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**Please download  
Sublime Text Editor**

**<http://www.sublimetext.com/2>**

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# Intro to Web Development

Michigan Hackers

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# HTML

HyperText Markup Language

Structures the webpage

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▼ learnthack

intro.html

intro.html

Settings

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4
5 </head>
6 <body>
7
8 </body>
9 </html>
```

# CSS

Cascading Style Sheets

Styles the webpage

# CSS



learntohack

intro.html

styles.css

```
1  body {
2    background-color: #000000;
3  }
4
5  .class-name {
6    width: 90%;
7    float: left;
8  }
9
10 #id-name {
11   color: red;
12 }
13
```

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# Coding Environments

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## *Where do I code?*

*Any text editor will do. We suggest:*

*Sublime*



*Atom*





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**Let's check out a webpage**

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**Now, let's build a webpage**

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# Matt's Horrible-Awful-No-Good-Super-Bad-Webpage

## My favorite sites

Facebook  
Twitter  
Buzzfeed

## Here's some words I live by

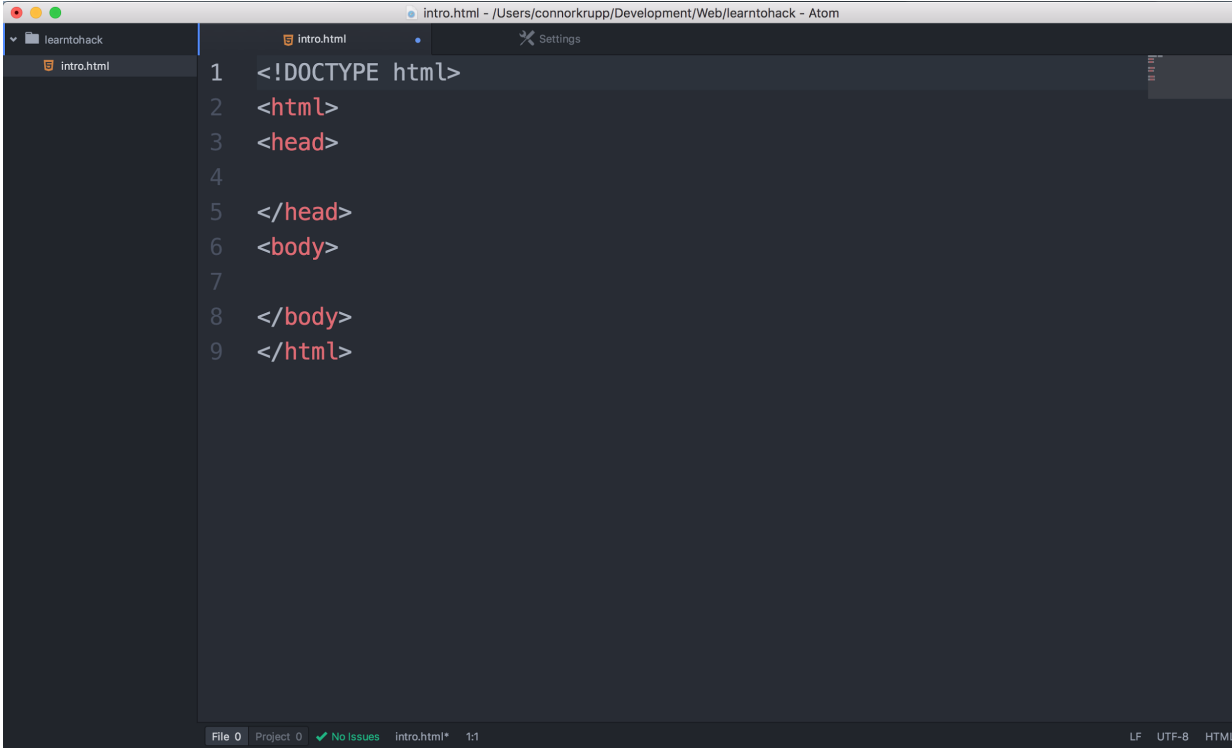
I stay up too late Got nothing in my brain That's what people say That's what people say I go on too many dates But I can't make them stay At least that's what people say That's what people say  
But I keep cruising Can't stop, won't stop moving It's like I got this music In my mind, saying it's gonna be alright Cause the players gonna play, play, play And the haters gonna hate, hate, hate  
Baby I'm just gonna shake, shake, shake Shake it off Heartbreakers gonna break, break, break And the fakers gonna fake, fake, fake Baby I'm just gonna shake, shake, shake Shake it off, Shake it  
off I never miss a beat I'm lighting up my feet And that's what they don't see That's what they don't see I'm dancing on my own I make the moves as I go And that's what they don't know That's  
what they don't know But I keep cruising Can't stop, won't stop grooving It's like I got this music In my mind, saying it's gonna be alright Cause the players gonna play, play, play And the haters  
gonna hate, hate, hate Baby I'm just gonna shake, shake, shake Shake it off Heartbreakers gonna break, break, break And the fakers gonna fake, fake, fake Baby I'm just gonna shake, shake, shake  
Shake it off, Shake it off Hey, hey, hey Just think while you been getting down and out about the liars And the dirty dirty cheats of the world You could have been getting down to this sick beat My  
ex man brought his new girlfriend She's like oh my god But I'm just gonna shake And to the fella over there with the hell a good hair Won't you come on over baby we could shake, shake Cause the  
players gonna play, play, play And the haters gonna hate, hate, hate Baby I'm just gonna shake, shake, shake Shake it off. Shake it off Heartbreakers gonna break, break, break And the fakers gonna  
fake, fake, fake Baby I'm just gonna shake, shake, shake Shake it off, Shake it off Shake it off Shake it off Shake it off Shake it off Shake it off



# HTML

*Basic Structure of  
an HTML file*

*Note: everything is  
tag based*



The screenshot shows the Atom text editor with a file named 'intro.html' open. The file content is as follows:

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4
5 </head>
6 <body>
7
8 </body>
9 </html>
```

