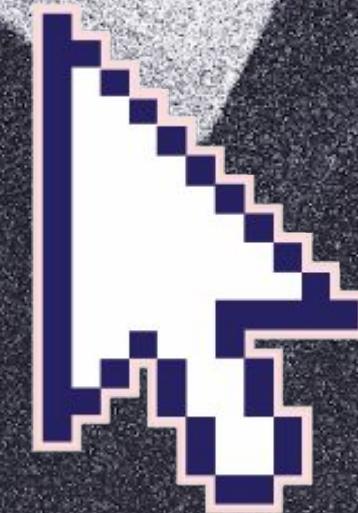
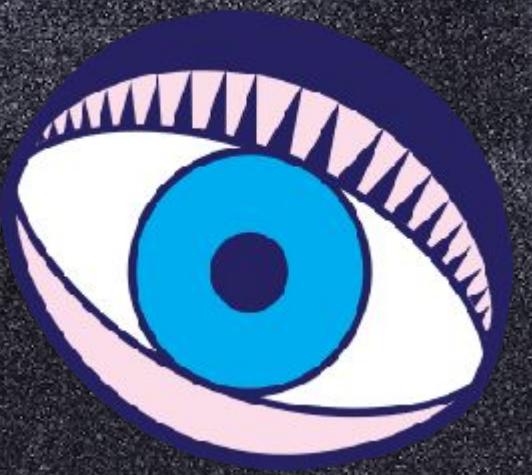


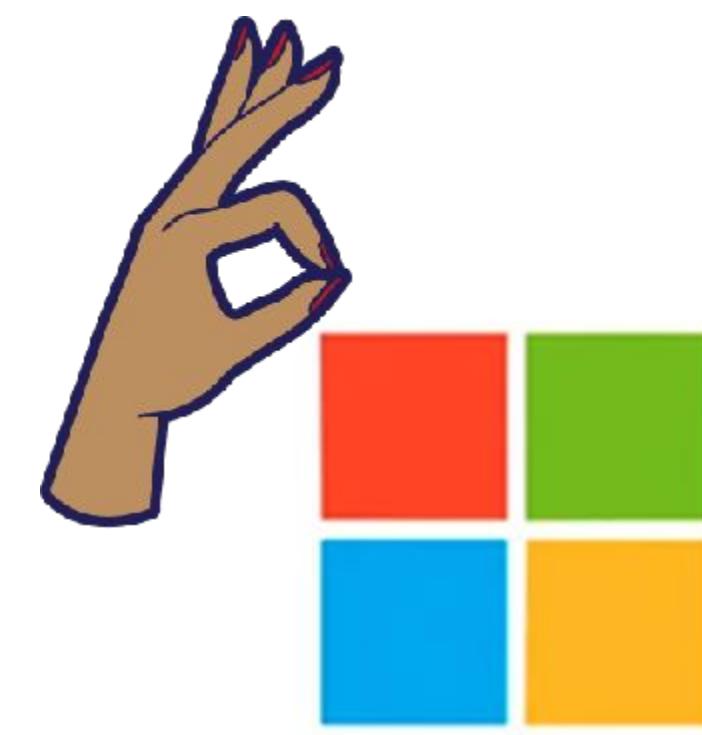


DESIGN & BUILD A WEBSITE!

With Milly &
Tasja



CODE LIKE A GIRL



Microsoft

YOUR INSTRUCTOR TODAY

Milly Schmidt

- 7+ years experience in web development
- 2+ years of teaching code to women & girls
- Works as a designer and coder
- Likes meeting new cats





AND YOUR OTHER INSTRUCTOR...



Tasja Laurie

- 1 year experience in web development
- Taught herself to code
- Works as a Graduate Software Engineer





CLICK!
CLICK!

LET'S
GET
STARTED



TAKEAWAYS



In this workshop you will learn how to design & build your own website from scratch. We will cover the following topics:

- How does the internet work?
- How are web pages made?
- What is HTML & CSS?
- Make a cool website of your own!





WHO ARE YOU?

**WHAT DO YOU WANT TO
MAKE A WEBSITE ABOUT?**



YOUR PERSONAL WEBSITE?

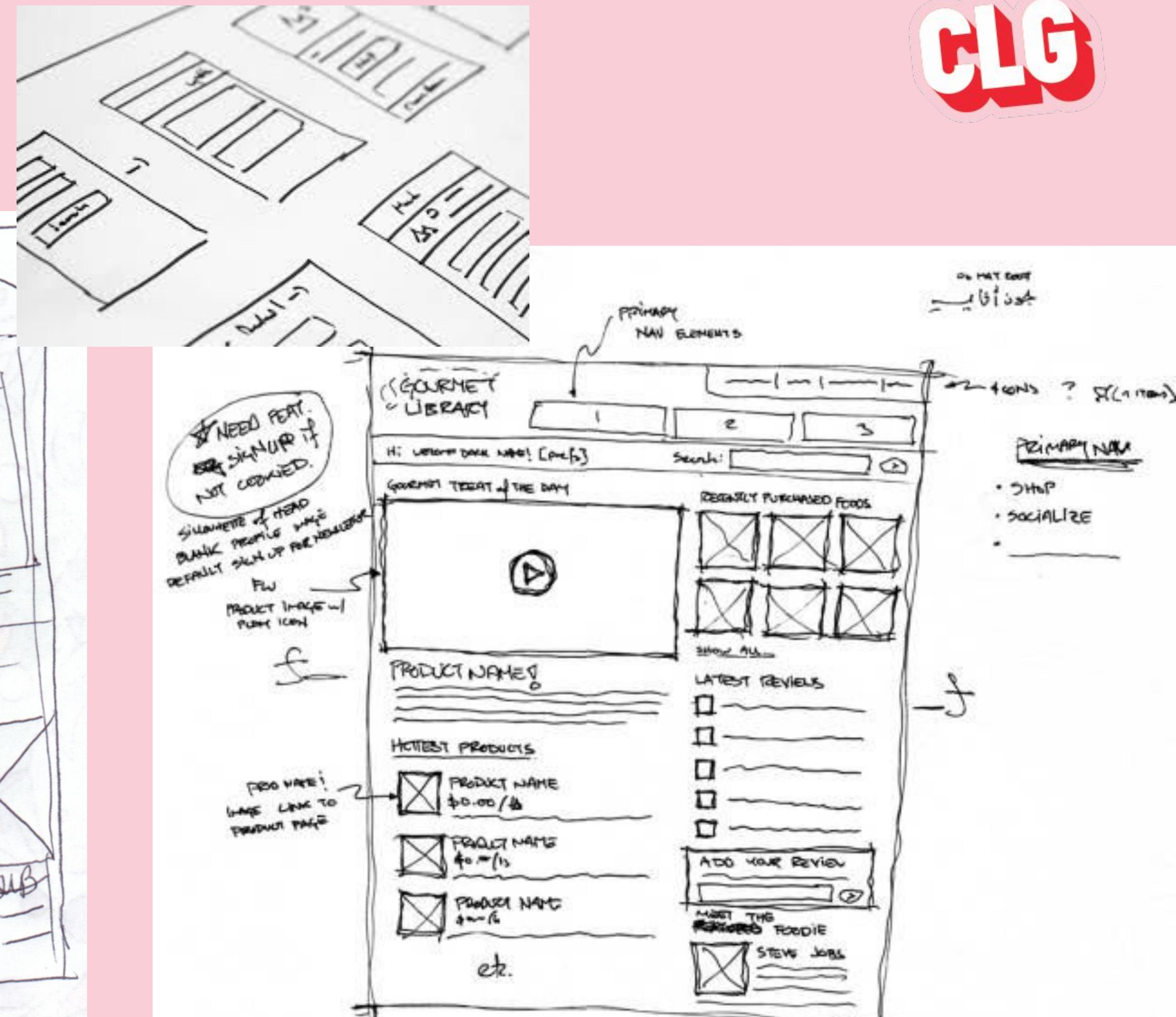
A GROUP OR TEAM YOU'RE PART OF?

