



sheCodesNow

Intro to HTML/CSS

Instructor: Natalia Ramirez

GitHub handle: @natramirez

Email: natalia.ramirez.tech@gmail.com

Originally created by: Alejandra Quetzalli and
Sooz Richman



Preview

What we're learning today:

- What it takes to get into tech
- Front-end vs back-end
- What HTML is
- What CSS is
- Live HTML and CSS examples on codepen.io
- Building a web page!!



3 questions to determine if you can be in Tech...



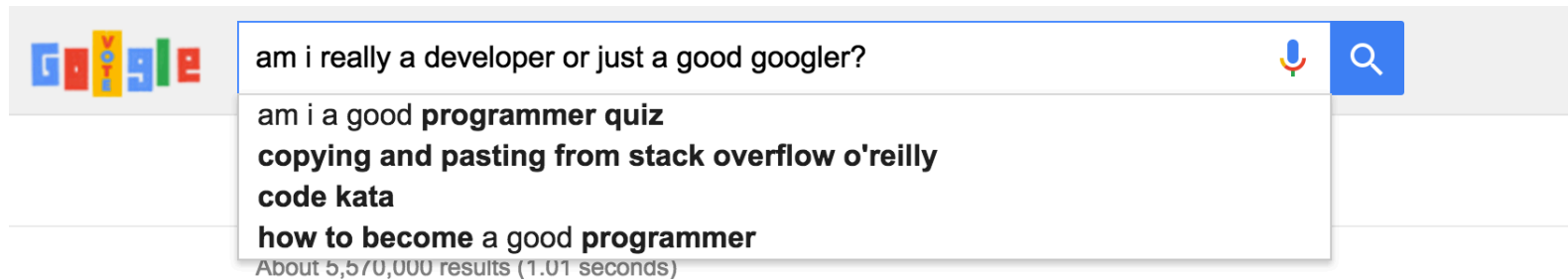
1) Do you like learning new things?



2) Do you like solving problems?



3) Do you know how to Google?



Showing results for [am i really a developer or just a good **google**?](#)

Search instead for [am i really a developer or just a good googler?](#)

[Am I really a developer or just a good googler? - Scott Hanselman](#)

www.hanselman.com/blog/AmIReallyADeveloperOrJustAGoodGoogler.aspx ▼

Aug 23, 2013 - ... come that is that I **am really a developer or just a good googler**. **Google**, StackOverflow, Hanselman.com etc. are all **just** tools we use in ...

[Am I really a developer or just a good googler? : programming - Reddit](#)

https://www.reddit.com/r/.../am_i_really_a_developer_or_just_a_good_googler/ ▼

Apr 2, 2014 - It's **just** not **good** at recalling high entropy sequences accurately. Like I can part of it. Implementation assistance via **Google** isn't a bad thing.

[Am I really a developer or just a good Googler? | Hacker News](#)

<https://news.ycombinator.com/item?id=7516914> ▼

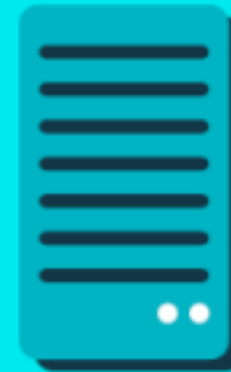
Apr 3, 2014 - It's great if you can do some stuff without using **google**, but memorizing reference material doesn't mean you're a better **developer**.



