

CSc 337 - HTML

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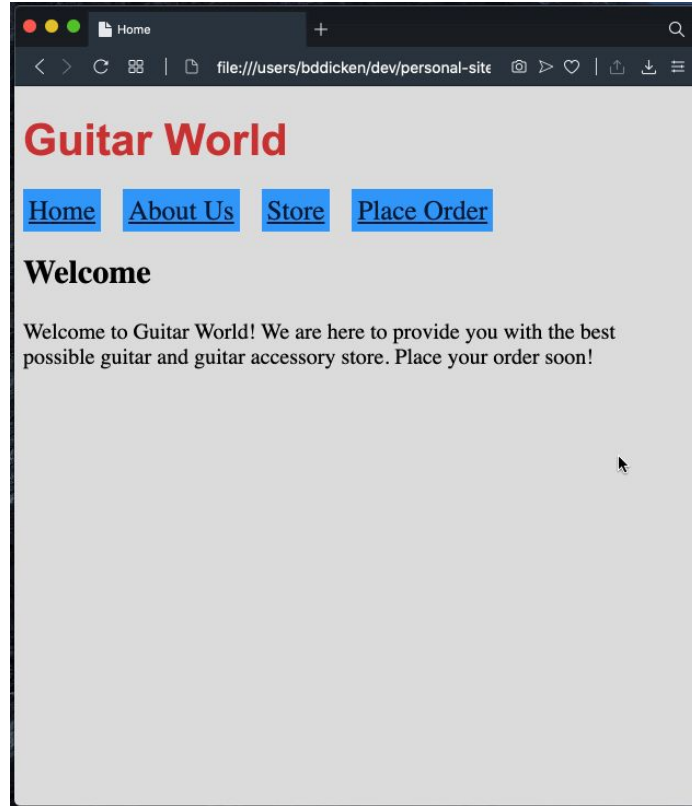
Announcements

- Discord server is up
- Check office hour schedule
- PA 1 deadline

HyperText Markup Language

- Markup Language != Programming Language
- [HTML](#) specifies the **content** of the website
- Not responsible for
 - Style (colors, fonts, positioning, etc) **CSS**
 - Animation / Interaction **CSS / Js**
 - Functionality / Computations **Js**
 - Networking **Js**

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.
```

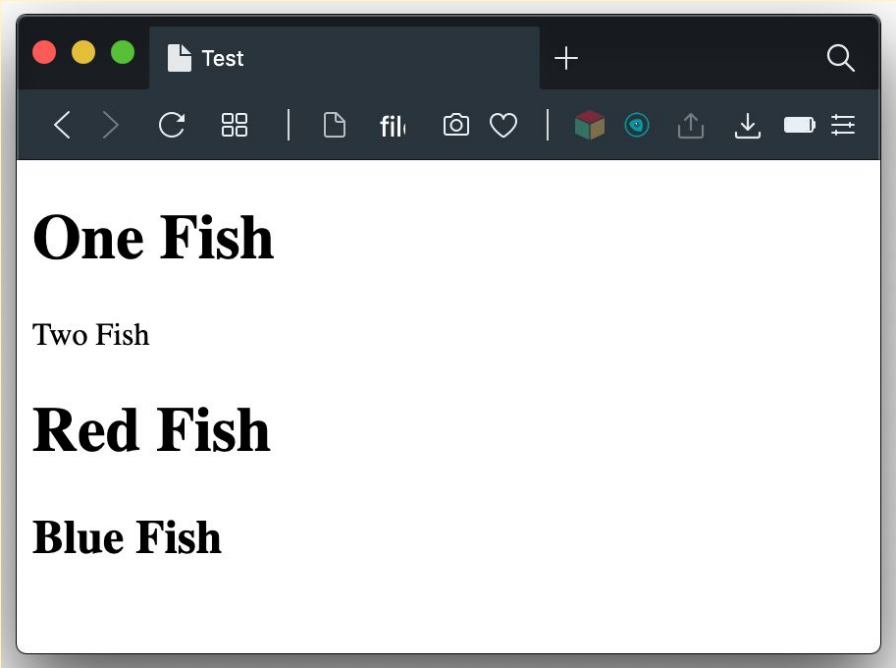
```
  </body>
```