**YOUR FAVOURITE CHARACTER OR
CELEBRITY?**

YOUR FAVOURITE HISTORICAL FIGURE?

YOUR FAVOURITE ANIMAL?

LET'S DRAW!





HOW DO WEBSITES EVEN WORK?



SURPRISE POP QUIZ!

WHAT'S A COMPUTER?



WHAT'S A BROWSER?



WHAT'S A WEBSITE?



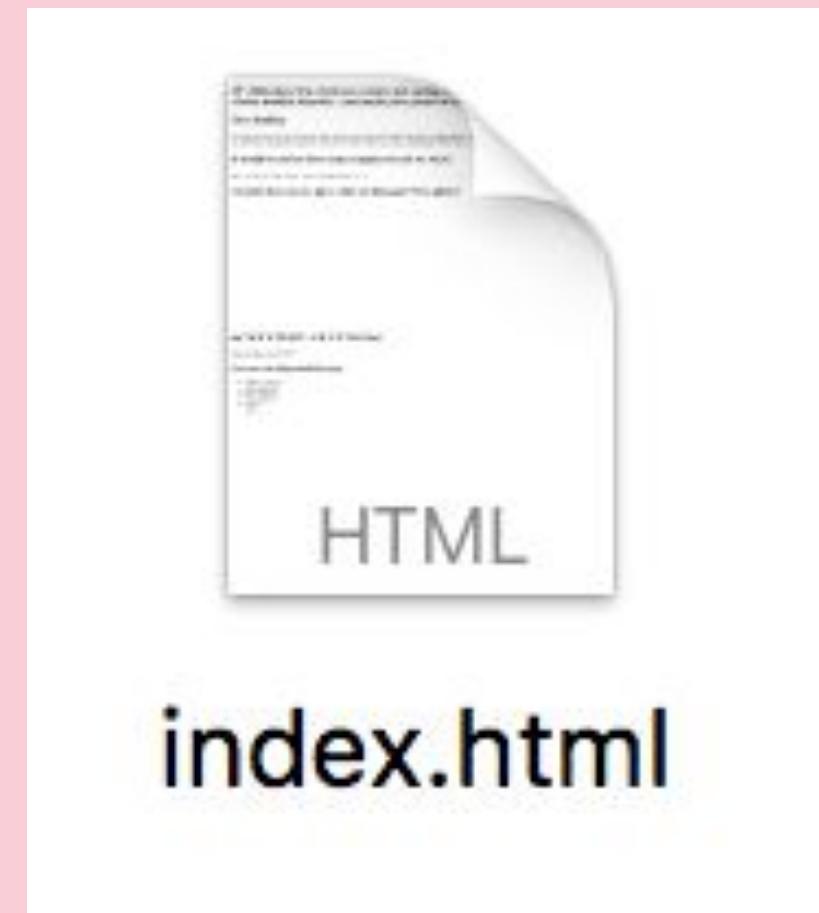


WHAT ARE WEBSITES MADE OF?



URL: “<http://www.google.com>”

HTML:



index.html

CSS:



styles.css

WHAT IS HTML?