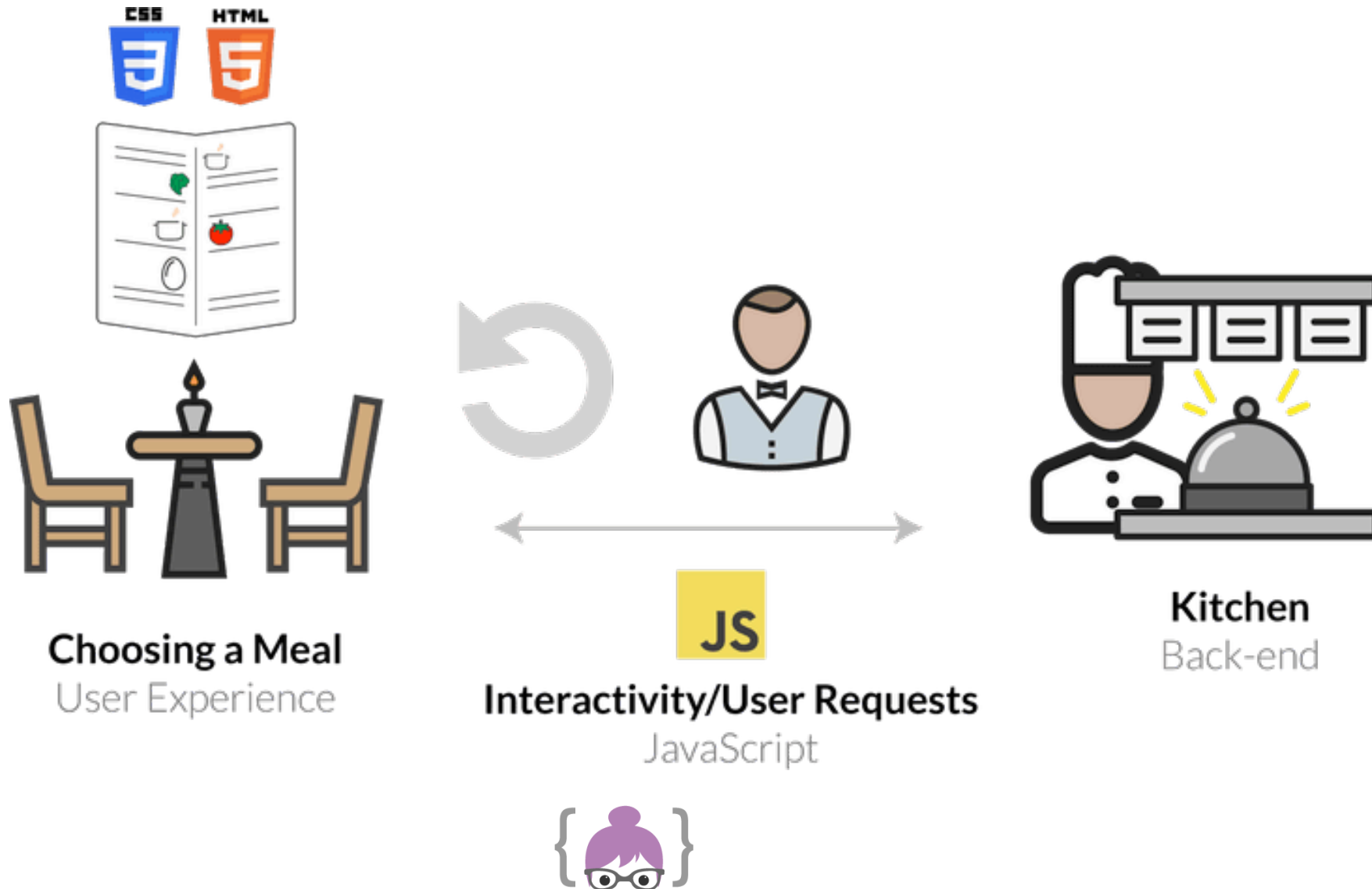
FRONT-END



BACK-END



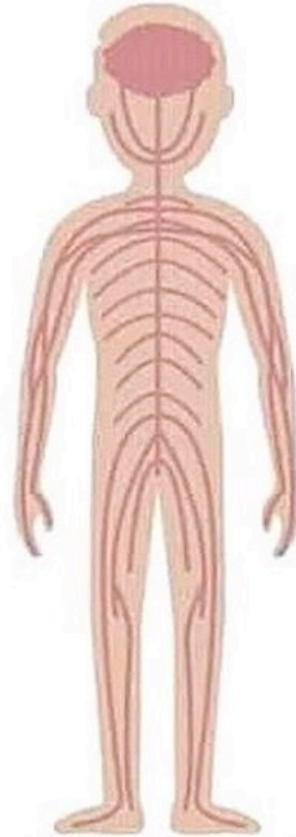
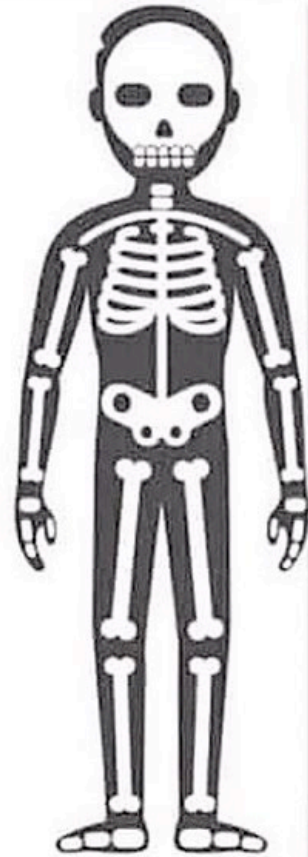
Front-end vs. Back-end



