

how to website

html + css + js

word of warning

html + css kinda suck

an email I recently received*

subject: making website pls halp

i am #1 [CS rap](#) fan but i cannot website.
pls make 4 me.

- k. west

p.s. is it too late to comp

*this totally happened i swear

how does website happen?

- browser understands 3 languages:
 - **html:** general *structure*
 - **css:** modify *appearance*
 - **javascript:** add *functionality*

overview of html

- hierarchical structure
- lots of tags, have semantic meanings
 - have attributes
- should make sense **independent** of appearance

overview of css

- structure: `<css-selector> {property: value; ...}`
- select with tag name, id, and/or class
- does everything appearance-related

overview of javascript

- actual programming language
- you can do whatever the fuck you want with it
- **use sparingly**

lets help mr. west!

writing good html

- use semantically correct tags
- should make hierarchical sense
- don't hack for appearance
 - avoid tags like `
`, ``, ``, etc.

```
<html> <!-- html (put things here pls) -->
```

```
</html> <!-- hello, closing tag! you're my best friend :) -->
```

<html>

<head> <!-- metadata here -->

</head>

<body> <!-- actual stuff to display -->

</body>

</html> <!-- such a nice hug, html tag :) -->

```
<html>
  <head> <!-- adding some metadata -->
    <title>My Nerdcore Rap Site</title>
    <link rel="stylesheet" href="css/styles.css">
    <script type="text/javascript" src="js/script.js"></script>
  </head>
  <body>

  </body>
</html>
```

```
<html>
  <head>
    <title>My Nerdcore Rap Site</title>
    <link rel="stylesheet" href="css/styles.css">
    <script type="text/javascript" src="js/script.js"></script>
  </head>
  <body>
    <div class="container">

    </div>
  </body>
</html>
```

```
<html>
  <head>
    <title>My Nerdcore Rap Site</title>
    <link rel="stylesheet" href="css/styles.css">
    <script type="text/javascript" src="js/script.js"></script>
  </head>
  <body>
    <div class="container">
      <h1>Nerdcore rap 8-)</h1> <!-- header 1: big text -->

      </div>
    </body>
  </html>
```

```
<html>
  <head>
    <title>My Nerdcore Rap Site</title>
    <link rel="stylesheet" href="css/styles.css">
    <script type="text/javascript" src="js/script.js"></script>
  </head>
  <body>
    <div class="container">
      <h1>Nerdcore rap 8-)</h1>
      <ul class="songs"> <!-- unordered (bulleted) list -->

                                </ul>
      </div>
    </body>
  </html>
```

```
<html>
  <head>
    <title>My Nerdcore Rap Site</title>
    <link rel="stylesheet" href="css/styles.css">
    <script type="text/javascript" src="js/script.js"></script>
  </head>
  <body>
    <div class="container">
      <h1>Nerdcore rap 8-)</h1>
      <ul class="songs">
        <li> <!-- list items -->

        </li>
        <li>

        </li>
      </ul>
    </div>
  </body>
</html>
```



```
<html>
  <head>
    <title>My Nerdcore Rap Site</title>
    <link rel="stylesheet" href="css/styles.css">
    <script type="text/javascript" src="js/script.js"></script>
  </head>
  <body>
    <div class="container">
      <h1>Nerdcore rap 8-)</h1>
      <ul class="songs">
        <li> <!-- a = anchor -> link -->
          <a href="/songs/bitcoin/">Bitcoin Baron</a>
        </li>
        <li>
          <a href="/songs/pimping/">The Pimping Lemma</a>
        </li>
      </ul>
    </div>
  </body>
</html>
```

CSS!

- select with `#id`, `.class`, or `tag_name`
- combine them (e.g. `ul.songs`)
- get descendants (e.g. `#container ul`)
- pseudoselectors (e.g. `#btn:hover`)

css box model!



- **content**
- **border**
- **padding** (between content + border)
- **margin** (outside border)

css properties!

- so many :o
- some useful ones:
 - `color` (font color)
 - `background-image`
 - `background-color`
 - `margin`, `border`, `padding`, `width`, etc.

position

- common values:
 - static (default)
 - relative (position statically w/ adjustments)
 - absolute (position wrt to closest relative parent)

floating elements

- want things next to each other? No problem.
- float: horizontally (left/right, not up/down)
- float: left
- stuff after float – flows around it
- before the float – not affected

float away from me!

- Tired of annoying elements floating all up in your space? No problem!
- `property: clear`
- specifies which sides of an element floating elements are NOT allowed.

```
.text_line{  
    clear: both  
}
```

javascript

- dynamic content responding to user actions
- ~~insert using `<script></script>` tags, or best,~~ keep it in separate file and link it in the `<head>`:

```
<script src="js/all.min.js"></script>
```

- grab elements like this:

```
document.getElementById("demo").innerHTML  
= "Hello World!";
```


real talk

- could use DOM, but lesbihonest:
- jQuery – select using css selectors
 - `$(".content#interstitial").show()`
- this is the shit

ANYONE GOT MORE OF THAT

JQUERY?

memegenerator.net

jQuery

- Setting text:

```
$("#button.surprise").text("SURPRISE!")
```

- hiding/showing elements:

```
var $hiddenBox = $( "#message" );  
$("#button-container button").on( "click",  
function( event ) {  
    $hiddenBox.show();  
});
```