```
</html>
```

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

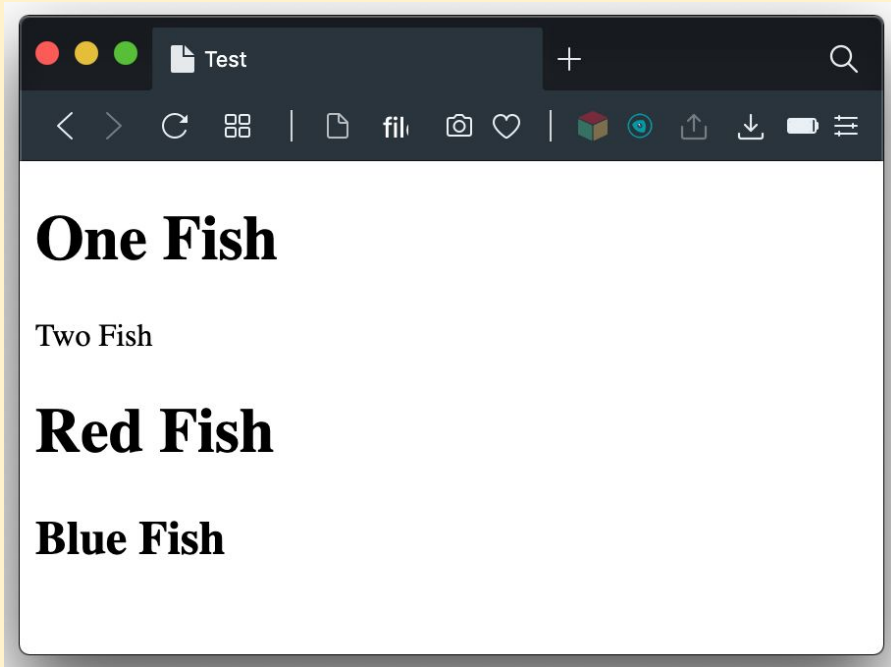

Write the HTML

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

Display Type

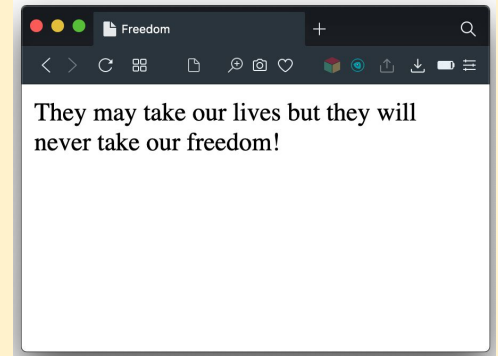
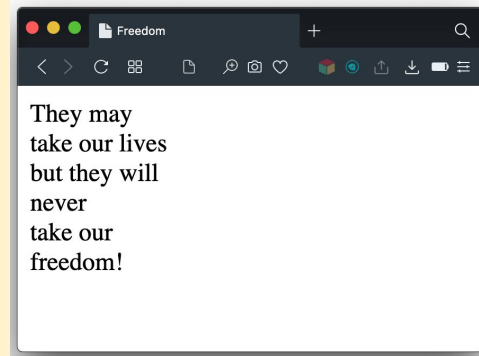
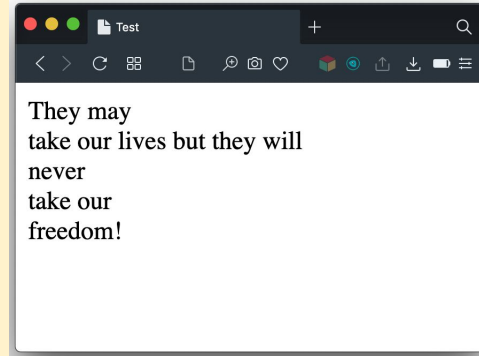
- By default, browsers display many HTML elements in either **block** or **inline** mode
- Block means that each element is on its own row, and consumes the entire page width
- Inline means that elements can be displayed inline, do not consume entire width
- **** vs **<div>**

https://www.w3schools.com/css/css_inline-block.asp

```
<!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>
```

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
 - `` to state the existence of an **unordered** list
 - `` to state the existence of an **ordered** list
 - `` represents a list element

```
<body>
  <ul>
    <li>Guitar</li>
    <li>Bass</li>
    <li>Drums</li>
  </ul>
  <ol>
    <li>Taylor</li>
    <li>Martin</li>
    <li>Ibanez</li>
  </ol>
</body>
```

