

HTML 101:

Language of the web

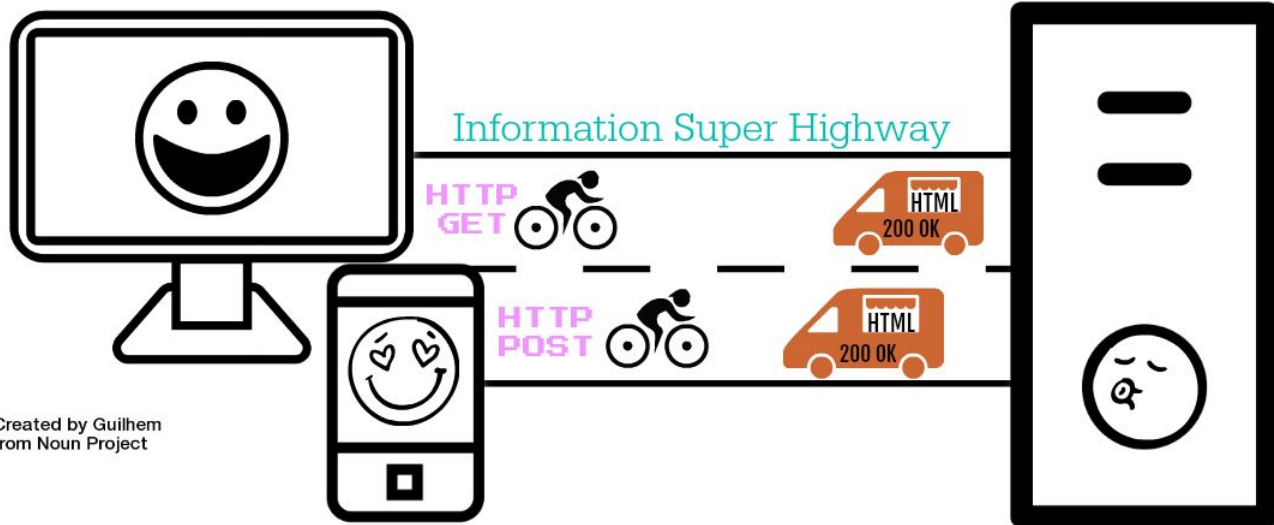
Hyper-Text Markup Language

What is HTML?

A Markup Language* spoken between two computers, shown to users through the lens of a browser.

Client

Server



Created by Guilhem
from Noun Project

Created by Kirsh
from Noun Project

Created by Creative Stall
from Noun Project

*Languages

- **Programming Language** - Ruby
- **Scripting Language** - JavaScript, Bash
- **Query Language** - SQL
- **Markup Language** - **HTML**
- **Style Language** - CSS

HTML is:

- **A Markup language that:**
 - separates content from presentation
 - Provides a set of instructions for a browser to interpret

HTML isn't:

- **Easy**
 - It requires some level of memorization & understanding of content's semantics
 - It requires understanding of browser specifications & quirks

Words to know:

- **Element**

- Structural, semantic, form, graphic, media

- **Tag**

- Self-closing

- **Attribute**

- Global, tag-specific

- **Content**

- **Display Types**

- Block
- Inline

One HTML Element:

```
<open_tag attr_key="attr_val">  
content</closing_tag>
```

Elements can be related

```
<div class="parent">  
  <h1>I'm a Child!</h1>  
  <p>I'm a Child, AND a  
sibling of H1! Lucky me.</p>  
</div>
```

DOM^{*family} Tree:

- Parent
- Child
- Sibling

Global Attributes

- Class
- Id
- Hidden
- Contenteditable
- Style
- Title
- Lang
- Dir
- data-*

MOST USED:

Class - a SET of like elements

ID - a UNIQUE element to a html page

```
<div class="parent">
```

Elements inherently hold default display properties

Block Elements

- Starts on a newline
- Take up the width of the window (or parent element)
 - **div**
 - **h1-h6**
 - **p**
 - **form**

Inline Elements

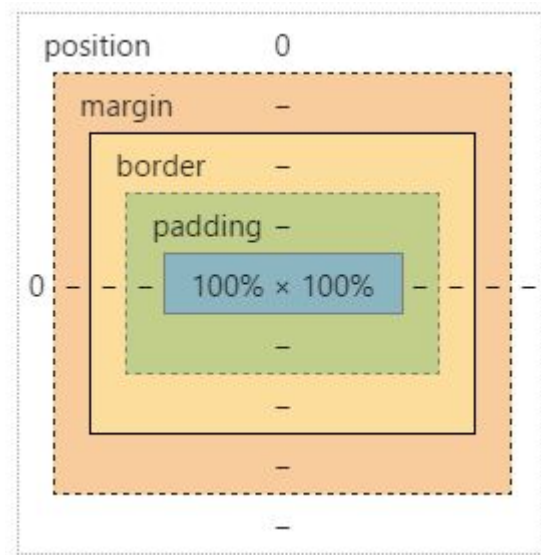
- Stays “IN-LINE”
- Only takes up space of its content
 - **span**
 - **a**
 - **img**

ALL ELEMENTS ARE BOXES

EVERY element holds the following properties by default:

- Padding
- Border
- Margin
- Position

The Box Model:



So, How do I
get started?

```
<header><header>
```

```
<nav></nav>
```

```
<section  
id="sidebar">  
...  
</section>
```

```
<main id="content">
```

```
<article>  
  <h1>1st Post title</h1>  
  <p>Lorem ipsum</p>  
</article>
```

```
<article>  
  <h1>1st Post title</h1>  
  <p>Lorem ipsum</p>  
</article>
```

```
</main>
```

```
<aside>  
...  
</aside>
```

```
<footer></footer>
```

```
<!DOCTYPE html>
<html>
  <head>
    <meta>
    <link>
  </head>
  <body>
    <p>Paragraph</p>
    <script></script>
  </body>
</html>
```

!DOCTYPE:

- Tells browser you're using HTML5

HTML:

- Wraps HTML code

HEAD:

- Prepwork for browser, source links

BODY:

- Code that will be shown to user

SCRIPT:

- Where JS Code or link to JS code goes

BASIC HTML STRUCTURE