HTML

JS

CSS



What is HTML?

- Provides the content on a webpage.
- HyperText Markup Language:
 - **HyperText** — you move around on the web using [hyperlinks](#)
hyper = not linear — you can go to any place on the Internet by clicking on links — there is no specific order you must follow.
 - **Markup** — HTML tags “markup” the text inside them. (*italicized* or **bolded** text, for example)
 - **Language** — HTML has code-words and syntax just like any other language.

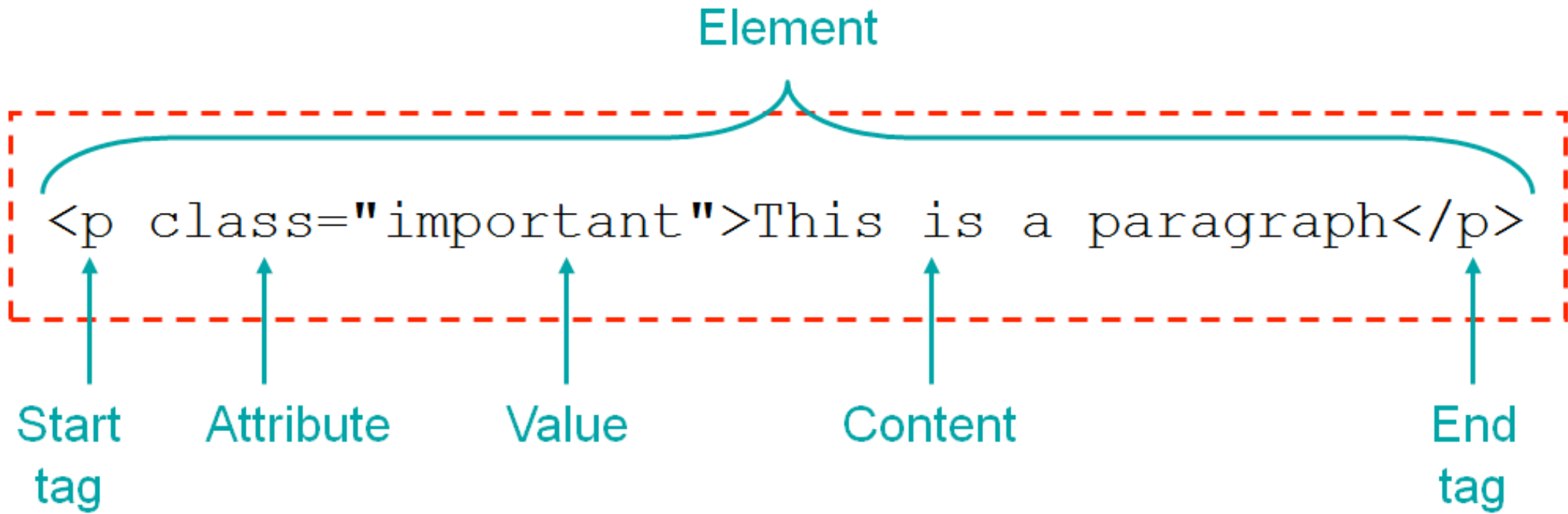


How does HTML work?