HTML

Hyper Text Markup Language



DIFFERENCES

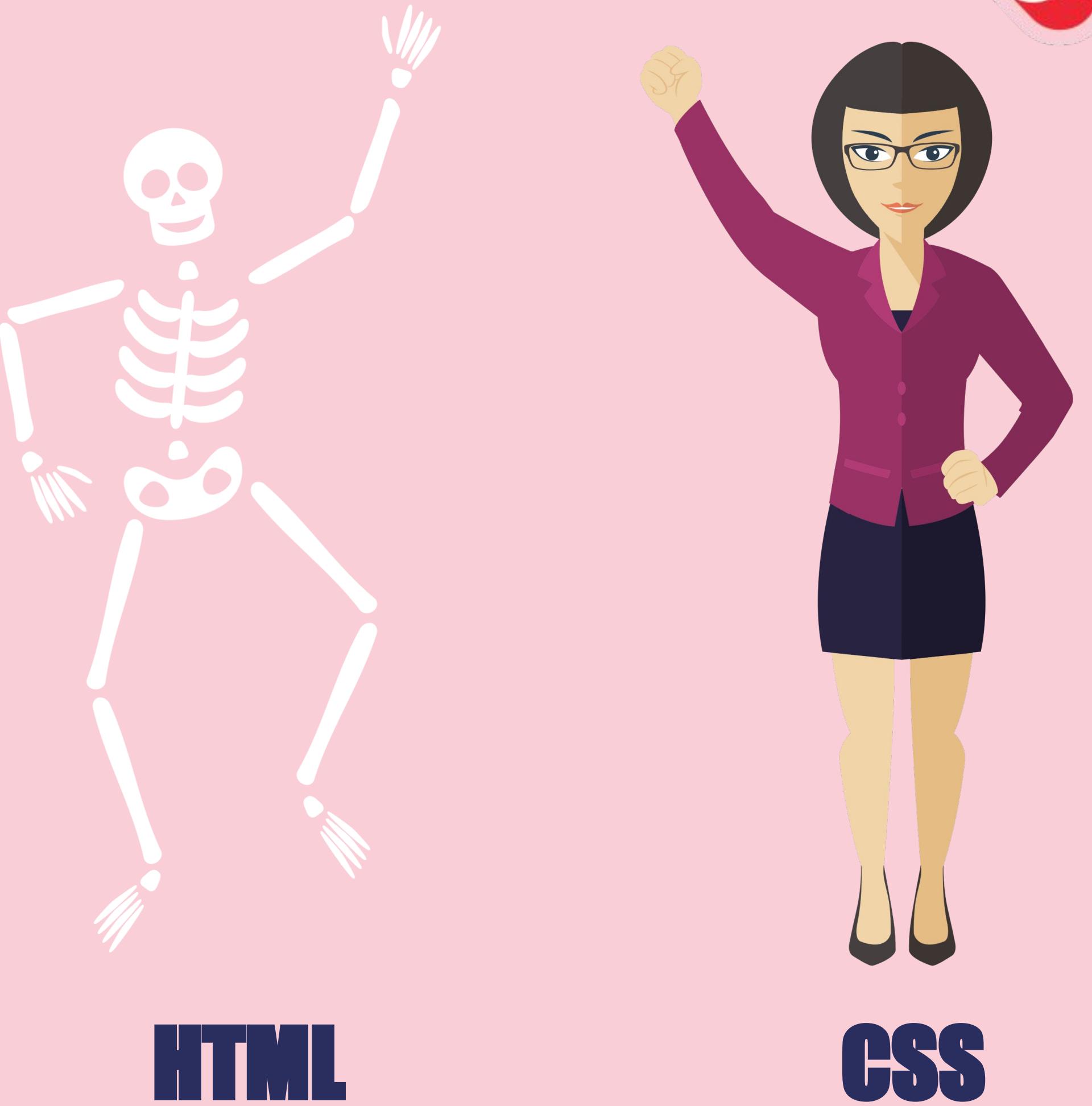


HTML defines the **content**

of a website (the bones)

CSS assigns the **styles** of

the website (the skin)