The editor interface includes a sidebar on the left showing the project structure with 'learnthack' and 'intro.html'. The top status bar indicates 'File 0', 'Project 0', 'No Issues', 'intro.html\*', and '1:1'. The bottom right corner shows 'LF', 'UTF-8', and 'HTML'.

## **`<head>`**

*Think of this as the information ABOUT your html file.*

*None of this is actually on your page*

*Stuff you put here...*

*`<title>`, `<style>`, `<scripts>`*

## **`<body>`**

*The actual content of your page*

*This will be made up of many different types of tags like headers, paragraphs, lists, images, icons, etc...*

*`<h1>`, `<h5>`, `<p>`, `<ul>`, `<li>`, `<img>`, `<i>`*

*Note: Every tag must be open and closed (`<h2>.....</h2>`)*

*Think of these as parentheses to keep elements together.*

## *Headers*

**<h1>Heading 1</h1>**

**<h2>Heading 2</h2>**

**<h3>Heading 3</h3>**

**<h4>Heading 4</h4>**

**<h5>Heading 5</h5>**

**<h6>Heading 6</h6>**

## Michigan Football Rocks

Two other unlikely contenders distinguished themselves Saturday. The names won't come as a shock, as both are traditional heavyweights, but did anyone really expect Florida and Michigan to be in this position after Week 6?

The Gators and Wolverines are way ahead of schedule under their first-year coaches, and both suddenly look like favorites in their respective conferences. We'll find out how good those teams really are next week, when No. 11 Florida travels to No. 7 LSU and No. 18 Michigan hosts No. 4 Michigan State in the Big House with ESPN's College GameDay on site.

```
samples.html x
1  <!DOCTYPE html>
2  <html>
3    <head>
4    </head>
5    <body>
6      <h1>Michigan Football Rocks</h1>
7      <p>Two other unlikely contenders distinguished themselves Saturday.
      The names won't come as a shock, as both are traditional
      heavyweights, but did anyone really expect Florida and Michigan to be
      in this position after Week 6?</p>
8
9      <p>The Gators and Wolverines are way ahead of schedule under their
      first-year coaches, and both suddenly look like favorites in their
      respective conferences. We'll find out how good those teams really
      are next week, when No. 11 Florida travels to No. 7 LSU and No. 18
      Michigan hosts No. 4 Michigan State in the Big House with ESPN's
      College GameDay on site.</p>
10    </body>
11  </html>
```