```
<body>
  <ul>
    <li>Guitars
      <ul>
        <li>Acoustic</li>
        <li>Electric</li>
        <li>Air</li>
      </ul>
    </li>
    <li>Bass</li>
    <li>Drums</li>
  </ul>
</body>
```

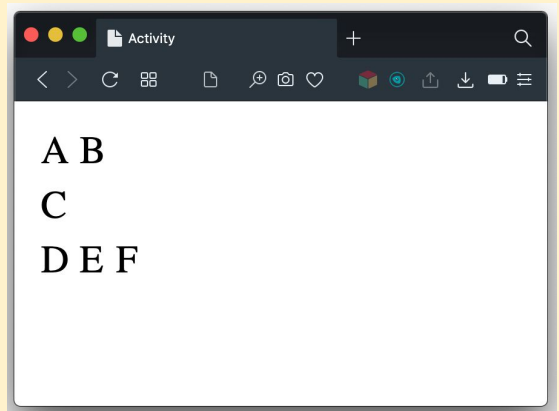
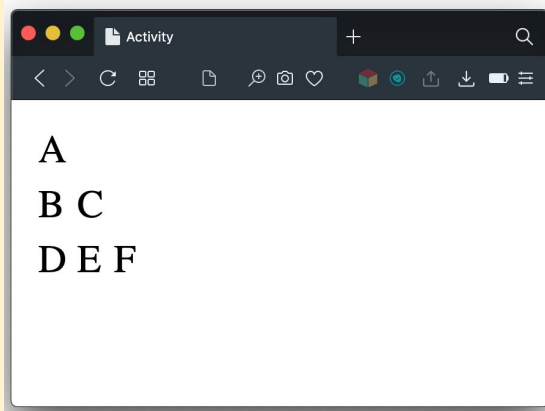
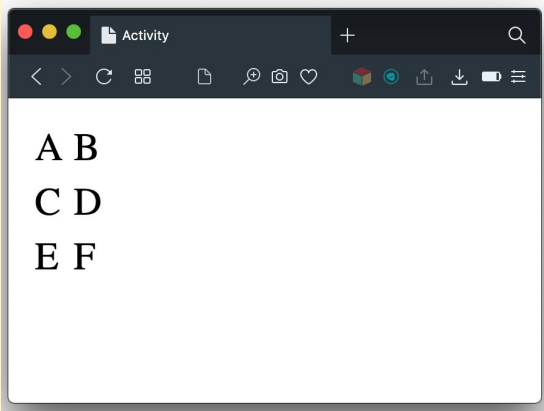

Tabular Data

- Often useful to display data in a grid-like format
 - ESPN stats, wikipedia data, gradebook
- Use
 - **<table>** to state the existence of the table, and within
 - **<tr>** represents a row in the table
 - **<th>** represents a header element within the table
 - **<td>** represents a data element within the table