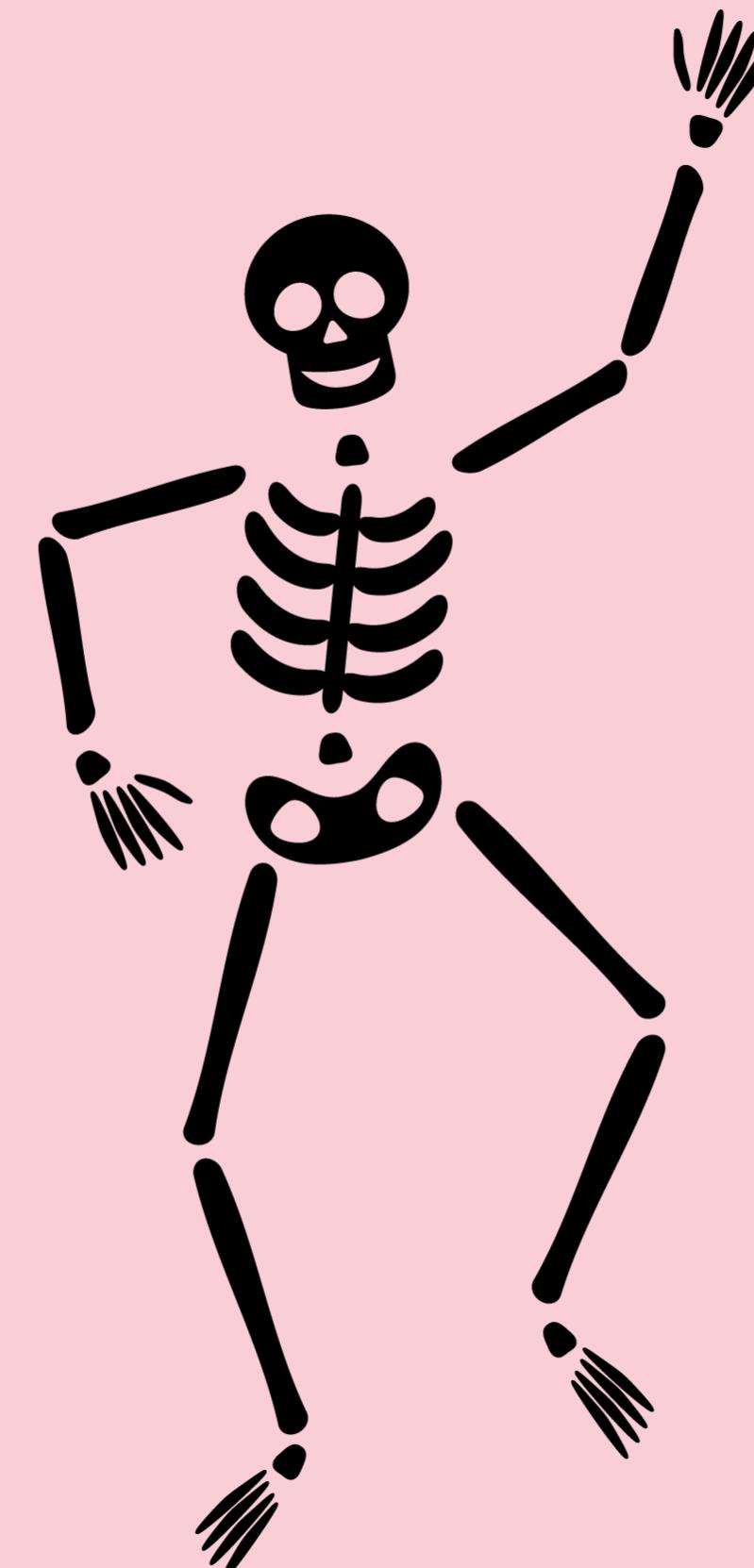
HTML

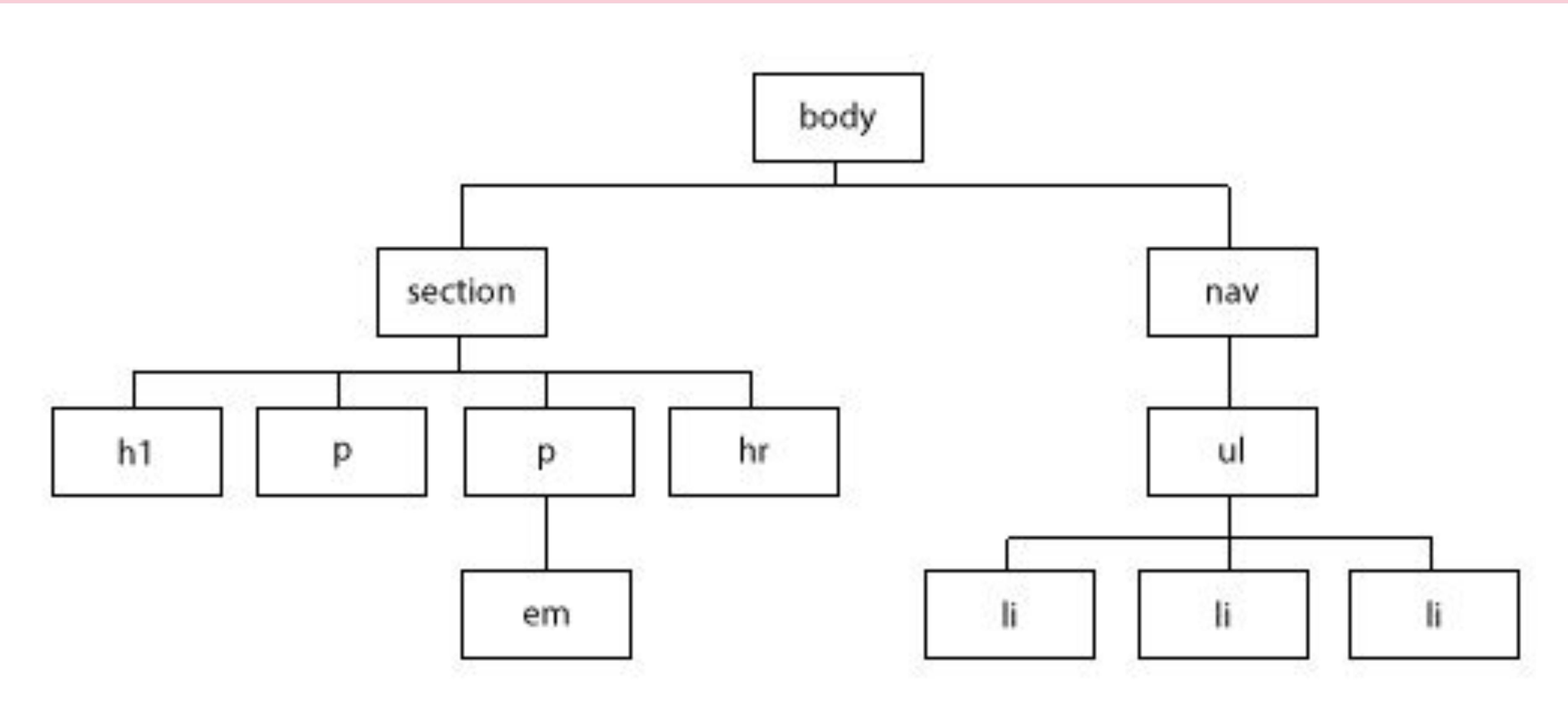


A SIMPLE HTML DOCUMENT



```
<!DOCTYPE html>
<html>
  <head>
    <title>Page Title</title>
  </head>
  <body>
    <h1>My First Heading</h1>
    <p>My first paragraph.</p>
  </body>
</html>
```

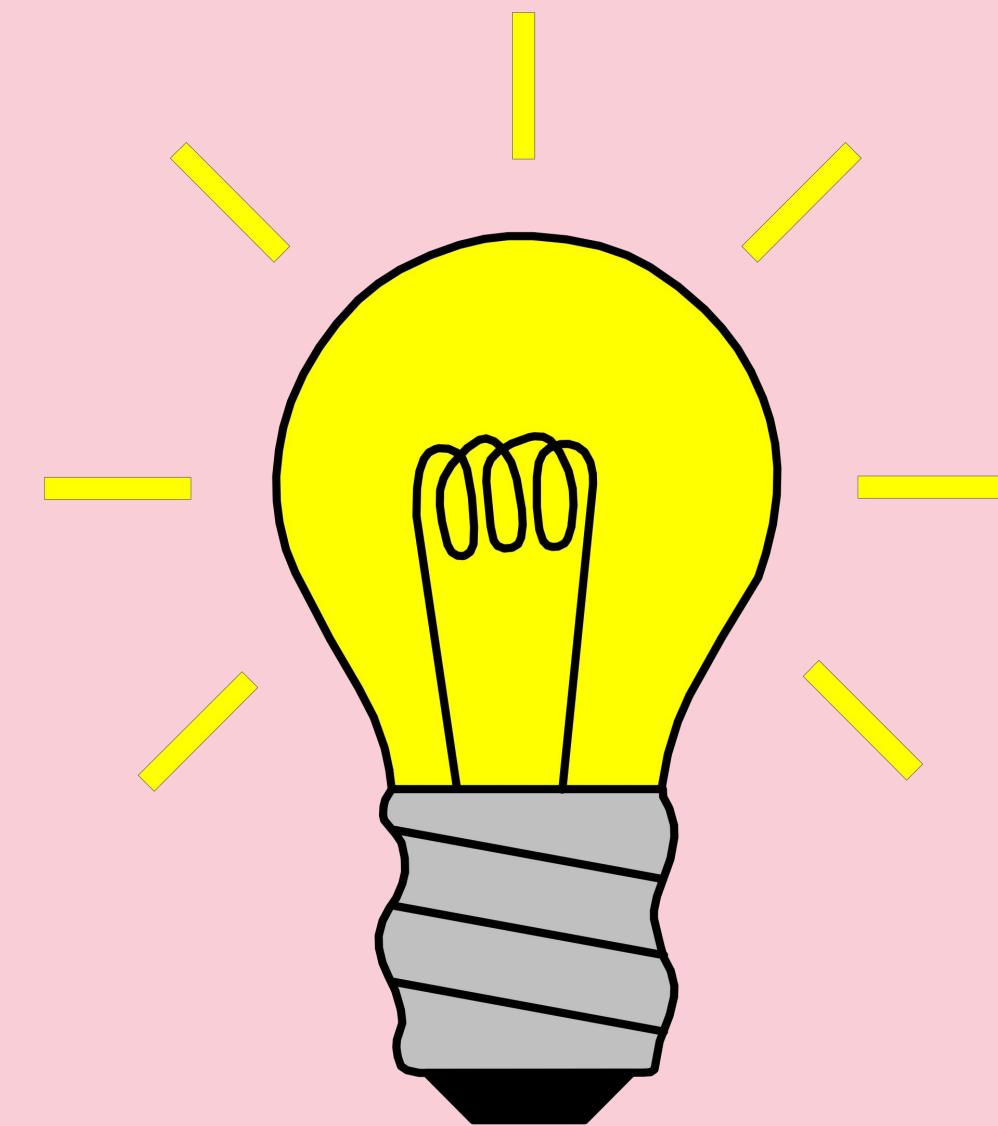




SOME TRICKS!



