



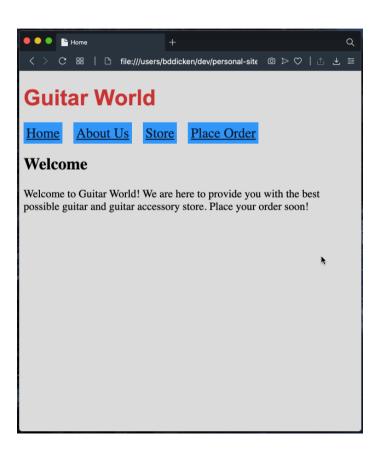
CSc 337 - HTML

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HyperText Markup Language

- Markup Language != Programming Language
- HTML specifies the *content* of the website
- Not responsible for
 - Style (colors, fonts, positioning, etc)CSS
 - Animation / InteractionCSS / Js
 - Functionality / ComputationsJs
 - NetworkingJs

The Goal



Text Editor, Vim

- I'll be using vim a lot for this class
- Remote sessions
- Vim Tutorial
- How to get setup for Windows

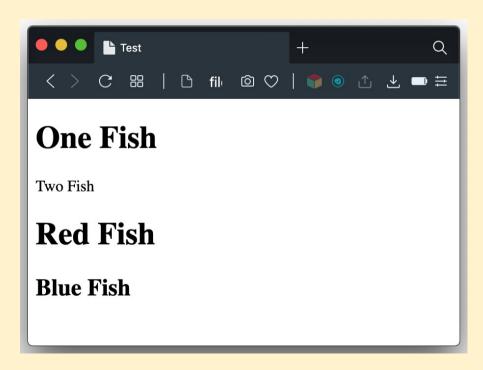
```
<!DOCTYPE html>
<html>
  <head>
  </head>
  <body>
  </body>
</html>
```

```
<!DOCTYPE html>
<html>
  <head>
    <title>Guitar World</title>
  </head>
  <body>
    This website is all about guitars.
  </body>
</html>
```

```
<!DOCTYPE html>
<html>
  <head>
    <title>Guitar World</title>
 </head>
  <body>
    <h1>Guitar World</h1>
    <h2>Home Page</h2>
    <h3>Welcome!</h3>
    Buy guitars here!
 </body>
</html>
```

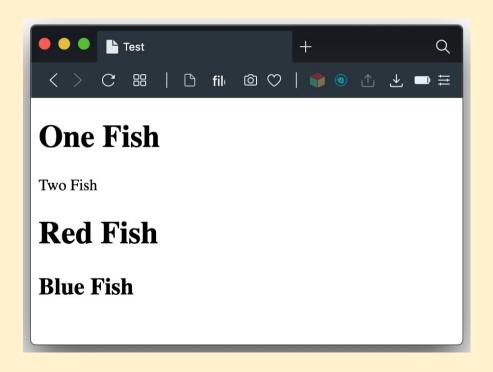
Write the HTML

What HTML in the body of a webpage would produce this result?



Write the HTML

What HTML in the body of a webpage would produce this result?



```
<body>
    <h1>One Fish</h1>
    Two Fish
    <h1>Red Fish</h1>
    <h2>Blue Fish</2>
</body>
```

Display Type

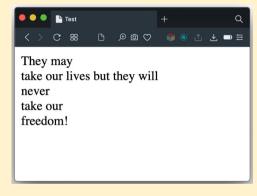
- By default, browsers display many HTML elements in either block or inline mode
- Block means that each element is on its own row, and consumes the entire page width
- Inline means that elements can be displayed inline, do not consume entire width
- vs <div>

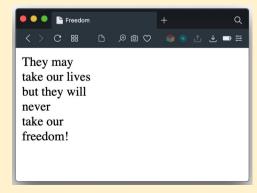
```
<!DOCTYPE html>
<html>
  <head>
    <title>Guitar World</title>
  </head>
  <body>
    <div>Taylor</div>
    <div>Ibanez</div>
    <div>Fender</div>
    <span>Martin</span>
    <span>Yamaha</span>
    <span>Ernie Ball</span>
  </body>
</html>
```

