## HYPER TEXT MARKUP LANGUAGE

# 

#### **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**

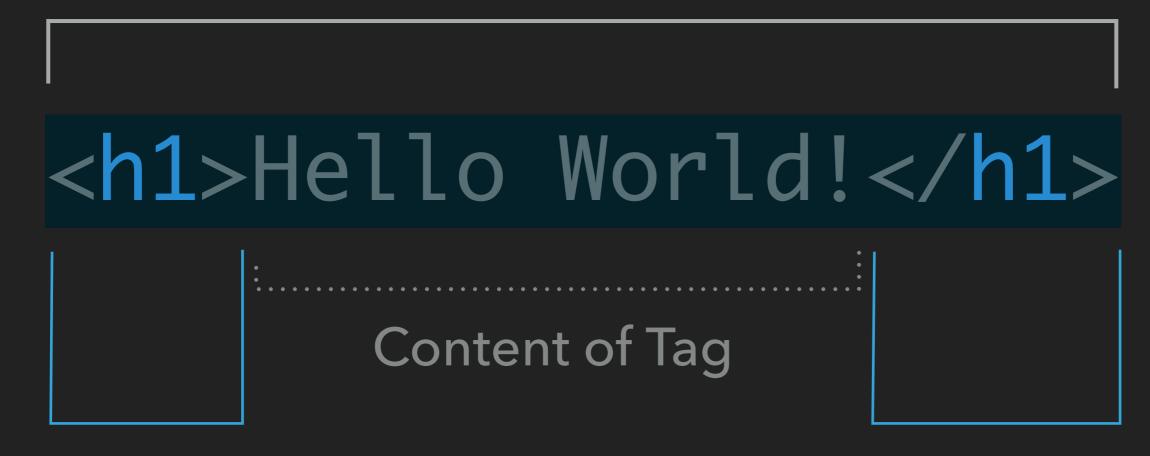
- Tags
- Elements
- Attributes
- Attribute Values

#### **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



**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.



#### **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>
    This is a web page.
 </body>
</html>
```