Section 0

Week of January 28

Outline

- Introduction
- Git
- HTML
- CSS
- Project 0

Introduction: About Me

Elle Buellesbach
Senior in Computer Science, Yale University
elle.buellesbach@yale.edu

Office Hours: Tuesdays 12-3PM EST
Section: Wednesdays 11-12:30PM EST

Introduction: Zoom

- Keep microphones muted unless speaking
- Questions:
  - Use the chat box OR
  - Indicate you'd like to ask a question via chat box and unmute yourself
- Breakout rooms
  - Use for office hours

Introduction: The Course

- Project 0 due Monday February 11th
- All sections will be recorded and posted within 48 hours
- All office hour times and sections posted on the website
- CS50 Discourse for discussion

Expectation for section:

- Watch the lecture released on the Monday prior
- Read the project specification
- All section files will be found at https://github.com/ebuellesbach/2019cscie33

Git: Version Control

Features:

- Track changes of code
- Synchronizes code between different people or projects
- Revert to old versions of code
- Can test new features without loosing the original

Common commands:

```
clone
add
commit
push
pull
```

Keywords: Remote, local, repository

HTML

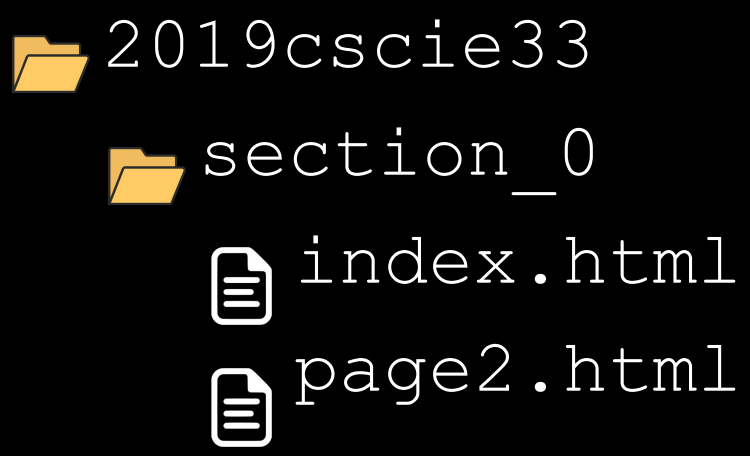
- HyperText Markup Language
- Allows for the formatting of text (markup language) for websites

Keywords: tag

HTML Links

```
<a href=[URL or Filename]> Click Me! </a>
```

Example file structure:

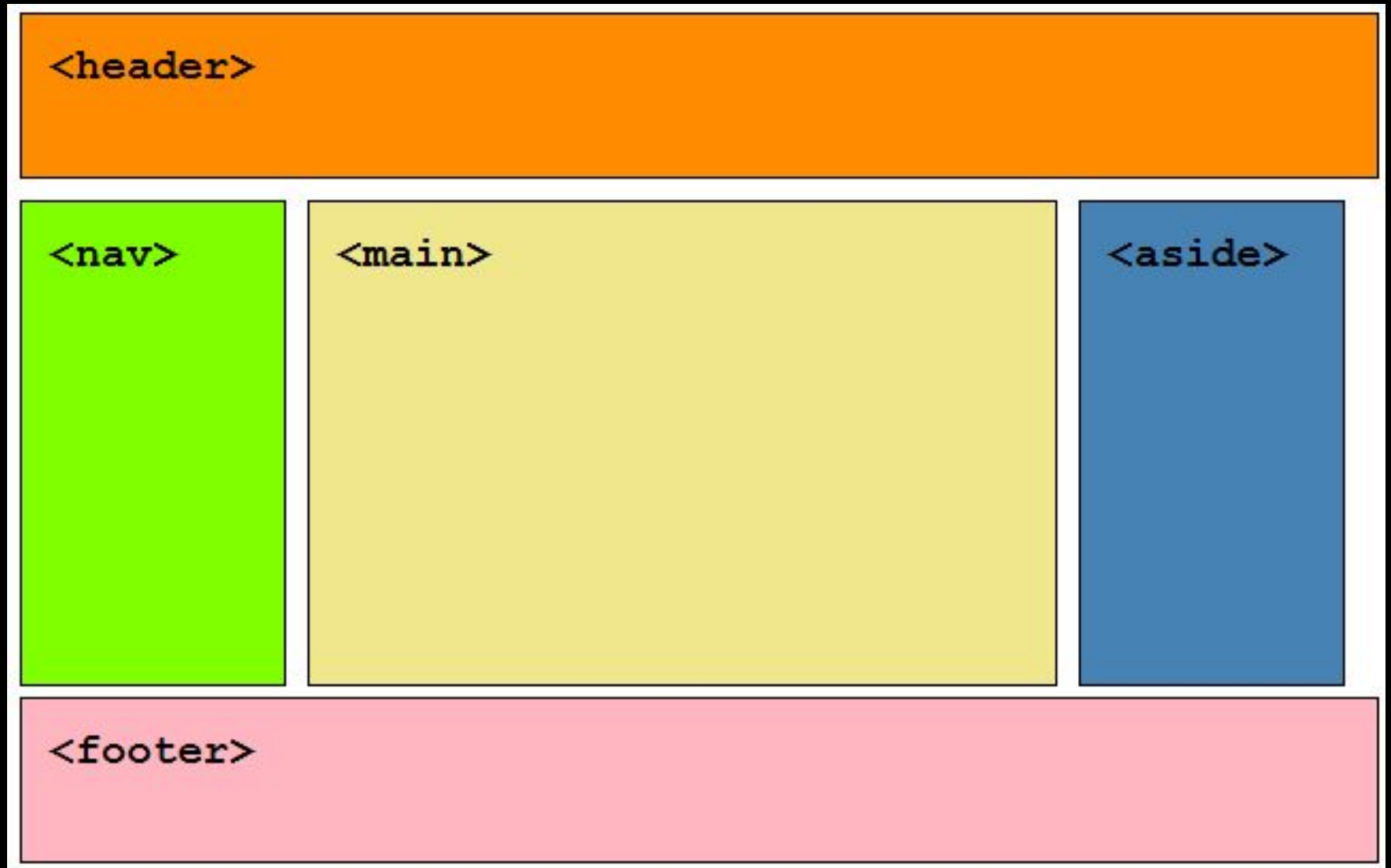


Keywords: directory

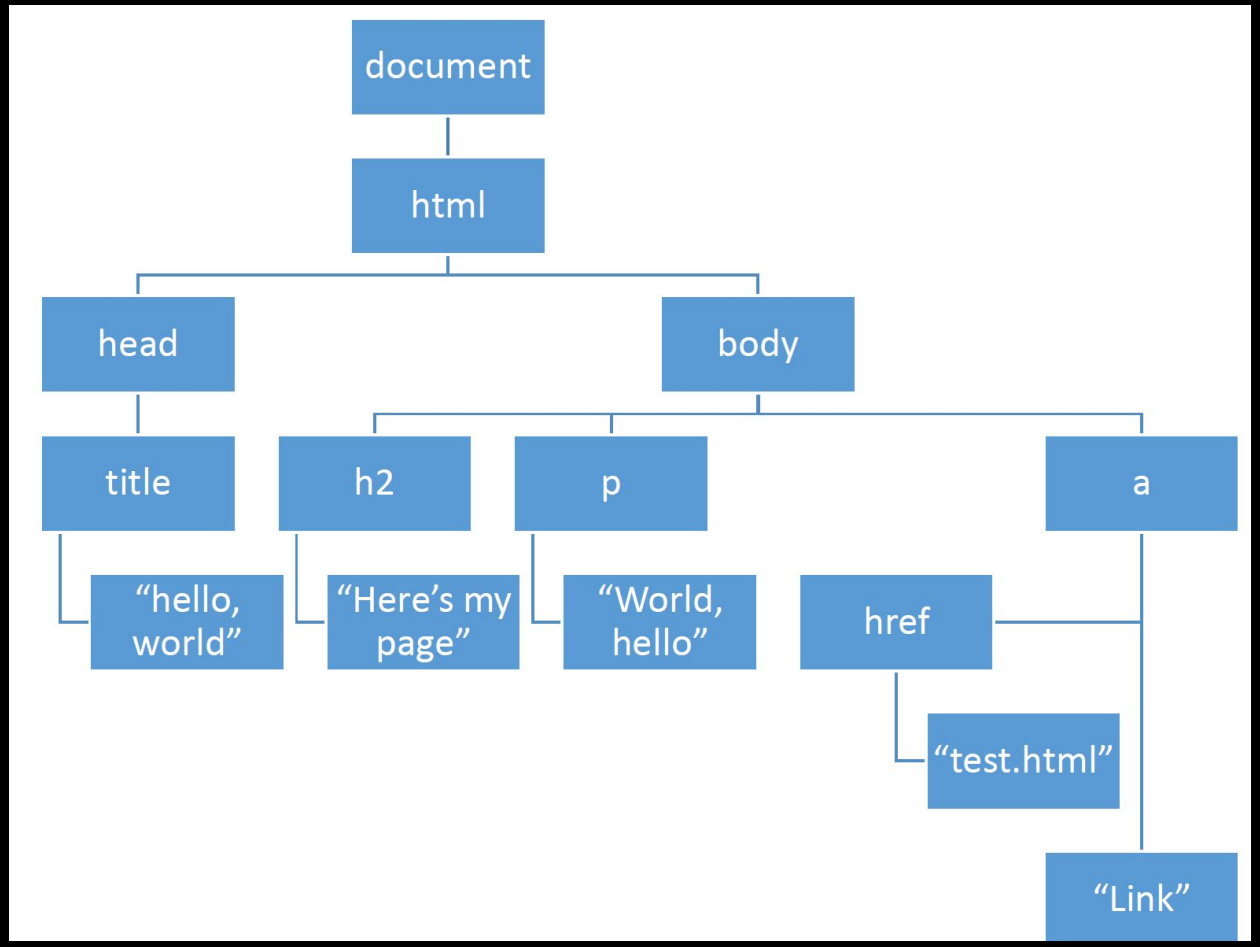
Document Object Model

- How HTML is organized
- This was referenced in the first lecture as DOM and will be important for later weeks to make pages more dynamic

