

Hipster Hackers

Welcome

Welcome to learning

H.T.M.L

(how to meet ladies)

Hyper Text Markup Language

NOT a programming language

Programming: $c = a + b$

Markup: name: Jeremy
 age: 33

Other markup languages

- Markdown
- Textile
- YAML
- TOML
- ini
- rdoc
- XML
- Written Music

The buzzword



DOC TYPING

HTML 5

XHTML 1.0 Transitional

HTML 4.01 Transitional

HTML 4.01 Strict

XHTML 1.0 Strict

XHTML 1.0 Frameset

HTML 4.01 Frameset

XHTML 1.1



DOCTYPES

HTML5

<!DOCTYPE html>

HTML 4.01 Strict

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN" "<http://www.w3.org/TR/html4/strict.dtd>">

HTML 4.01 Transitional

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "<http://www.w3.org/TR/html4/loose.dtd>">

HTML 4.01 Frameset

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Frameset//EN" "<http://www.w3.org/TR/html4/frameset.dtd>">

XHTML 1.0 Strict

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "<http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd>">

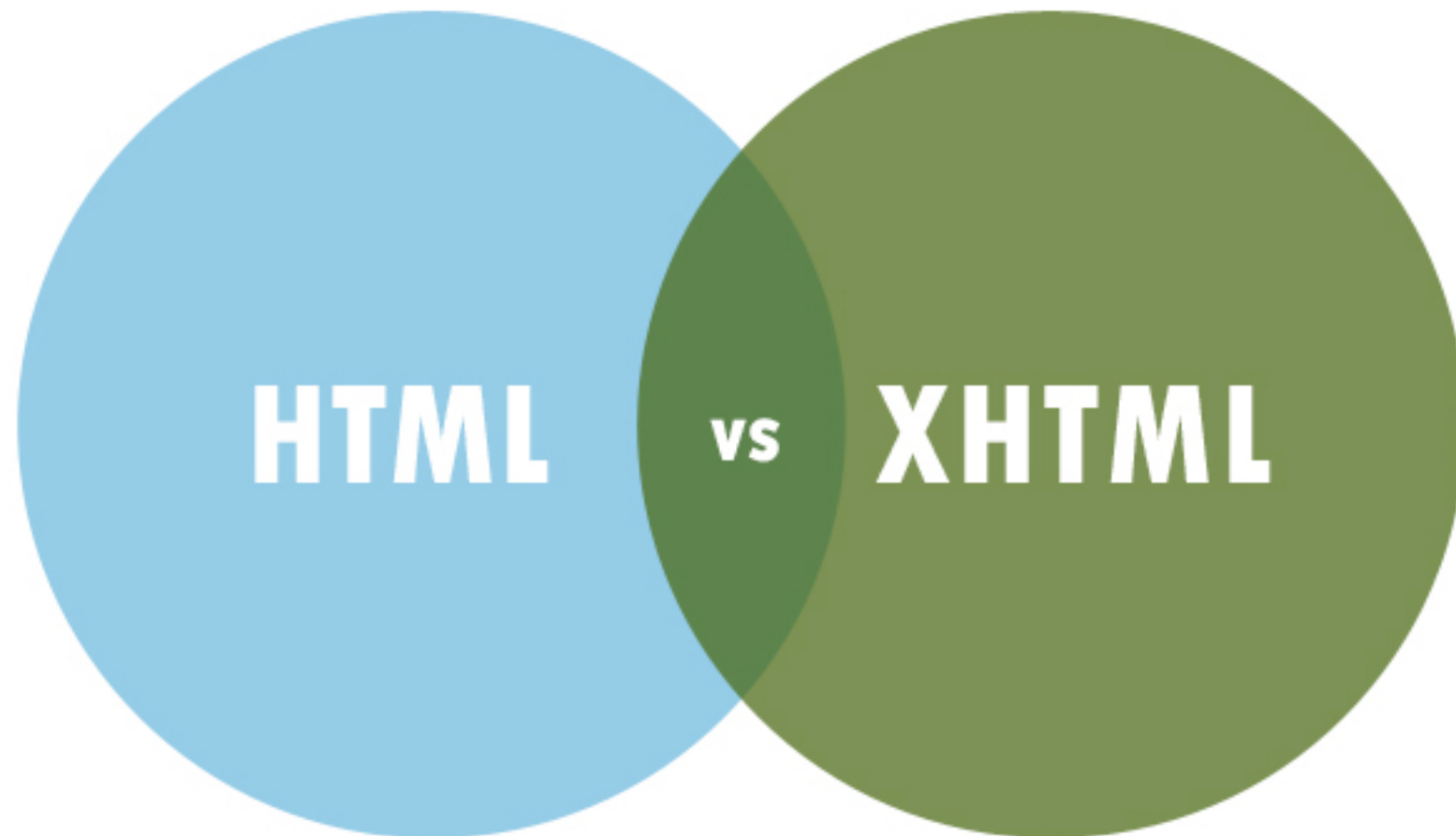
XHTML 1.0 Transitional

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "<http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd>">

XHTML 1.1

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.1//EN" "<http://www.w3.org/TR/xhtml11/DTD/xhtml11.dtd>">

What's the difference?