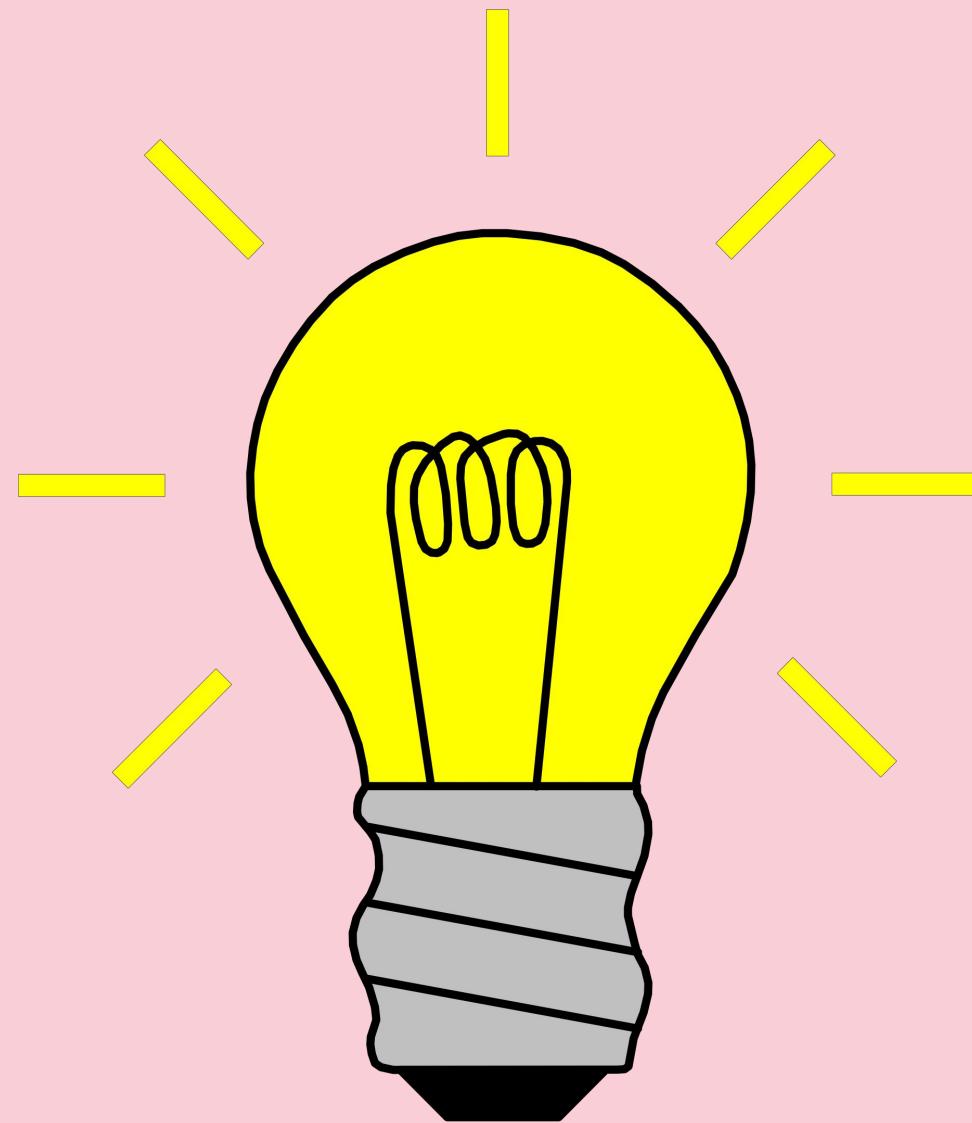
- Some elements are self-closing (and some **aren't**)
 - <div> </div>
 - <input type="text" />
- Some elements can be repeated - others can't!
 - <p></p><p></p> (add as many as you'd like!)
 - <body></body> (there can only be **one** body element)



MORE TRICKS...



- Some HTML elements include **attributes**
 - `<div class="purple-box"></div>`
- HTML elements can be **nested**
 - `<div>`
`<p>Hello!</p>`
`</div>`



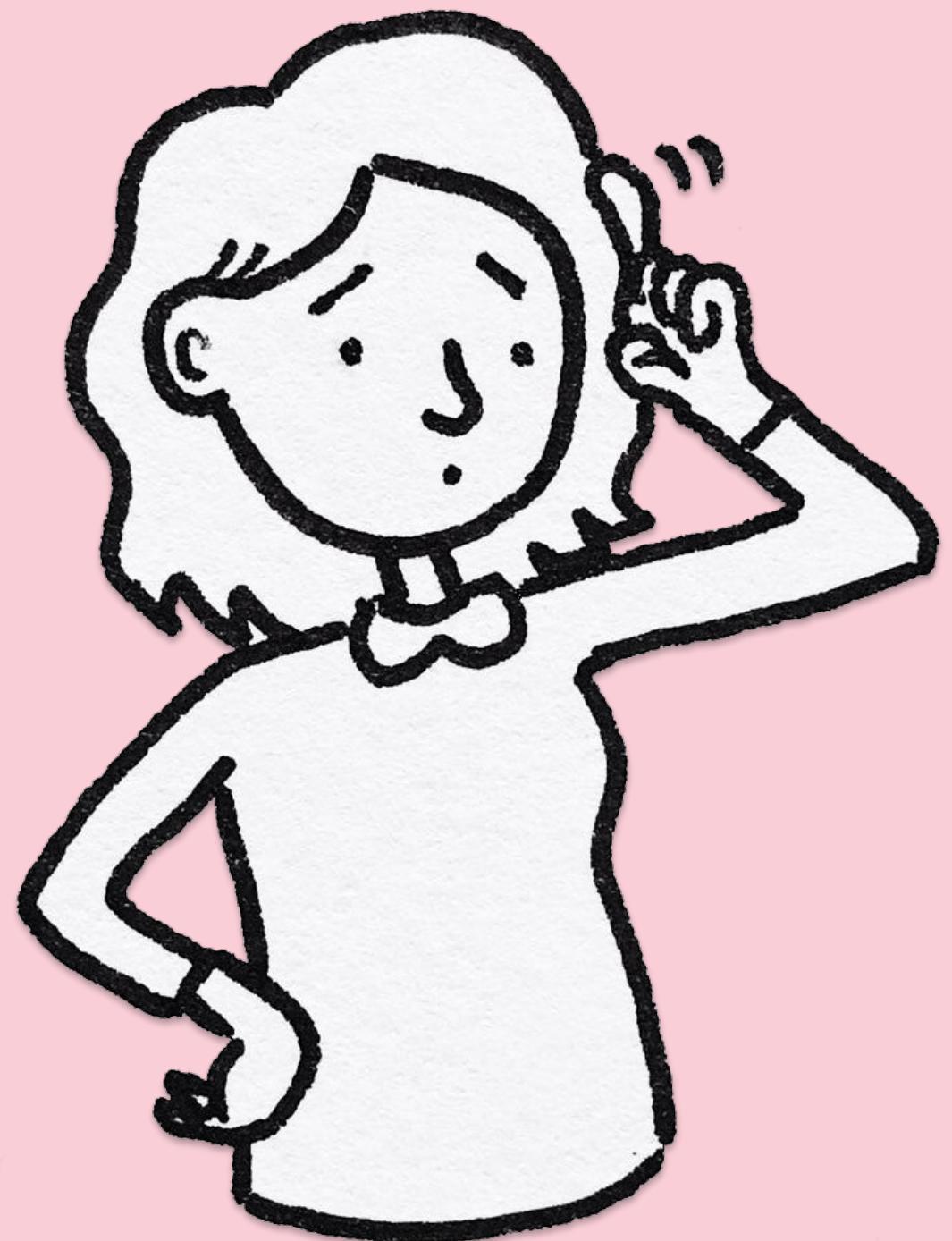
THINGS TO REMEMBER

- Nest everything within the `<html>` element
- All tags are **lowercase** (no capital letters!)
- HTML is written in **American English** (i.e. center instead of centre).
- You don't have to put HTML tags on different lines but it makes it **easier to read**



WE STILL GET THIS STUFF WRONG

ALL THE TIME!



