# Introduction to HTML

Adapted from slides by Crystal Hess

# Learning Goals
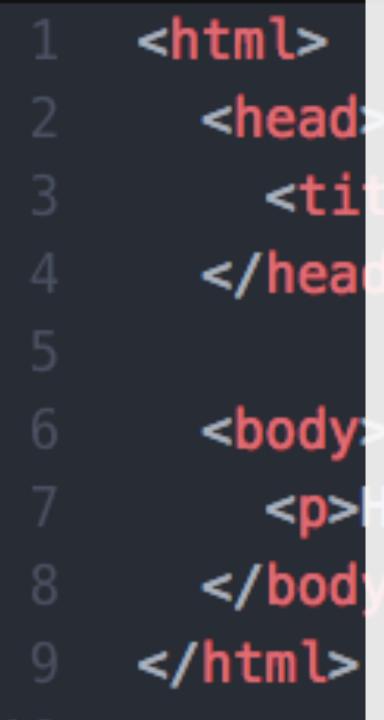
- What is the HTML skeleton?

- Why is it important to write proper/valid HTML?

- What are some common HTML tags?


- Vocab: Internet, Web, HTML, Web Browser

# Web Vocab

- Internet
  - The hardware infrastructure of connected computers and wires

- World Wide Web (www) (http)
  - The information on the Internet made up of files and folders stored on computers

- Hyper Text Markup Language (html)
  - The language that we code webpages with

- Web Browser
  - Interprets html and renders it visually

# Your first webpage

1. Open up https://codepen.io/pen/

2. Type "Hello World!" in the document and save the file as first.html

3. Go to File Explorer and open the file

There are two ways to view your webpage

- Source code view
  - this is where we right our code

- Web browser view
  - this is where we see how the code we wrote displays on the web

Let's check out the source code of a site you visit.

# Writing Proper HTML

- A markup validator checks whether your markup follows the rules
  - Only allowed elements are used
  - Tag names are spelled correctly
  - Opening and closing tags are matched
  - No grammar rules are violated
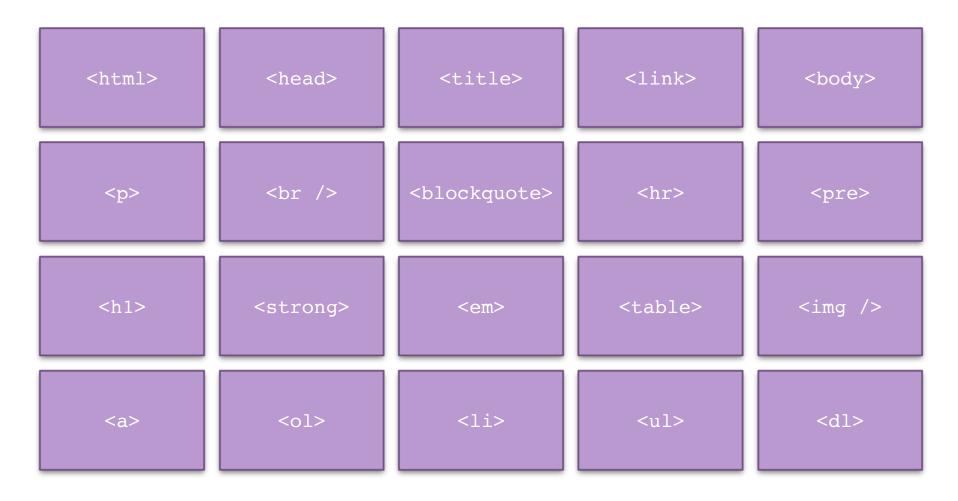

- W3C Markup Validator
  - http://validator.w3.org

# HTML Skeleton

```
1   <html>
2     <head>
3       <title>My first webpage</title>
4     </head>
5
6     <body>
7       <p>Hello World</p>
8     </body>
9   </html>
10
```

# About HTML tags

- HTML tags normally come **in pairs** like <p> and </p>

- Tags should be all lowercase

- The first tag in a pair is the **start tag,** the second tag is the **end tag**

- The end tag is written like the start tag, but with a **forward slash** inserted before the tag name

- **Properly nesting** tags means that you must close the most recently opened tag before closing an earlier tag;
  - e.g. `<p><strong>Like this</strong></p>`
    `not <p><strong>Like this</p></strong>`

# Common HTML tags

| | | | | |
|---|---|---|---|---|
| `<html>` | `<head>` | `<title>` | `<link>` | `<body>` |
| `<p>` | `<br />` | `<blockquote>` | `<hr>` | `<pre>` |
| `<h1>` | `<strong>` | `<em>` | `<table>` | `<img />` |
| `<a>` | `<ol>` | `<li>` | `<ul>` | `<dl>` |

# What you need to know for this class

```html
<html>
    <head>
        <script src="script_name.js"></script>
    </head>
    <body>
    </body>
</html>
```