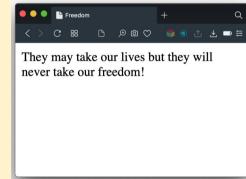
Activity

What would the HTML display?

```
<!DOCTYPE html>
<html>
  <head>
    <title>Freedom</title>
  </head>
  <body>
    <div>They may</div>
    <span>take our lives</span>
    <span>but they will</span>
    <div>never</div>
    <div>take our</div>
    <span>freedom!</span>
  </body>
</html>
```







List Data

- For displaying, well, lists
- Use
 - O to state the existence of an unordered list
 - O
 to state the existence of an ordered list
 - O represents a list element

```
<body>
  <l
   Guitar
   Bass
   Drums
  <01>
   Taylor
   Martin
   Ibanez
  </body>
```

```
<body>
  <l
  Guitars
   <l
     Acoustic
     Electric
     Air
   Bass
  Drums
  </body>
```

Tabular Data

- Often useful to display data in a grid-like format
 - ESPN stats, wikipedia data, gradebook
- Use

 - ctd> represents a data element within the table

```
<body>
Guitar
  Bass
 >
  Taylor
  Ernie Ball
 >
  Martin
  Ibanez
 </body>
```

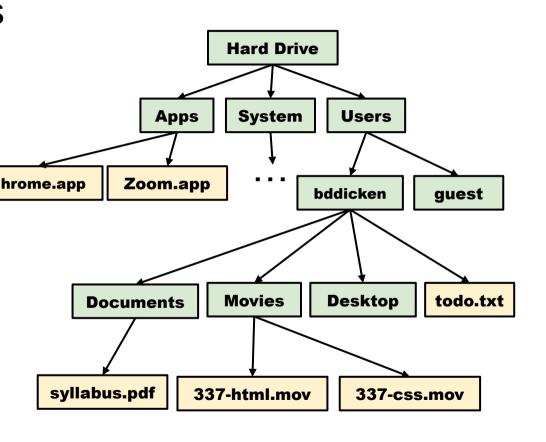
What would the HTML display?

```
<body>
 AB
 DE
 </body>
Activity
          Activity
     * • • • • • •
             < > C ==
                       AB
                    AB
          Α
CD
          BC
E F
          DEF
                    DEF
```

Files and File Systems

On (at least most of) our computers, there is a file system via which we can create, save, modify, an Chrome.app remove files

- On Mac: can browse with Finder
- On Windows: can browse with windows explorer
- File systems often hierarchical



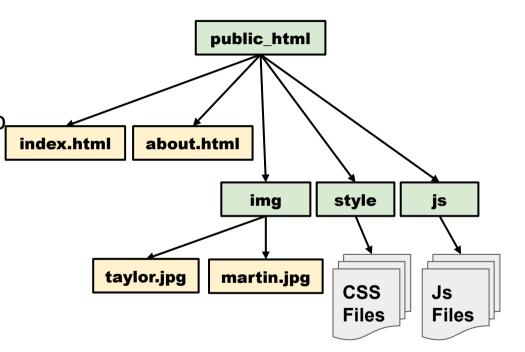
Website Structure

All files go in public_html

Always have an index.html

Can have other "pages" too,

Subfolders for resources

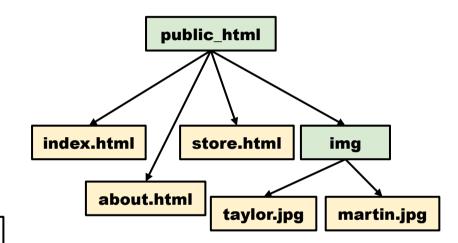


The a tag

<a> used to link from one page (html file) to another

In index.html:

```
<a href="./about.html">About Us</a>
<a href="./store.html">Shop</a>
```

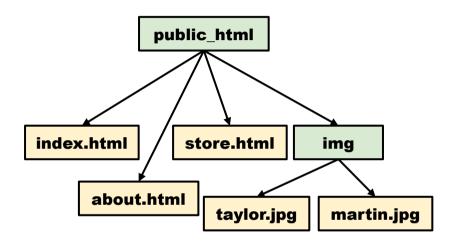


The img tag

 used to link from one page
(html file) to another, self-closing

In store.html:

```
<img src="img/taylor.jpg"
   alt="Pic of taylor Guitar"
   width="200px"
   height="100px" >
```



Let's build it!



(For now, skip "Place Order" page)

HTML Validator

https://validator.w3.org