THE SECRET WEAPON...

The Google logo is centered on a white rectangular background. It consists of the word 'Google' in its signature multi-colored font. The letters are blue, red, yellow, and green.

WHAT WE JUST LEARNED

- HTML stands for Hypertext Markup Language
- HTML is the content of your website
- HTML helps create the structure of your website and puts things on the page





CSS

WHAT IS CSS?

Cascading Style Sheets

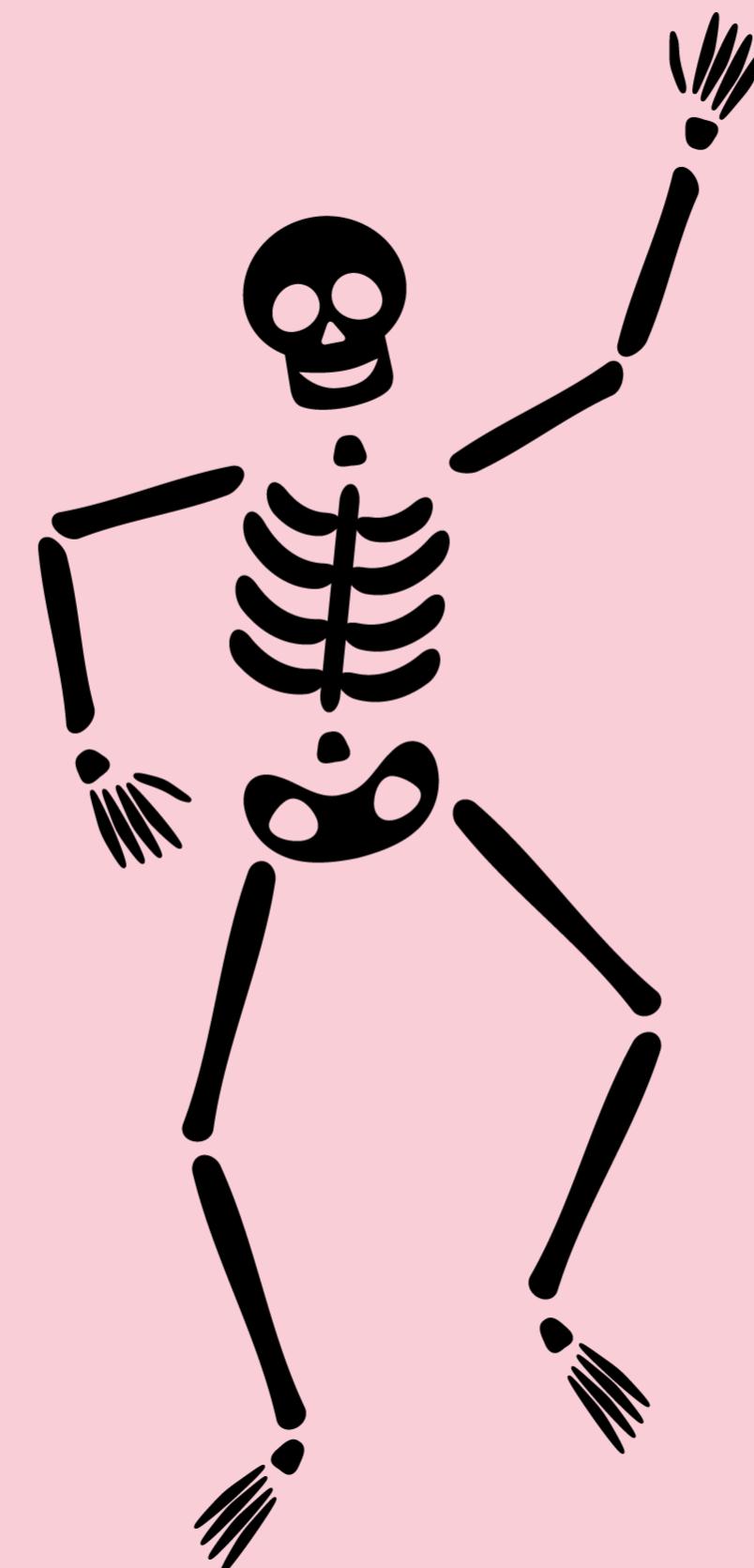


{codelikeagirl}

A SIMPLE HTML DOCUMENT



```
<!DOCTYPE html>
<html>
  <head>
    <title>Page Title</title>
  </head>
  <body>
    <h1>My First Heading</h1>
    <p>My first paragraph.</p>
  </body>
</html>
```



A SIMPLE CSS DOCUMENT



```
body {  
  background-color: black;  
}
```

```
h1 {  
  color: pink;  
  text-align: center;  
}
```



css



selector { property: value; }

CSS Rule

Selector

Declaration

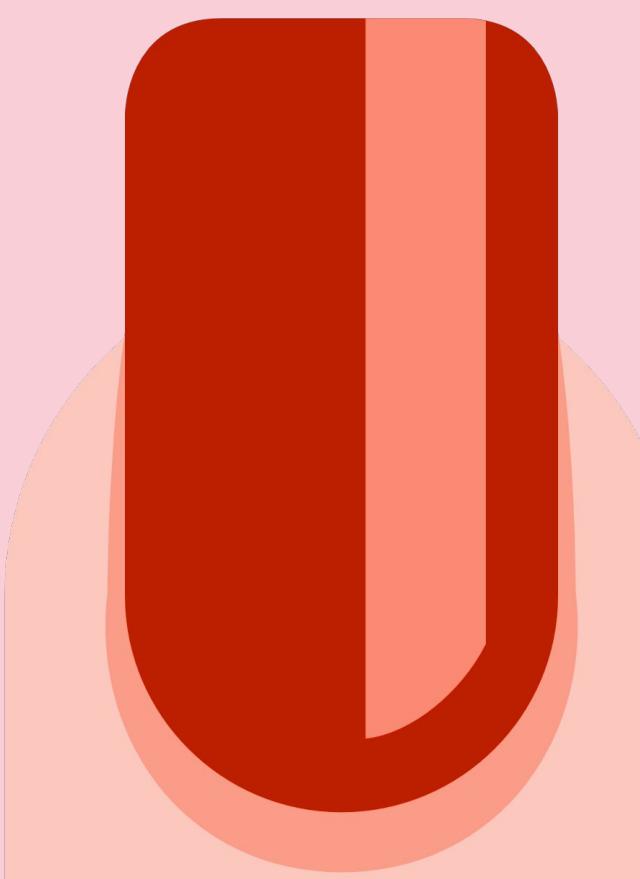
#mylink { color: white; font-size: 12px; }

Property

Value

Property

Value





Text colour

Background colour

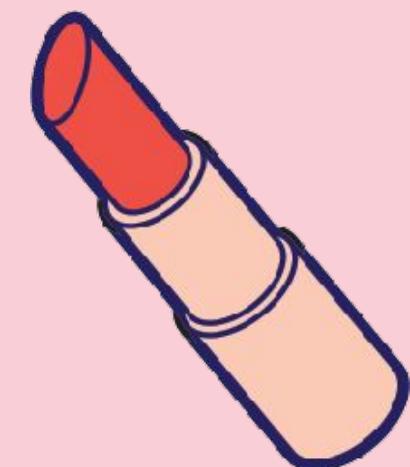
Fonts

Text size

Borders

Shadows

Layouts



Background image

List style

Link style

Font style

Text alignment

WHAT WE JUST LEARNED

- CSS stands for Cascading Style Sheets
- CSS makes things pretty!
- You can change colours, fonts, the size of things and layout in CSS





But first...