HTML4

- `
`
- `.html`, `.htm`
- Strict HTML tags
- Strict HTML attributes
- `<P></P>`

XHTML

(XML)

- `
`
- `.html`, `.htm`, `.xhtml`
- `<taco></taco>`
- `<taco with="guac" />`
- `<p></p>`

a mix of the two

HTML4

XHTML

HTML

- `
`
 - `.html,`
 - Strict HTML
 - Strict XHTML
 - `<P></P>`
- `html`
- `>`
- `=“guac” />`
- `p></p>`

Structure

```
<DOCTYPE html>
```

```
<html>
```

```
  <head>
```

```
    <title>A Cool Site</title>
```

```
  </head>
```

```
  <body>
```

```
    <h1 class="page-title">Welcome!</h1>
```

```
    <p>This is a webpage.</p>
```

```
  </body>
```

```
</html>
```

Structure (now with color!)

```
<DOCTYPE html>
<html>
  <head>
    <title>A Cool Site</title>
  </head>
  <body>
    <h1 class="page-title">Welcome!</h1>
    <p>This is a webpage.</p>
  </body>
</html>
```

syntax highlighting

Structure (now with color!)

```
<DOCTYPE html>
<html>
  <head>
    <title>A Cool Site</title>
  </head>
  <body>
    <h1 class="page-title">Welcome!</h1>
    <p>This is a webpage.</p>
  </body>
</html>
```

Doctype

html tag

closing title tag

html attribute

indentation for easy reading

syntax highlighting

TAGS TAGS AND MORE TAGS

a	data	h1-6	object	strong
abbr	datalist		ol	style
address	dd	i	optgroup	sub
area	del	iframe	option	summary
article	details	img	output	sup
aside	dfn	input		
audio	dialog	ins	p	table
	div		param	tbody
b	dl	kbd	picture	td
base	dt	keygen	pre	template
bdi			progress	textarea
bdo	element	label		tfoot
blockquote	em	legend	q	th
body	embed	li		thead
br		link	rp	title
button	fieldset		rt	tr
	figcaption	main	ruby	track
canvas	figure	map		
caption	font	mark	s	u
cite	footer	menu	samp	ul
code	form	menuitem	script	
col		meta	section	var
colgroup	head	meter	select	video
command	header		shadow	
content	hgroup	nav	small	wbr
	hr	noframes	source	
	html	noscript	span	



ZONIKS!

way too many tags

The Important ones

a

abbr
address
area
article
aside

audio

b
base
bdi
bdo

blockquote

body

br

button

canvas

caption
cite
code
col
colgroup
command
content

data
datalist
dd
del
details
dfn
dialog
div
dl
dt

element
em
embed

fieldset
figcaption
figure
font

footer

form

head

header

hgroup

hr

html

h1-6

i

iframe

img

input

ins

kbd

keygen

label

legend

li

link

main

map

mark

menu

menuitem

meta

meter

nav

noframes

noscript

object

ol

optgroup

option

output

p

param

picture

pre

progress

q

rp

rt

ruby

s

samp

script

section

select

shadow

small

source

span

strong

style

sub

summary

sup

table

tbody

td

template

textarea

tfoot

th

thead

title

tr

track

u

ul

var

video

wbr

a “anchor”

inline element

```
<a name=“top”>Top of page</a>
```

```
<a name=“some-blog-post”>Some Blog Post</a>
```

```
<a href=“about.html”>About Page</a>
```

audio

inline element

```
<audio controls>
```

```
<source src="tacos.mp3" type="audio/mpeg" />
```

```
</audio>
```

blockquote

block element

```
<blockquote cite="http://wikipedia.com">
```

He said, she said

```
</blockquote>
```

body

single block element

```
<body>
```

insert website here

```
</body>
```

br “line break”

inline element

content here

Self closing tag



other content here

button

inline-block element

```
<button>Click Here</button>
```

canvas

inline element

<canvas>

Your browser doesn't support canvas

</canvas>

div “divider”

block element

`<div>`

the most over-used element on the web!