- HTML uses tags to tell browsers how to show text
- HTML tags are what separate normal text from HTML code. The text is **saved as an html file**, and can be **viewed through a browser** like *Chrome, Firefox, etc...*
- Different tags perform different functions:
 - ` bolds text `
 - `<h1>`Signifies that this is a header 1 (title) of a post on the page`</h1>`
 - `<p>` This tag is used to signify the start of a paragraph.`</p>`



Anatomy of an HTML Element



Structure of an HTML file

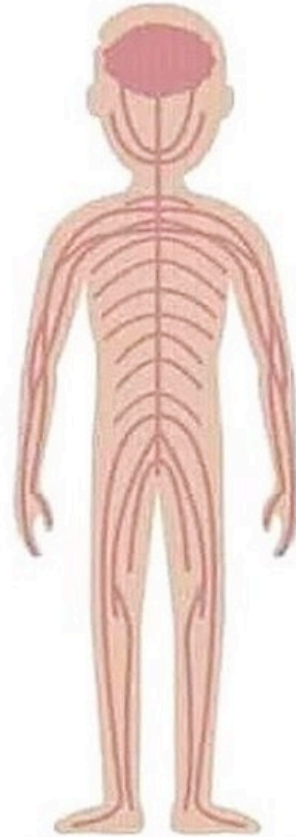
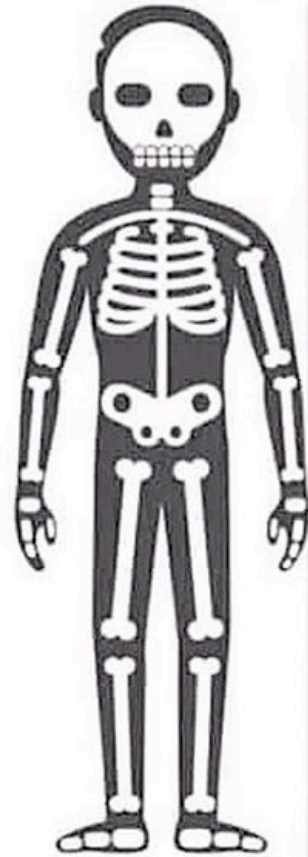
1. Document type declaration
2. HTML root element
3. Head element: descriptive info such as title, style sheets, scripts, other “meta” info
4. Info about the document itself
5. Title
6. Body with page content



HTML

JS

CSS



What is CSS?

- Provides the look and layout of the webpage.
- Cascading Style Sheets.
- **CSS is a style language that defines the layout and look of HTML documents.** It changes things such as the font, colors, spacing, height, background images, etc...
- It works in combination with HTML tags to make web pages “pretty”, readable, and so much more!

CSS

```
h1 {  
  font-size: 24px;  
  text-align: center;  
  margin-top: 25px;  
  color: purple;  
}
```

HTML

```
<h1> What is CSS?</  
h1>
```

RESULT IN BROWSER

What is CSS?



CSS ***syntax*** (another word for grammar or rules of how words work in the language) is comprised of a few fundamental pieces; **rules**, **selectors**, **declarations**, **properties** and **values**.

```
h1 {  
  font-size: 12px;  
  width: 200px;  
  margin-top: 25px;  
  color: purple;  
}
```

rule

```
h1 {  
  font-size: 12px;  
  width: 200px;  
  margin-top: 25px;  
  color: purple;  
}
```

selector

declaration

```
h1 {  
  font-size: 12px;  
  width: 200px;  
  margin-top: 25px;  
  color: purple;  
}
```

property

value



See this website has the same HTML, but 9 different CSS files applied!

← → ↻ www.mezzoblue.com/zengarden/alldesigns/


UX Resources NG Queue NG Backlog Proteus Editor Stash HG Repo CRs Bamboo

css Zen Garden

Design List 1/19


This page is an archived list of Zen Garden designs added to date. You can also see the ones that [didn't make the cut](#). Total designs listed: 218

1 2 3 4 5 6 7 8 9 10 11 »




221

Mid Century Modern
ANDREW LOHMAN, United States




220

Garments
DAN MALL, United States




219

Steel
STEFFEN KNOELLER, Germany




218

Apothecary
TRENT WALTON, United States




217

Handcrafted
ELLIOT JAY STOCKS, United Kingdom




216

Fountain Kiss
JEREMY CARLSON, United States




215

A Robot Named Jimmy
MELTMEDIA, United States



214

Verde Moderna
DAVE SHEA, Canada




213

Under the Sea!
ERIC STOLTZ, United States



**Questions so
far?**

Preview: What does it look like when it works?