## *Lists*

*Made of an overall (unordered list)<ul> with individual <li> (list item) elements*

*Great for menus or collections of links*

```
<ul>  
  <li></li>  
  <li></li>  
  <li></li>  
  <li></li>  
</ul>
```

# HTML

## Thing I Like In My Burritos

- Cheese
- Steak
- Queso
- NOT GUAC

```
samples.html
1  <!DOCTYPE html>
2  <html>
3    <head>
4    </head>
5    <body>
6      <h3>Thing I Like In My Burritos</h3>
7      <ul>
8        <li>Cheese</li>
9        <li>Steak</li>
10       <li>Queso</li>
11       <li>NOT GUAC</li>
12     </ul>
13   </body>
14 </html>
```

# HTML

*Speaking of links....*

*Use the <a> tag for hyperlinks*

```
<a href="http://www.facebook.com">Go stalk your friends!</a>
```

## *Adding images*

Local file...

```

```

from url...

```

```

# HTML

*But what if I have a lot of different elements?*

*How do I keep track of what's what?*

*Use <div> tags!*

# HTML

*Now we have a lot going on, but style wise it's crap....*

*How do you style things?*

*<body> 's , <li>'s?*

*Add classes!*

*<div class="jumbotron"></div>*

*Questions?*

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Now, let's style a webpage

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# Matt's Horrible-Awful-No-Good-Super-Bad-Webpage

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Buzzfeed

## Here's some words I live by

I stay up too late Got nothing in my brain That's what people say That's what people say I go on too many dates But I can't make them stay At least that's what people say That's what people say  
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Baby I'm just gonna shake, shake, shake Shake it off Heartbreakers gonna break, break, break And the fakers gonna fake, fake, fake Baby I'm just gonna shake, shake, shake Shake it off, Shake it  
off I never miss a beat I'm lighting up my feet And that's what they don't see That's what they don't see I'm dancing on my own I make the moves as I go And that's what they don't know That's  
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Shake it off, Shake it off Hey, hey, hey Just think while you been getting down and out about the liars And the dirty dirty cheats of the world You could have been getting down to this sick beat My  
ex man brought his new girlfriend She's like oh my god But I'm just gonna shake And to the fella over there with the hell a good hair Won't you come on over baby we could shake, shake Cause the  
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intro.html