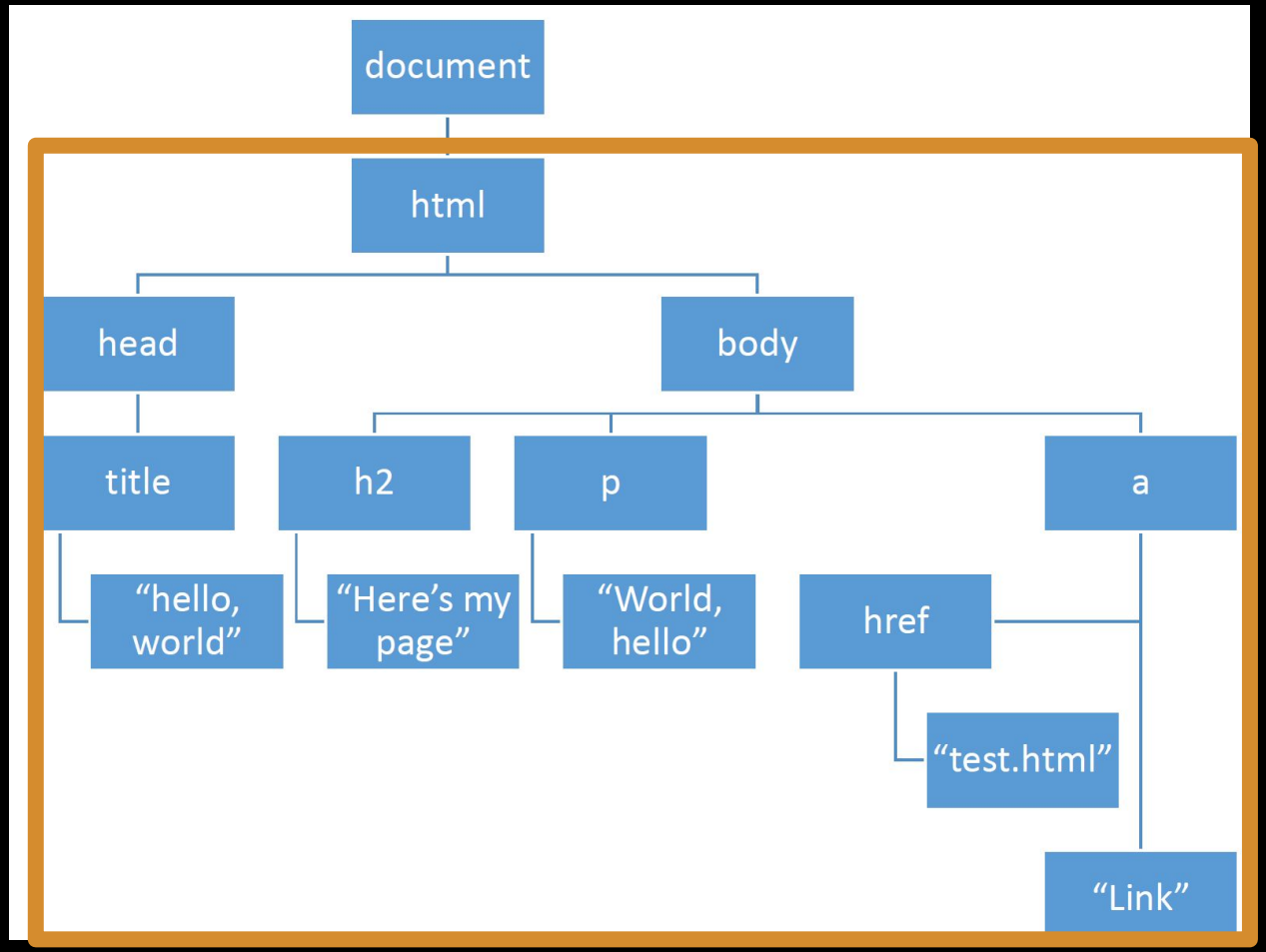
Keywords: child, sibling, parent, element