`</div>`

em “emphasis”

inline element

this text will look italic

footer

block element

<footer>

somewhere at the bottom

</footer>

form

block element

```
<form action="/search" method="get">
```

```
<input type="text" name="q" placeholder="Search"/>
```

```
<button type="submit">Go</button>
```

```
</form>
```

head

single block element

```
<head>
```

```
<title>My cool site</title>
```

```
</head>
```

header

block element

<header>

somewhere at the top

</header>

hr “horizontal rule”

block element

<hr />



another self-closing tag

html

parent element

```
<html lang="en">
```

```
<head>
```

```
<title>My cool website</title>
```

```
</head>
```

```
<body>
```

```
insert webpage here
```

```
</body>
```

```
</html>
```

h1-6 “Headings”

block elements

<h1>32 pixels</h1>

<h2>24 pixels</h2>

<h3>18.5 pixels</h3>

<h4>16px</h4>

<h5>13.2px</h5>

<h6>10.5px</h6>

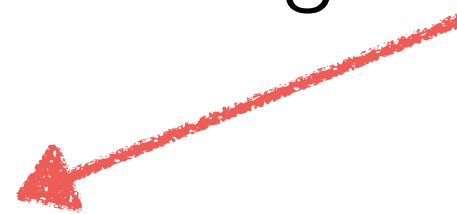
i “italic” / “icon”

inline element

`<i>This is italic text</i>`

`<i class=“fa fa-user”></i>`

Using font-awesome for icon



iframe

inline element

```
<iframe src="http://someothersite.com"></iframe>
```

img “Image”

inline element

```

```

input

inline element

```
<input type="password" name="secret" />
```

```
<input type="text" name="first_name" />
```

```
<input type="email" name="email_addy" />
```

```
<input type="radio" name="hungry" value="yes" /><input  
type="radio" name="hungry" value="no" />
```

```
<input type="checkbox" name="foods[]" value="tacos" />
```

```
<input type="checkbox" name="foods[]" value="burgers" />
```

```
<input type="submit" value="Submit Order" />
```

label

inline element

```
<label for="email">Email: *</label>
```

```
<input type="email" name="email" id="email" />
```

li “List Item”

list-item element

first bullet point

next bullet point

link

no display

```
<link rel="stylesheet" href="/master.css" media="screen"  
charset="utf-8" />
```

meta

no display

```
<meta charset="utf-8" />
```

```
<meta name="keywords" content="learning,  
programming" />
```


nav “Navigation”

block element

```
<nav>
```

```
<a href="#">Home</a>
```

```
<a href="#">About</a>
```

```
</nav>
```

ol “ordered list”

block element

```
<ol>
```

```
<li>Item 1.</li>
```

```
<li>Item 2.</li>
```

```
</ol>
```

option

block element

```
<select>
```

```
<option>Tacos</option>
```

```
<option>Burgers</option>
```

```
</select>
```

p “paragraph”

block element

<p>Here is a huge body of text that will talk about absolutely nothing as a giant run-on sentence that really makes no sense, but looks like it fills in a lot of space</p>

script

no display

```
<script src="fancy-stuff.js"></script>
```

```
<script type="text/javascript">
```

```
    window.onload = function() {};
```

```
</script>
```

section

block element

<section>

Here is some section of the page

</section>

select

inline-block element

```
<select>
```

```
<option>Tacos</option>
```

```
<option>Burgers</option>
```

```
</select>
```

small

inline element

<small>some really small text</small>

source

no display

<audio controls>

<source src="tacos.mp3" type="audio/mpeg" />

</audio>

span

inline element

```
<span>My Name</span>
```

strong

inline element

My Name

table

table element

```
<table cellpadding="0" cellspacing="0">
```

```
  <thead>
```

```
    <tr>
```

```
      <th>ID</th>
```

```
    </tr>
```

```
  </thead>
```

```
  <tbody>
```

```
    <tr>
```

```
      <td>1</td>
```

```
    </tr>
```

```
  </tbody>
```

```
</table>
```

tbody “table body”

table-row-group element

```
<table cellpadding="0" cellspacing="0">
```

```
<thead>
```

```
<tr>
```

```
<th>ID</th>
```

```
</tr>
```

```
</thead>
```

```
<tbody>
```

```
<tr>
```

```
<td>1</td>
```

```
</tr>
```

```
</tbody>
```

```
</table>
```

td “table data”

