

HYPER TEXT MARKUP LANGUAGE

HTML

HOWS HTML WORK?

- ▶ HTML files are document files
 - ▶ Think about your index.html file we created last class.
 - ▶ It's just a document!
- ▶ Web browsers render these documents
 - ▶ What's the difference between web browsers?
Chrome, Internet Explorer/Edge, Firefox, Safari

HOWS HTML WORK?

- ▶ A user (or “client”) makes a request to a server
- ▶ The server “serves” up the requested document
- ▶ The web browser renders the document
 - ▶ ... and the server will “serve” files needed to render the document including stylesheets (CSS), javascript, images, fonts
- ▶ You view the content

HTML GIVES CONTENT STRUCTURE

- ▶ Headings
- ▶ Paragraphs
- ▶ Text
- ▶ Images
- ▶ Lists
- ▶ Inputs
- ▶ and more...

HTML CONTAINS DIRECTIONS

- ▶ Document Type
- ▶ Character Encoding
- ▶ Meta Data
 - ▶ Languages
 - ▶ Facebook/Twitter/Google
- ▶ References to assets like stylesheets (CSS) or javascript (JS)

COMMON TERMS

- ▶ Tags
- ▶ Elements
- ▶ Attributes
- ▶ Attribute Values

TAGS

- ▶ Tags most commonly occur in pairs of opening and closing tags.
- ▶ The content that falls between the opening and closing tags is the content of that element.
- ▶ Tags create elements

TAGS CREATE ELEMENTS

Element

```
<h1>Hello World!</h1>
```

Content of Tag

Opening Tag

Closing Tag

TAG CAVEATS

- ▶ Tags ***most commonly*** occur in pairs of opening and closing tags.
- ▶ Some tags are self closing.
 - ▶ Example: The break line or “BR” tag.

```
<br />
```

ELEMENTS

- ▶ Elements define structure and content of objects.
- ▶ Elements can live within elements

```
<body>  
  <h1>Hello World!</h1>  
</body>
```

- ▶ The `<h1>` element is inside the `<body>` element

ATTRIBUTES

- ▶ Properties that provide information about an element
- ▶ Attributes are defined within the opening tag.
- ▶ Closing tags never have attributes.
- ▶ Attributes include the name and the value

ATTRIBUTES PROVIDE INFO ABOUT ELEMENTS

ANCHOR ELEMENT, OR AN “A” TAG EXAMPLE

Attribute Value

```
<a href="http://ianshea.github.io/">My Webpage</a>
```

.....
Content of Tag

Attribute Name

Element

THE BASIC STRUCTURE FOR OUR PAGE

- ▶ Declare a document type, or **doctype**.
 - ▶ A doctype tells the browser what it's rendering
- ▶ Define a language attribute on our `<html>` tag
- ▶ Add in a proper `<head>` tag
 - ▶ Define information about our webpage including:
 - ▶ `<meta>` data about which character set to use
 - ▶ and a `<title>`

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="utf-8">
    <title>Hello World</title>
  </head>
  <body>
    <h1>Hello World</h1>
    <p>This is a web page.</p>
  </body>
</html>
```