<header>
<nav>
<main>
<aside>
<footer>

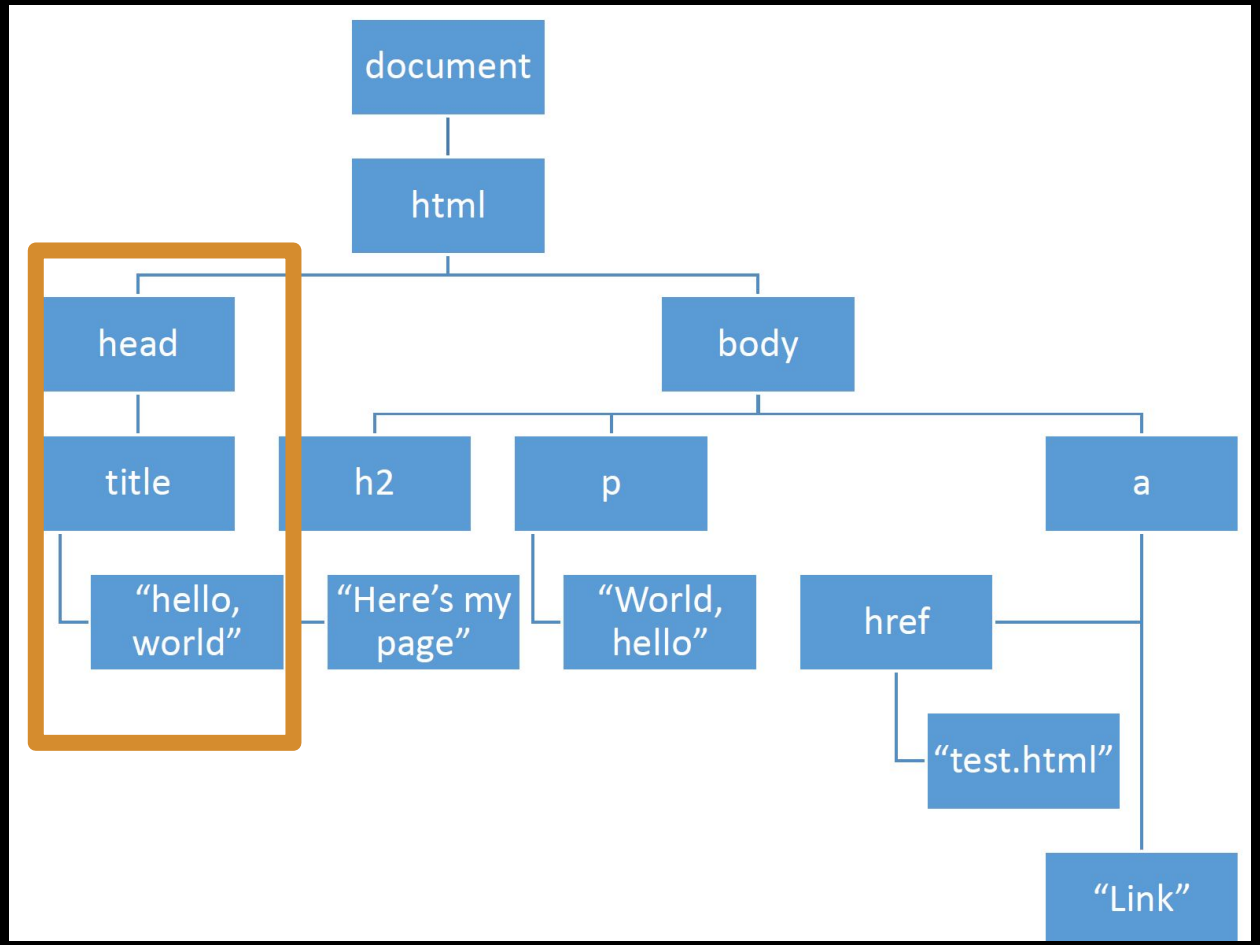
```
<html>
  <head>
    <title>Hello, world</title>
  </head>
  <body>
    <h2>Here's my page</h2>
    <p>World, hello</p>
    <a href="test.html">Link</a>
  </body>
</html>
```