```
<body>
  <table>
    <tr>
      <th>Guitar</th>
      <th>Bass</th>
    </tr>
    <tr>
      <td>Taylor</td>
      <td>Ernie Ball</td>
    </tr>
    <tr>
      <td>Martin</td>
      <td>Ibanez</td>
    </tr>
  </table>
</body>
```

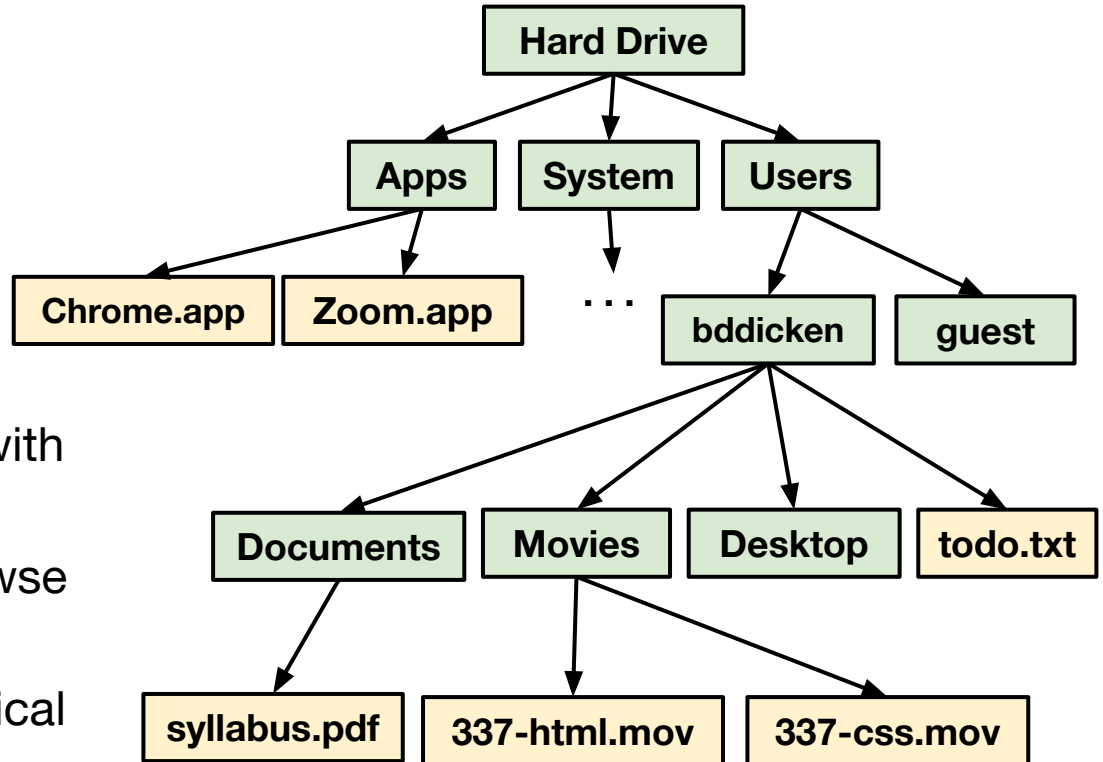
What would the HTML display?

```
<body>  
  <table>  
    <tr><td>A</td></tr><tr><td>B</td><td>C</td></tr>  
    <tr><td>D</td><td>E</td><td>F</td></tr>  
  </table>  
</body>
```



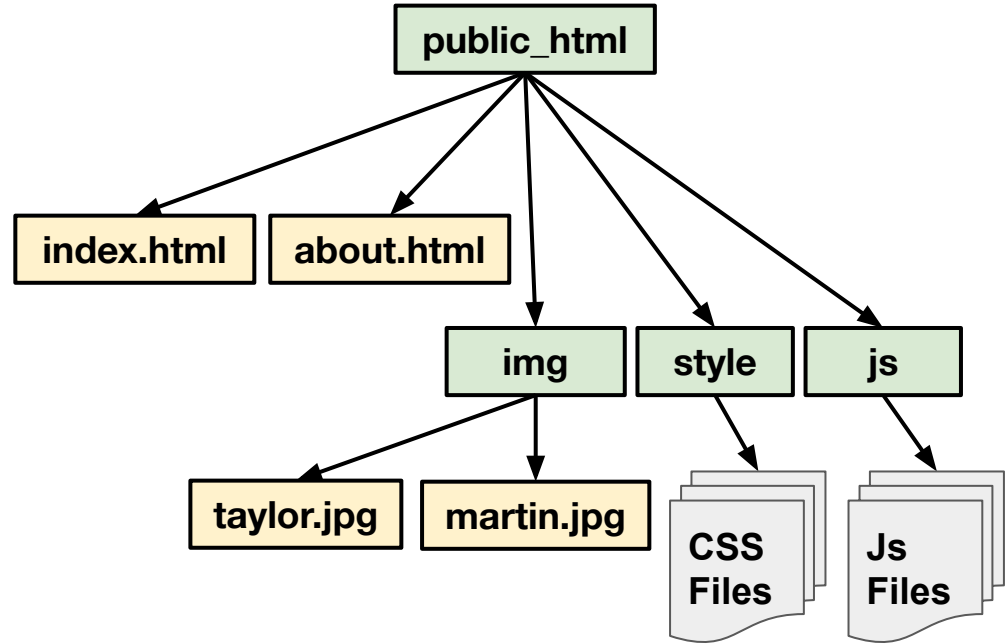
Files and File Systems

- On (at least most of) our computers, there is a **file system** via which we can create, save, modify, and 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

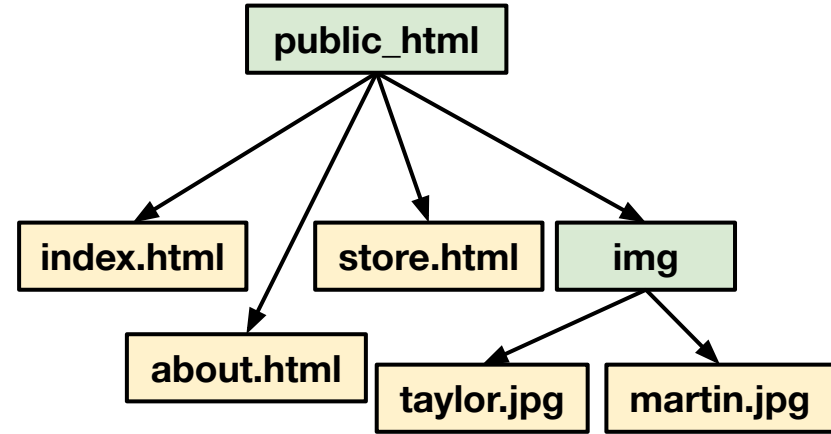


The a tag

`<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>
```