styles.css

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2   background-color: #000000;
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5 .class-name {
6   width: 90%;
7   float: left;
8 }
9
10 #id-name {
11   color: red;
12 }
13
```

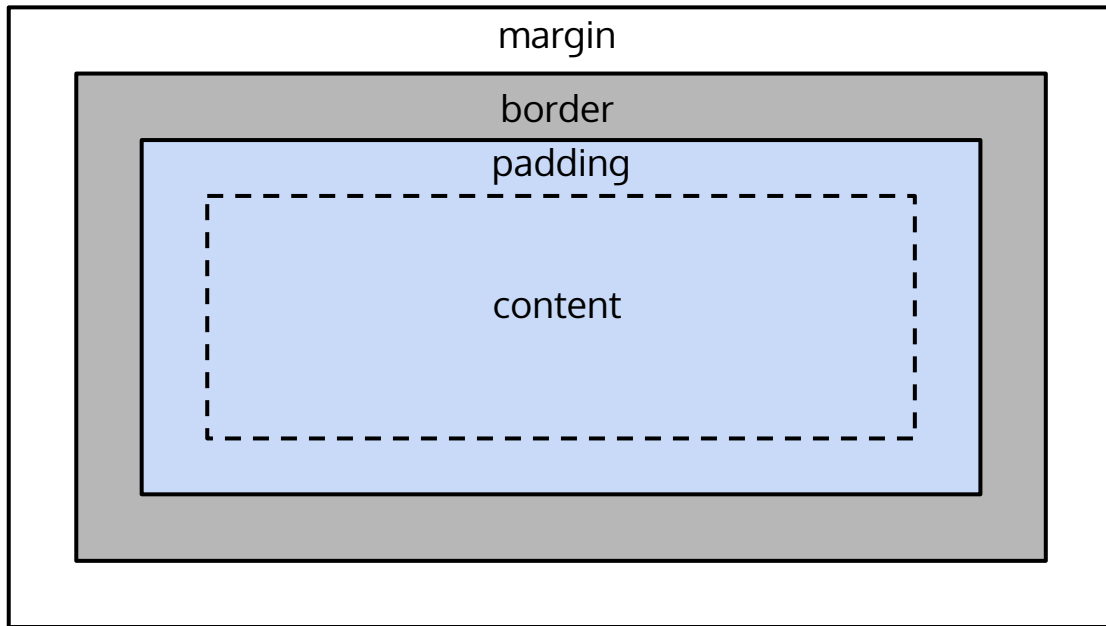
# CSS

## *Position*

- static
- fixed
- absolute
- relative

## *margin*

- auto

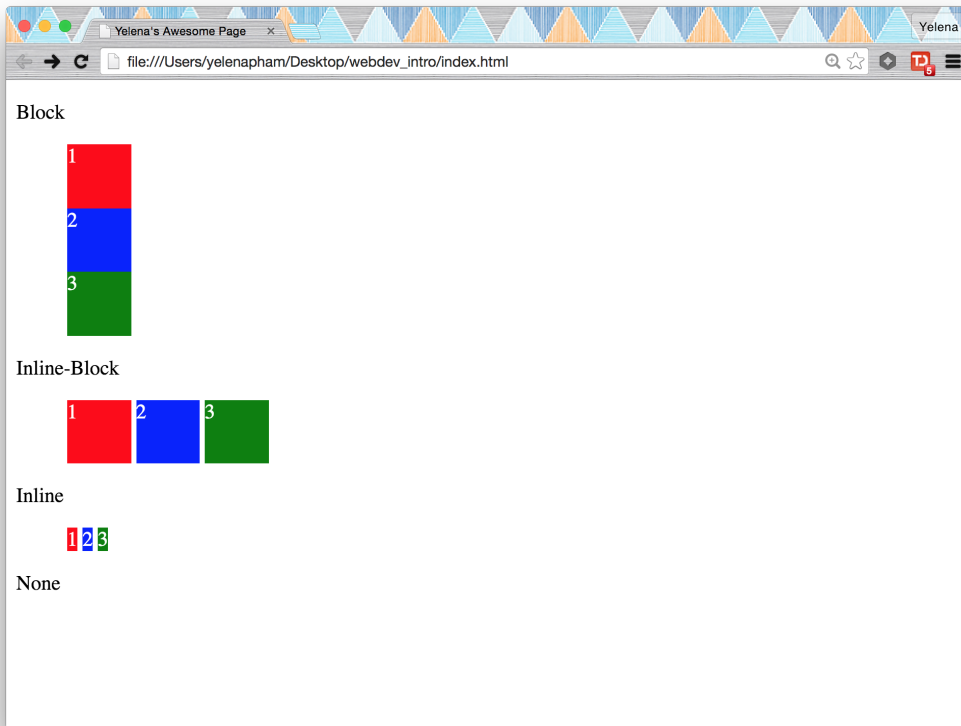


## *Display*

- block
- inline-block
- inline
- none

## *Float*

- left, right, none
- clear



# CSS: Floats



# CSS: Colors

## *By Name*

- blue
- red
- green

## *By Hex Code*

- #000000
- #f398ds
- #87weFF

## *By RGB*

- rgb(255,255,255)
- rgb(127, 67, 0)
- rgba(120, 212, 34, 0)

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# CSS Demo

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# Useful Resources

W3Schools

GitHub Student Pack

Namecheap domains

DigitalOcean hosting

Michigan Hackers!!!

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# Thank You!

Michigan Hackers

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