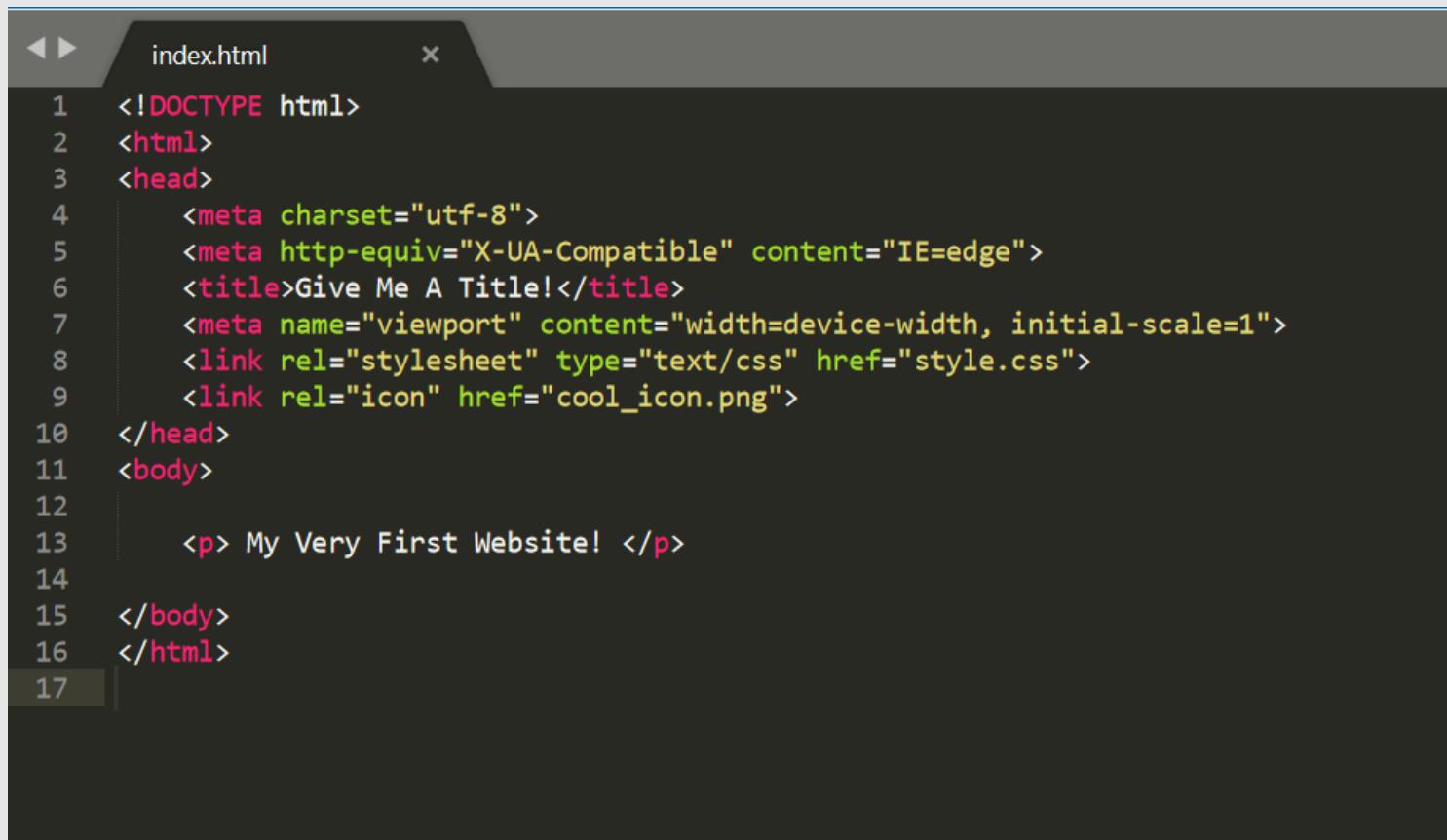
```
git commit -m 'public commit message'
```

Push changes

```
git push
```

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HTML Structure



A screenshot of a code editor window titled "index.html". The code editor shows the following HTML structure:

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4   <meta charset="utf-8">
5   <meta http-equiv="X-UA-Compatible" content="IE=edge">
6   <title>Give Me A Title!</title>
7   <meta name="viewport" content="width=device-width, initial-scale=1">
8   <link rel="stylesheet" type="text/css" href="style.css">
9   <link rel="icon" href="cool_icon.png">
10 </head>
11 <body>
12
13   <p> My Very First Website! </p>
14
15 </body>
16 </html>
```

source | [html_starter.html](#)

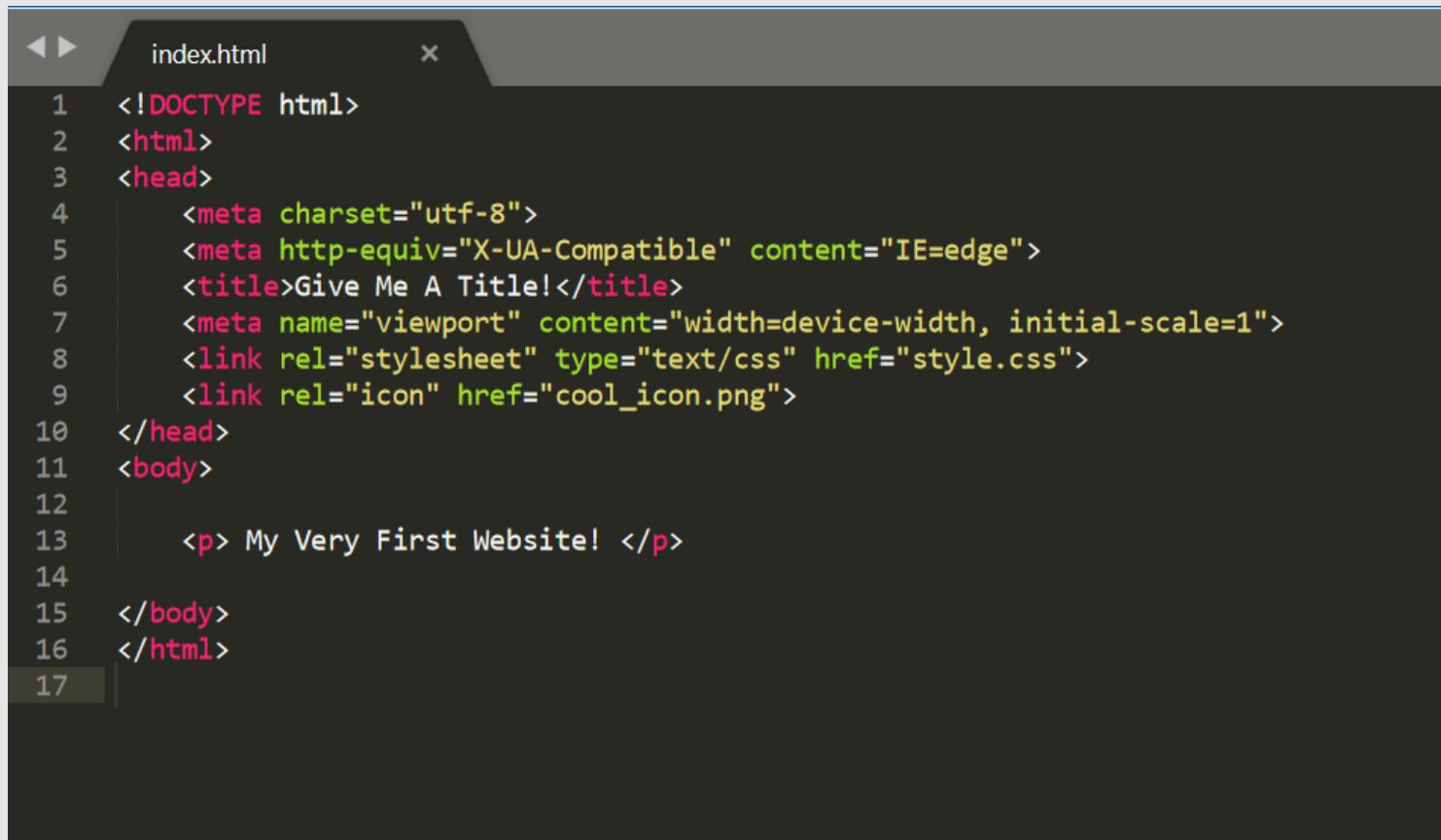
HTML comes in Tag:Content pairs

< tag content="content" >

< tag > content </ tag >

The type of tag dictates what form it is

HTML Structure



```
index.html
1 <!DOCTYPE html>
2 <html>
3 <head>
4   <meta charset="utf-8">
5   <meta http-equiv="X-UA-Compatible" content="IE=edge">
6   <title>Give Me A Title!</title>
7   <meta name="viewport" content="width=device-width, initial-scale=1">
8   <link rel="stylesheet" type="text/css" href="style.css">
9   <link rel="icon" href="cool_icon.png">
10 </head>
11 <body>
12   <p> My Very First Website! </p>
13 </body>
14 </html>
```

source | [html_starter.html](#)

```
< html >
< head >
  < meta ... >
  < title > .... </ title >
  < link ... >
</ head >
< body >
  < p > ... </ p >
</ body >
</ html >
```

Homework Ideas

- Every week I will give you recommendations on what to work on to update your site.
- Recommendations will usually be made based on the topics most recently taught.
- You do not have to implement recommendations, choose what you want to do.

Homework Ideas

This week for homework, everyone **must** do the following:

- Bookmark the course website.
- Download Sublime (or other text editor), and Chrome, Firefox, Edge, and Safari (Mac Only)
- Create a GitHub account (if not already).
- Create a new repository for your website.
- Include a new index.html file with the html_starter.html code on the course website.
- Clone your repository to a local directory.
- Make a Git Page from your repository.
- Send an email to Andrew ID *odadfar* with your Andrew ID and a link to your published site.
- Create your own Site Progress Log doc on the shared course Drive (duplicate template).
- Add the above fields to your Week 01 Progress Log entry.

Live Demo