 Position w/ Display: Inline and Block Elements

Fork

Settings

Change View

Log In

Sign Up

HTML

```
1 <section>
2   <code><br>display:<br> inline-block;</code>
3 </section><section>
4   <code><br> display: <br> inline-block;</code>
5 </section>
6 <section>
7   <code><br> display: <br> inline-block;</code>
8 </section>
9 <footer>
10  <code>http://learn.shayhowe.com/html-css/positioning-content/</code>
11 </footer>
12
13
```

CSS

```
1 code {
2   background: purple;
3   border-radius: 6px;
4   color: #fff;
5   display: block;
6   font: 24px "Source Code Pro", Inconsolata, "Lucida Console",
   Terminal, "Courier New", Courier;
7   padding: 25px;
8   text-align: center;
9 }
10 footer {
11   margin: 10px 25px;
12 }
13 footer code {
14   font-size: 12px;
```

display:
inline-block;

display:
inline-block;

display:
inline-block;

http://learn.shayhowe.com/html-css/positioning-content/

Console

Assets

Comments

%

Share

Export

Embed



CSS Box Model

In HTML, each element is like a rectangular box.

In CSS, each of these rectangular boxes is represented using the *box model*. This model describes the content of the space taken by an element.

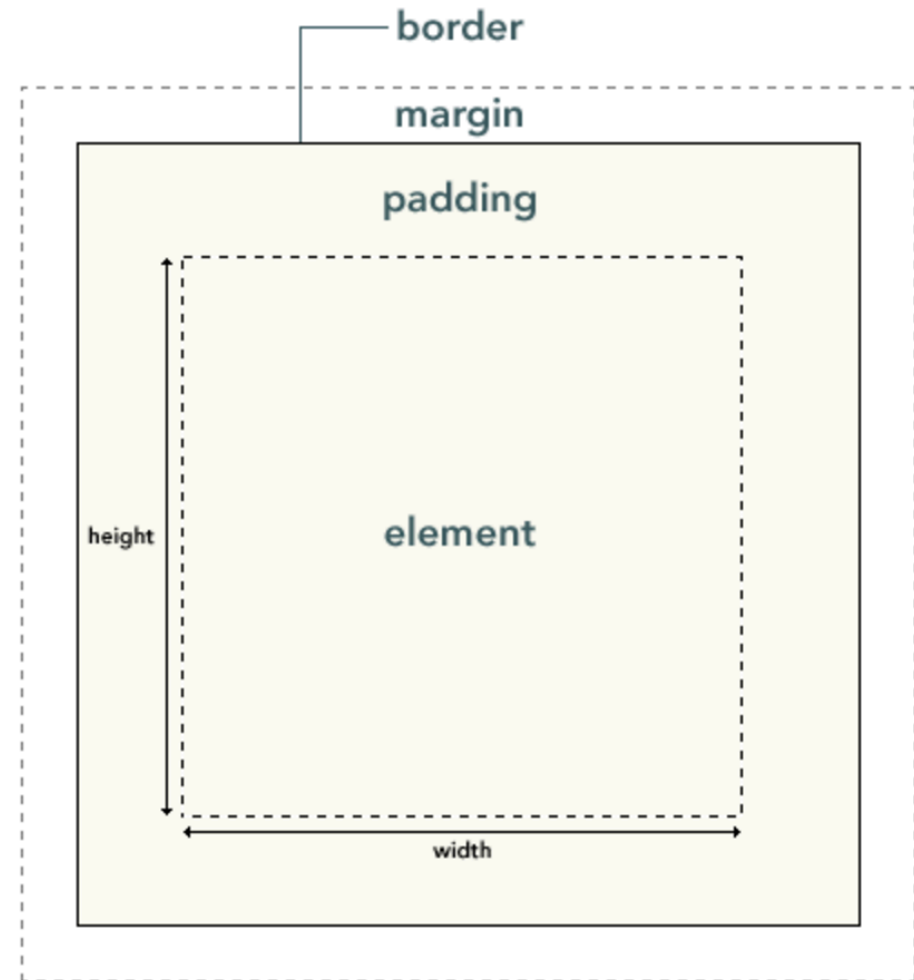
Each box has four parts:

- ☐ border
- ☐ margin
- ☐ padding
- ☐ content (element itself)

And the first three all have four parts*:

- ☐ Top
- ☐ Right
- ☐ Bottom
- ☐ Left

*always in this order



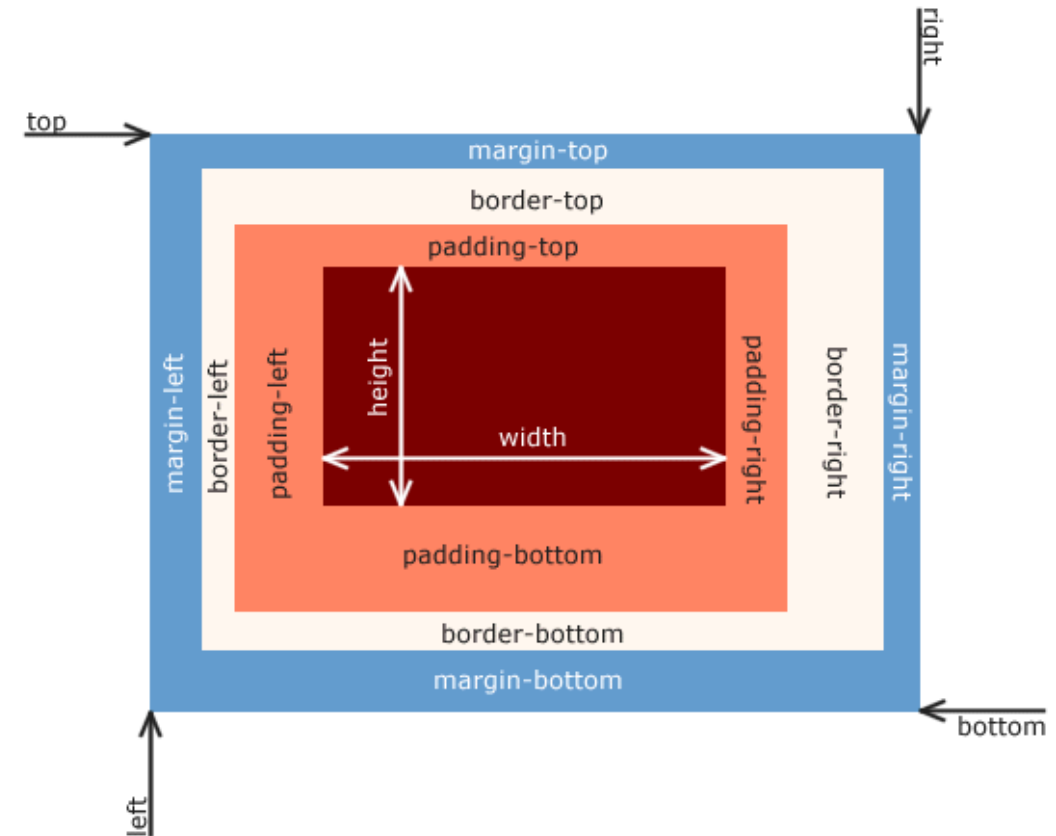
➤ The size of each box is calculated like this...

Width = width + padding-left + padding-right + border-left + border-right

Height = height + padding-top + padding-bottom + border-top + border-bottom

➤ **Margin** is unique in that it **doesn't affect the size of the box itself** per se, but it affects *other* content interacting with the box.

➤ With CSS, you can **adjust the size** of those boxes and **position** them.



Block and Inline HTML Elements

In HTML, elements are by default "*block*" elements or "*inline*" elements.

➤ A "*block*" element takes up an entire line, and thus each one **lies on top of each other** like this:

```
<div> </div>
```

```
<div> </div>
```

```
<div> </div>
```


➤ An "*inline*" element can **lie next to each other** in the same line like this:

```
<span></span> <span></span> <span></span>
```

Let's look at a code example of how "inline" and "block" elements behave differently [here](#)...