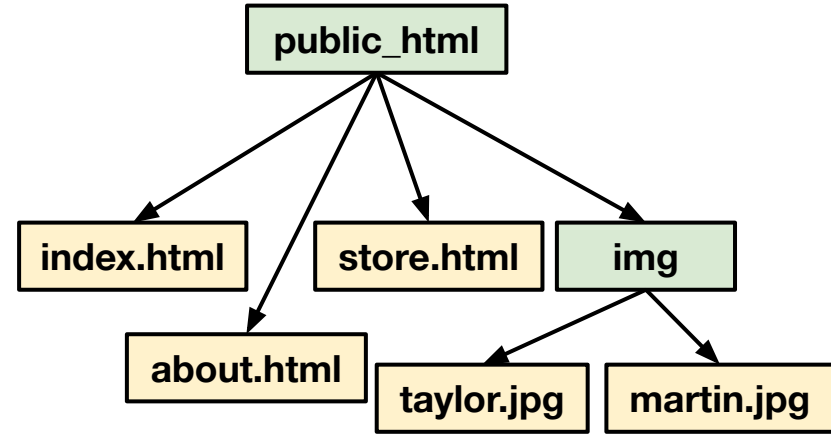
The img tag

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

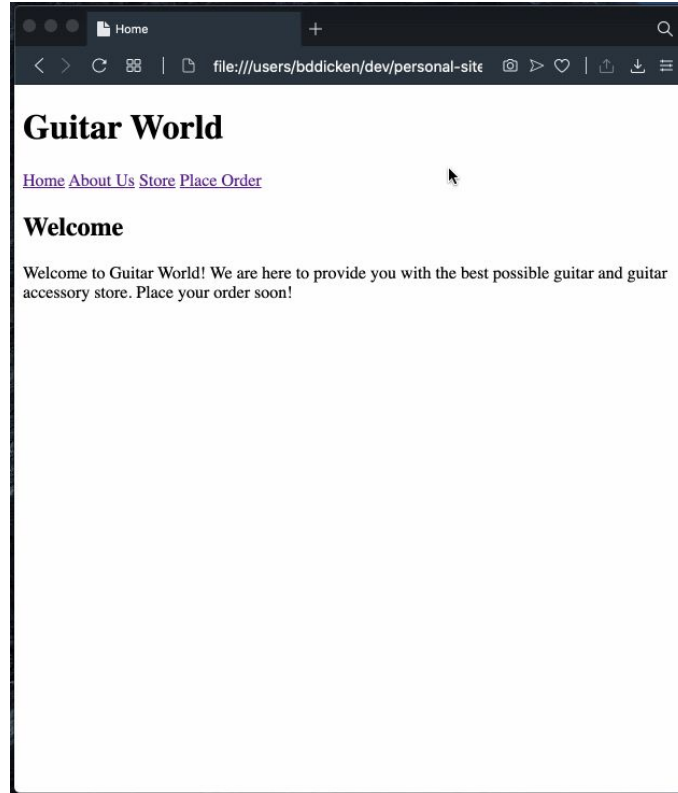
In `store.html`:

```

```



Let's build it!



(For now, skip “Place Order” page)

HTML Validator

<https://validator.w3.org>