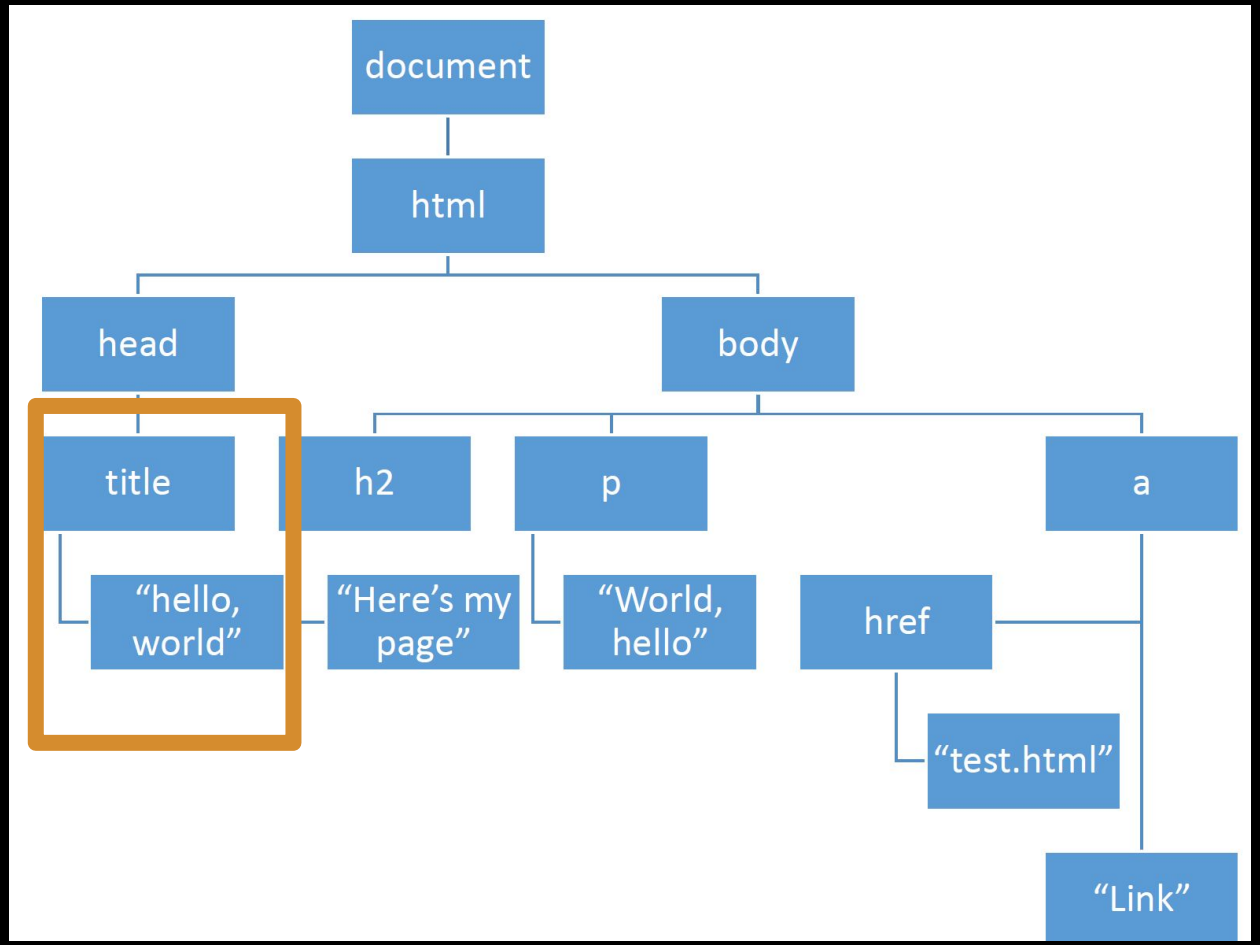

```
<html>
    <head>
        <title>Hello, world</title>
    </head>
    <body>
        <h2>Here's my page</h2>
        <p>World, hello</p>
        <a href="test.html">Link</a>
    </body>
</html>
```