LET'S LOOK AT SOME CODE

EXAMPLE

EMPOWERING WOMEN AND GIRLS TO BE EQUAL
CREATORS IN BUILDING THE FUTURE.

Code Like a Girl website

LEARN MORE



GIRLS, WE WANT YOU!

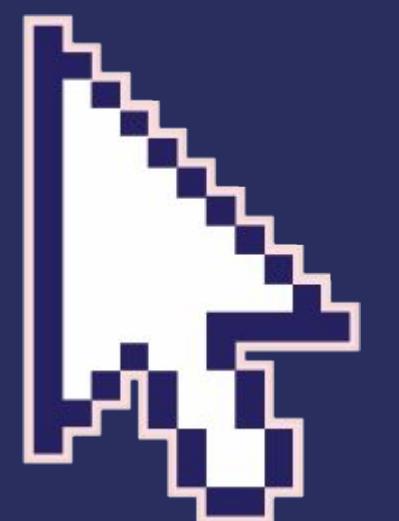
WHAT WE JUST LEARNED

- How to use a browser to tinker and discover other websites



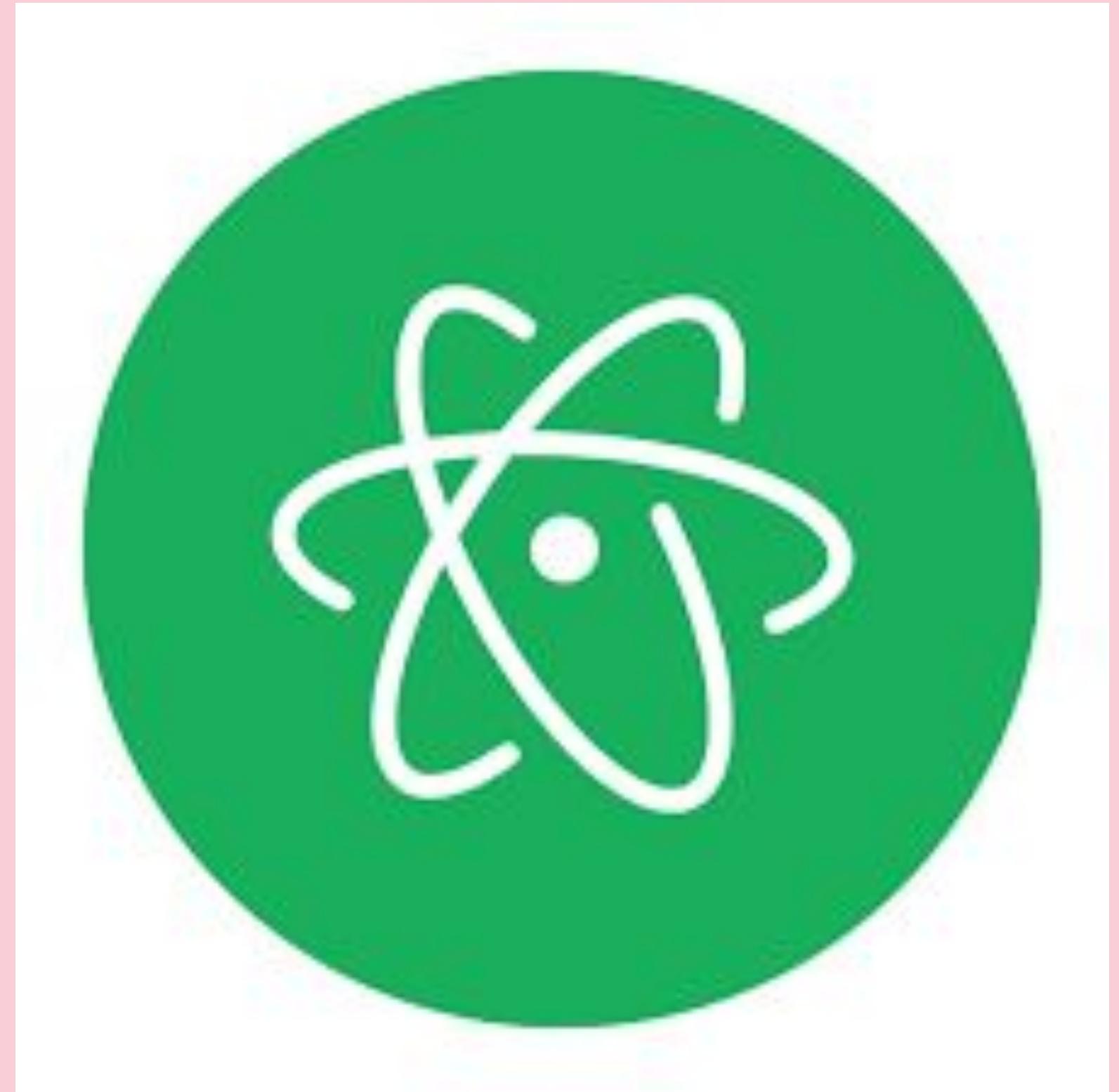


**LET'S GET
SET UP**





goo.gl/HeJDvX



Atom

WHAT WE JUST LEARNED

- How to edit code in a code editor
- Type, Save, Browser, Refresh as the four steps for seeing your changes



QUESTIONS?