table-cell element

```
<table cellpadding="0" cellspacing="0">
```

```
<thead>
```

```
<tr>
```

```
<th>ID</th>
```

```
</tr>
```

```
</thead>
```

```
<tbody>
```

```
<tr>
```

```
<td>1</td>
```

```
</tr>
```

```
</tbody>
```

```
</table>
```

textarea

inline element

```
<textarea rows="8" cols="40"></textarea>
```

thead “table head”

table-row-group element

```
<table cellpadding="0" cellspacing="0">
```

```
<thead>
```

```
<tr>
```

```
<th>ID</th>
```

```
</tr>
```

```
</thead>
```

```
<tbody>
```

```
<tr>
```

```
<td>1</td>
```

```
</tr>
```

```
</tbody>
```

```
</table>
```


title

no display

<head>

<title>My Cool Site</title>

</head>

tr “table row”

table-row element

```
<table cellpadding="0" cellspacing="0">
```

```
<thead>
```

```
<tr>
```

```
<th>ID</th>
```

```
</tr>
```

```
</thead>
```

```
<tbody>
```

```
<tr>
```

```
<td>1</td>
```

```
</tr>
```

```
</tbody>
```

```
</table>
```

ul “Unordered List”

block element

```
<ul>
```

```
<li>Bullet 1</li>
```

```
<li>Bullet 2</li>
```

```
</ul>
```

video

inline element

```
<video src="cartoons.mp4" autoplay></video>
```

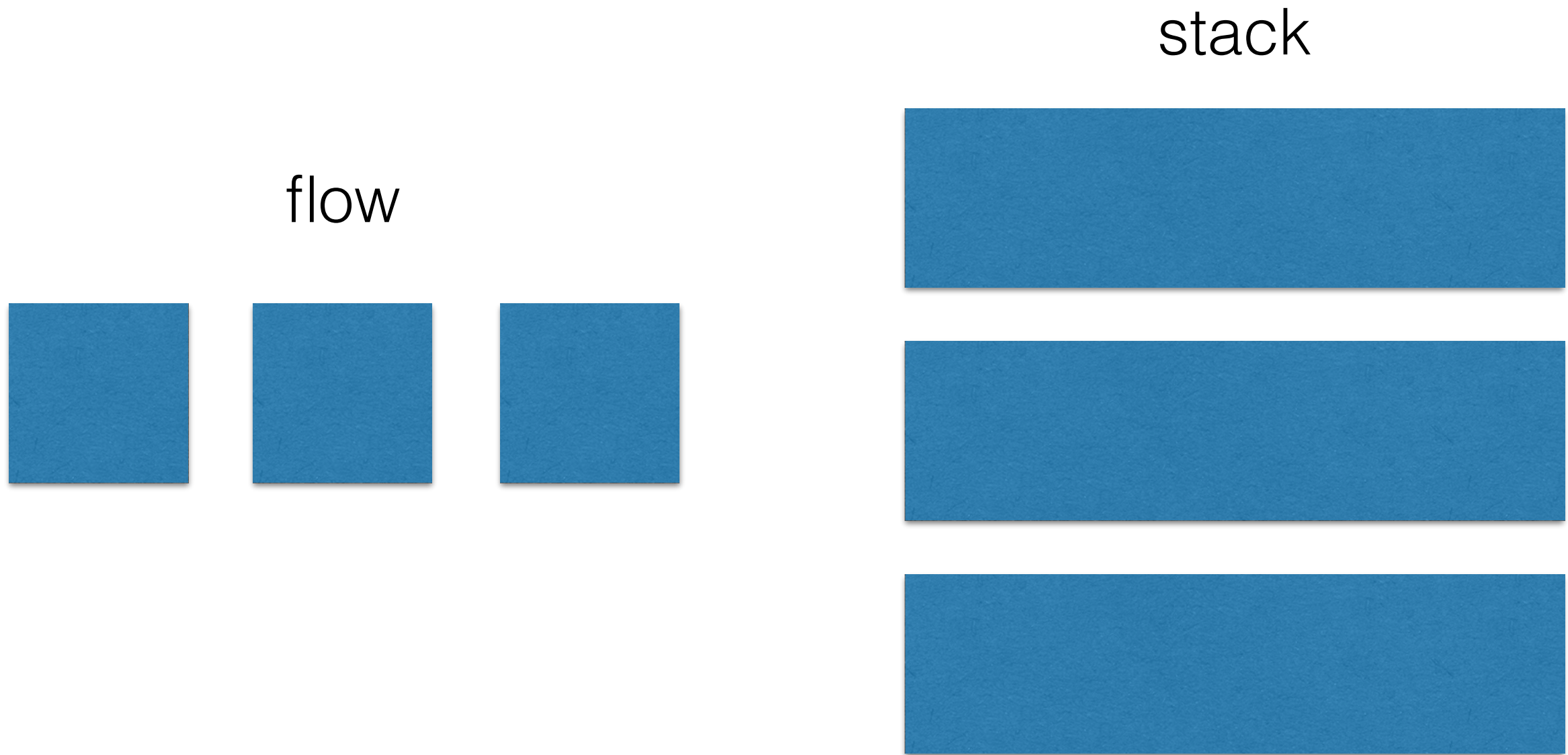
comments

notes for you

<!-- I can put whatever I want here because this is
just a note to myself in the HTML code -->