Lets look at this again

 Position w/ Display: Inline and Block Elements

Fork

Settings

Change View

Log In

Sign Up

HTML

```
1 <section>
2   <code><br>display:<br> inline-block;</code>
3 </section><section>
4   <code><br> display: <br> inline-block;</code>
5 </section>
6 <section>
7   <code><br> display: <br> inline-block;</code>
8 </section>
9 <footer>
10  <code>http://learn.shayhowe.com/html-css/positioning-content/</code>
11 </footer>
12
13
```

CSS

```
1 code {
2   background: purple;
3   border-radius: 6px;
4   color: #fff;
5   display: block;
6   font: 24px "Source Code Pro", Inconsolata, "Lucida Console",
   Terminal, "Courier New", Courier;
7   padding: 25px;
8   text-align: center;
9 }
10 footer {
11   margin: 10px 25px;
12 }
13 footer code {
14   font-size: 12px;
```

display:
inline-block;

display:
inline-block;

display:
inline-block;

http://learn.shayhowe.com/html-css/positioning-content/

Console

Assets

Comments

%

Share

Export

Embed



Position Content with CSS


One of the best things about CSS is that it gives us the ability to position content and elements on a page.

Here are a few ways you can position elements:

- **Floats:** This allows you to position an element to the *left* or *right* of its container (parent) element. Example [here](#)...
- **Absolute positioning:** This is a very powerful type of positioning that allows you to literally place any element exactly where you want it. You use the positioning coordinates of **top**, **left**, **bottom**, and **right** to set the location.
Example [here](#)...
- **Flexbox:** (This is more advanced, but you can read more about that [here](#)...)



Floats

 Position w/ Floats
A PEN BY [Alejandra Quetzalli Olvera-Novack](#) PRO

[Fork](#) [Settings](#) [Change View](#) [Log In](#) [Sign Up](#)

HTML

```
1 <header>
2   <code>Positioning with Floats:</code>
3 </header>
4
5 <section>
6   <code>float: left;</code>
7 </section>
8 <section>
9   <code>float: left;</code>
10 </section>
11
12 <footer>
13   <code>http://learn.shayhowe.com/html-css/positioning-content/</code>
14 </footer>
15
```

CSS

```
1 code {
2   background: skyblue;
3   border-radius: 6px;
4   color: #fff;
5   display: block;
6   font: 24px "Source Code Pro", Inconsolata, "Lucida Console",
7     Terminal, "Courier New", Courier;
8   padding: 25px 15px;
9   text-align: center;
10 }
11 header,
12 section,
13 aside,
14 footer {
15   margin: 1.5%;
```

float: left;

float: left;


<http://learn.shayhowe.com/html-css/positioning-content/>

Console Assets Comments %

[Share](#) [Export](#) [Embed](#)



Absolute positioning

 Absolute Positioning
A PEN BY **Alejandra Quetzalli Olvera-Novack** PRO

[Fork](#) [Settings](#) [Change View](#) [Log In](#) [Sign Up](#)

HTML

```
1 <body>
2 <div class="box">
3   <p>HI!</p>
4 </div>
5 </body>
6
7
```

CSS

```
11
12 width: 100px;
13 height: 100px;
14 position: absolute;
15 top: 200px;
16 left: 420px;
17 }
18
19
20
```

JS

HI!