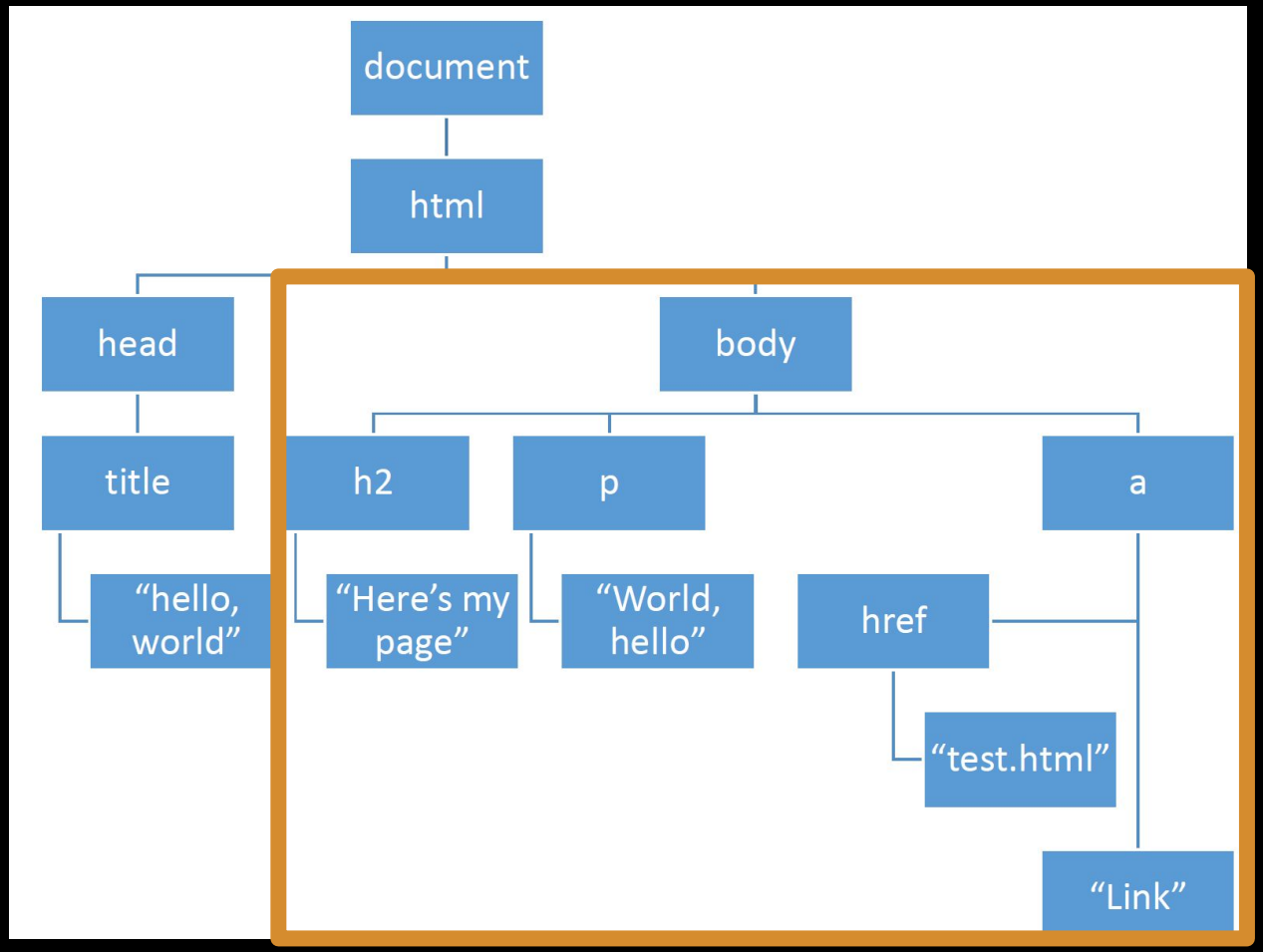

```
<html>
    <head>
        <title>Hello, world</title>
    </head>
    <body>
        <h2>Here's my page</h2>
        <p>World, hello</p>
        <a href="test.html">Link</a>
    </body>
</html>
```




```
<html>
    <head>
        <title>Hello, world</title>
    </head>
    <body>
        <h2>Here's my page</h2>
        <p>World, hello</p>
        <a href="test.html">Link</a>
    </body>
</html>
```




```
<html>
    <head>
        <title>Hello, world</title>
    </head>
    <body>
        <h2>Here's my page</h2>
        <p>World, hello</p>
        <a href="test.html">Link</a>
    </body>
</html>
```




```
<html>
    <head>
        <title>Hello, world</title>
    </head>
    <body>
        <h2>Here's my page</h2>
        <p>World, hello</p>
        <a href="test.html">Link</a>
    </body>
</html>
```

Cascading Style Sheets: CSS

- A way to add style to the HTML pages
- Generally best practice, have a seperate CSS and HTML file
  - Link put into the `<head>` tag

```
<link rel="stylesheet" href="styles.css">
```

- Class selector: **.**
- ID selector: #

Keywords: selector

Advanced CSS and HTML

`a, b`	Multiple Element Selector
`a b`	Descendant Selector
`a > b`	Child Selector
`a + b`	Adjacent Sibling Selector
`[a=b]`	Attribute Selector
`a:b`	Pseudoclass Selector
`a::b`	Pseudoelement Selector

Any remaining questions?