take a breather

inline vs block



attributes

key / value pairs

key="some_value"

type="text"

src="logo.jpg"

id="wrap"

class="col-sm-6 col-sm-offset-3"

style="color:red;"

data-meat="steak"

HTML5 inferred

key (key="key")

controls

autoplay

required

selected

ng-view


```
<!DOCTYPE html>
<html>
  <head>
    <title>My Cool Site</title>
    <meta charset="utf-8" />
    <link rel="stylesheet" href="styles.css" type="text/css" />
  </head>
  <body>
    <div id="wrap">
      <h1>Welcome!</h1>
      <p>My first website is ugly!</p>
      <a href="about.html">About Me</a>
      <br /> <!-- my nav area -->
      <a href="index.html">Home page</a>
    </div>
    <script src="funky.js"></script>
  </body>
</html>
```

Quiz Time

What's this for?

```
<!DOCTYPE html>
```

```
<html>
```

```
  <head>
```

```
    <title>My Cool Site</title>
```

```
    <meta charset="utf-8" />
```

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

```
  </head>
```

```
  <body>
```

```
    <div id="wrap">
```

```
      <h1>Welcome!</h1>
```

```
      <p>My first website is ugly!</p>
```

```
      <a href="about.html">About Me</a>
```

```
      <br /> <!-- my nav area -->
```

```
      <a href="index.html">Home page</a>
```

```
    </div>
```

```
    <script src="funky.js"></script>
```

```
  </body>
```

```
</html>
```

What are these called?

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<title>My Cool Site</title>
```

```
<meta charset="utf-8" />
```

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



```
</head>
```

```
<body>
```

```
<div id="wrap">
```

```
<h1>Welcome!</h1>
```

```
<p>My first website is ugly!</p>
```

```
<a href="about.html">About Me</a>
```

```
<br /> <!-- my nav area -->
```

```
<a href="index.html">Home page</a>
```

```
</div>
```

```
<script src="funky.js"></script>
```

```
</body>
```

```
</html>
```

What's this thing?

```
<!DOCTYPE html>
```

```
<html>
```

```
  <head>
```

```
    <title>My Cool Site</title>
```

```
    <meta charset="utf-8" />
```

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

```
  </head>
```

```
  <body>
```

```
    <div id="wrap">
```

```
      <h1>Welcome!</h1>
```

```
      <p>My first website is ugly!</p>
```

```
      <a href="about.html">About Me</a>
```

```
      <br /> <!-- my nav area -->
```

```
      <a href="index.html">Home page</a>
```

```
    </div>
```

```
    <script src="funky.js"></script>
```

```
  </body>
```

```
</html>
```

What's this tag do?

```
<!DOCTYPE html>
```

```
<html>
```

```
  <head>
```

```
    <title>My Cool Site</title>
```

```
    <meta charset="utf-8" />
```

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

```
  </head>
```

```
  <body>
```

```
    <div id="wrap">
```

```
      <h1>Welcome!</h1>
```

```
      <p>My first website is ugly!</p>
```

```
      <a href="about.html">About Me</a>
```

```
      <br /> <!-- my nav area -->
```

```
      <a href="index.html">Home page</a>
```

```
    </div>
```

```
    <script src="funky.js"></script>
```

```
  </body>
```

```
</html>
```

Why's there no closing tag?

```
<!DOCTYPE html>
```

```
<html>
```

```
  <head>
```

```
    <title>My Cool Site</title>
```

```
    <meta charset="utf-8" />
```

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

```
  </head>
```

```
  <body>
```

```
    <div id="wrap">
```

```
      <h1>Welcome!</h1>
```

```
      <p>My first website is ugly!</p>
```

```
      <a href="about.html">About Me</a>
```

```
      <br /> <!-- my nav area -->
```

```
      <a href="index.html">Home page</a>
```

```
    </div>
```

```
    <script src="funky.js"></script>
```

```
  </body>
```

```
</html>
```



Questions?