Console

Assets

Comments

🔗

Share

Export

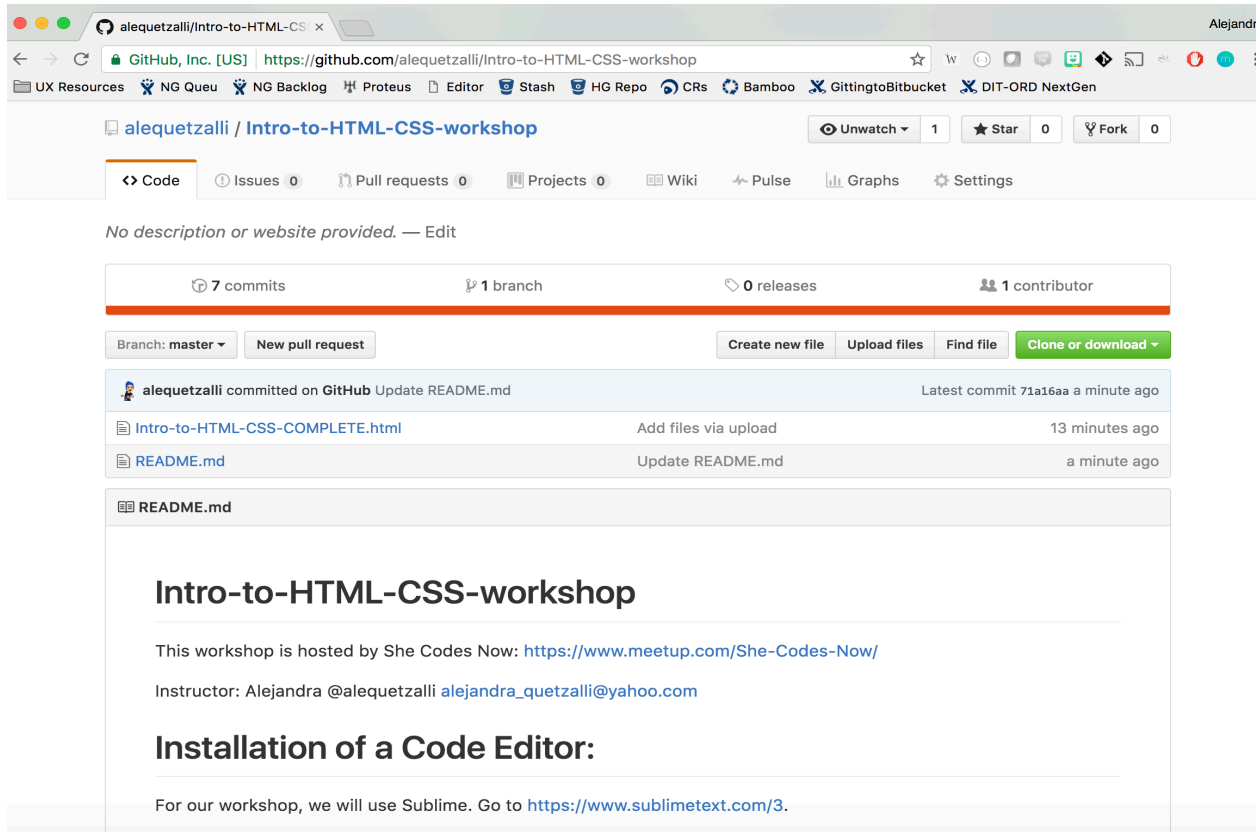
Embed



**Questions so
far?**

Now let's build a webpage!

Go to our GitHub repo to get started: <https://github.com/alequetzalli/Intro-to-HTML-CSS-workshop>



The screenshot shows a web browser displaying the GitHub repository page for 'alequetzalli/Intro-to-HTML-CSS-workshop'. The page includes the repository name, a navigation bar with links to Code, Issues, Pull requests, Projects, Wiki, Pulse, Graphs, and Settings. Below the navigation bar, it states 'No description or website provided. — Edit'. The repository statistics show 7 commits, 1 branch, 0 releases, and 1 contributor. A table lists recent commits, including 'alequetzalli committed on GitHub Update README.md' and 'Intro-to-HTML-CSS-COMPLETE.html'. The README.md file is expanded, showing the title 'Intro-to-HTML-CSS-workshop', the text 'This workshop is hosted by She Codes Now: https://www.meetup.com/She-Codes-Now/', the instructor's name 'Alejandra @alequetzalli alejandra_quetzalli@yahoo.com', and the section 'Installation of a Code Editor:' with the text 'For our workshop, we will use Sublime. Go to https://www.sublimetext.com/3.'

*GitHub is a code hosting platform
for version control and
collaboration.*

Learn more [here...](#)



More HTML/CSS learning resources:

<http://learn.shayhowe.com/html-css/>

<https://css-tricks.com/the-css-box-model/>

<https://www.sitepoint.com/web-foundations/css/>

<https://www.khanacademy.org/computing/computer-programming>

<http://www.howtogeek.com/180167/htg-explains-what-is-github-and-what-do-geeks-use-it-for/>

<https://www.codecademy.com/>

<https://teamtreehouse.com/>

[HTML and CSS: Design and Build Websites](#) book by Jon Duckett