EXERCISE: MAKING BOXES

DIV TAG



<div>

</div>

DIV TAG



```
<div class="cool-box">
```

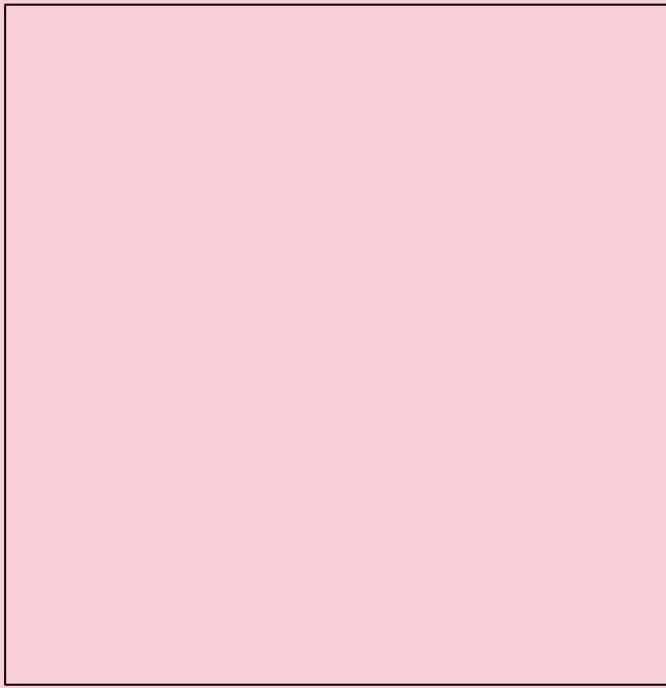
```
</div>
```

DIV TAG



```
<div class="cool-box">  
  </div>
```

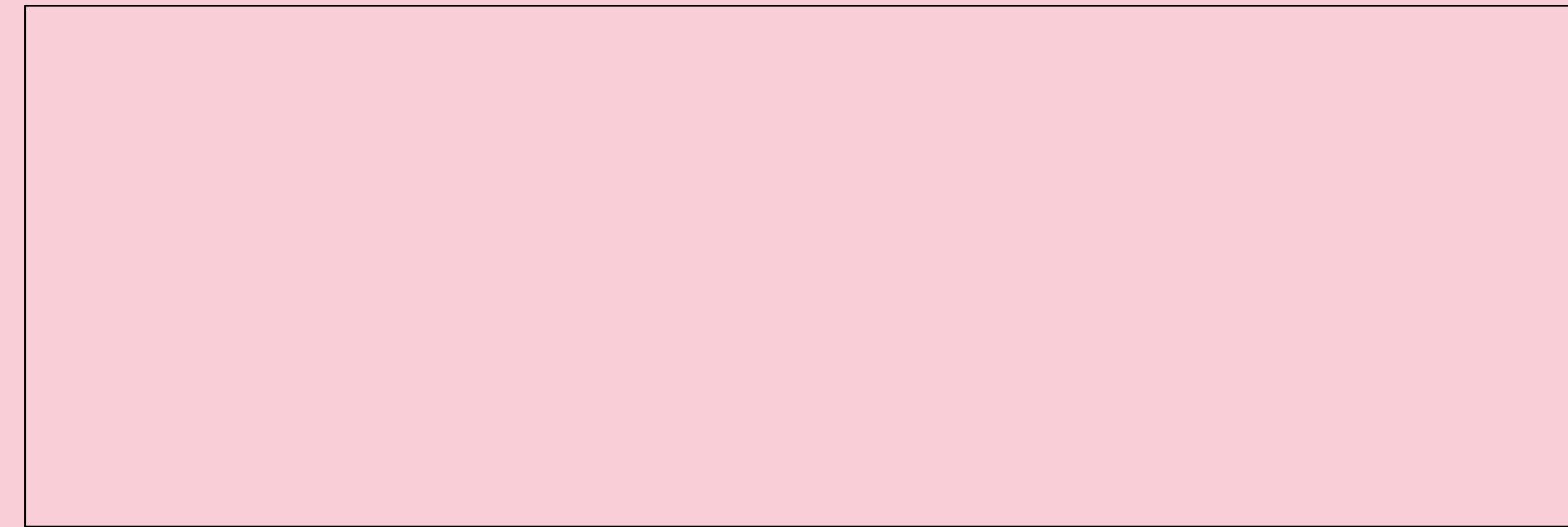
```
.cool-box {  
  width: 100px;  
  height: 100px;  
  border: 1px solid black;  
}
```





DIV TAG

```
<div class="cool-box">  
  </div>
```

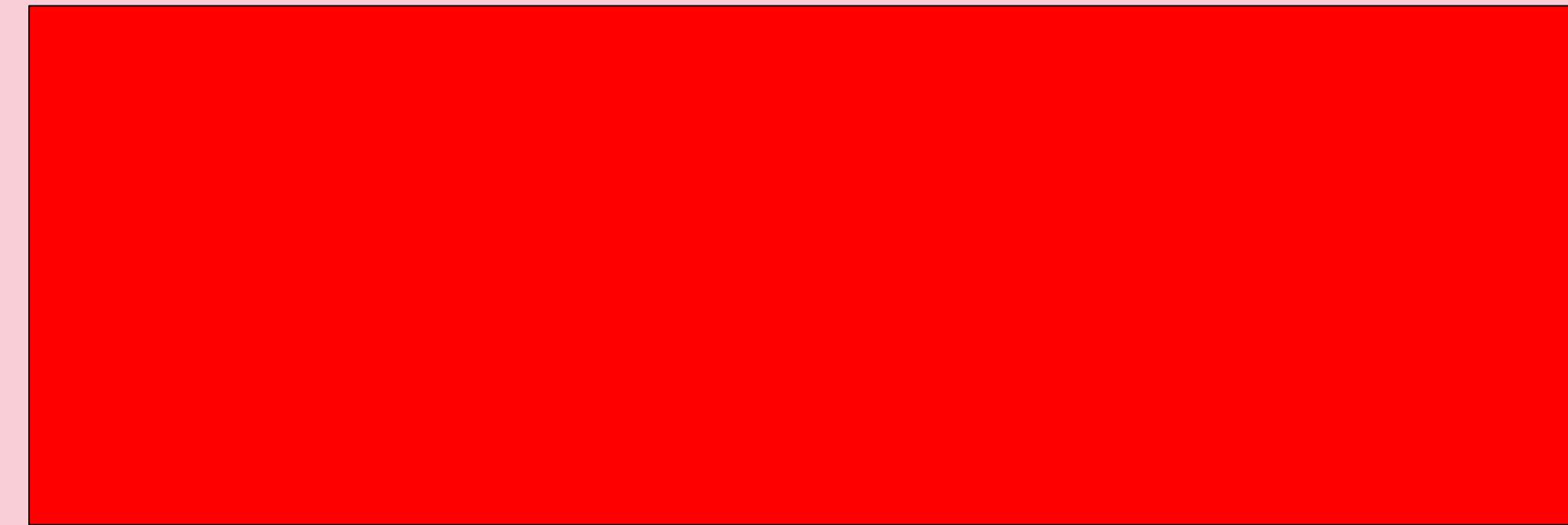


```
.cool-box {  
  width: 300px;  
  height: 100px;  
  border: 1px solid black;  
}
```



DIV TAG

```
<div class="cool-box">  
</div>
```



```
.cool-box {  
    width: 300px;  
    height: 100px;  
    border: 1px solid black;  
    background-color: red;  
}
```

float: left





float: right

WHAT WE JUST LEARNED

- What a `<div>` is in HTML
- `<div>` tags can be nested
- `<p>` and other tags go inside `<div>` tags
- `<div>` tags can have classes to style with CSS
- How to create layouts with `<div>`
- How to add spacing in code





TRY IT YOURSELF!

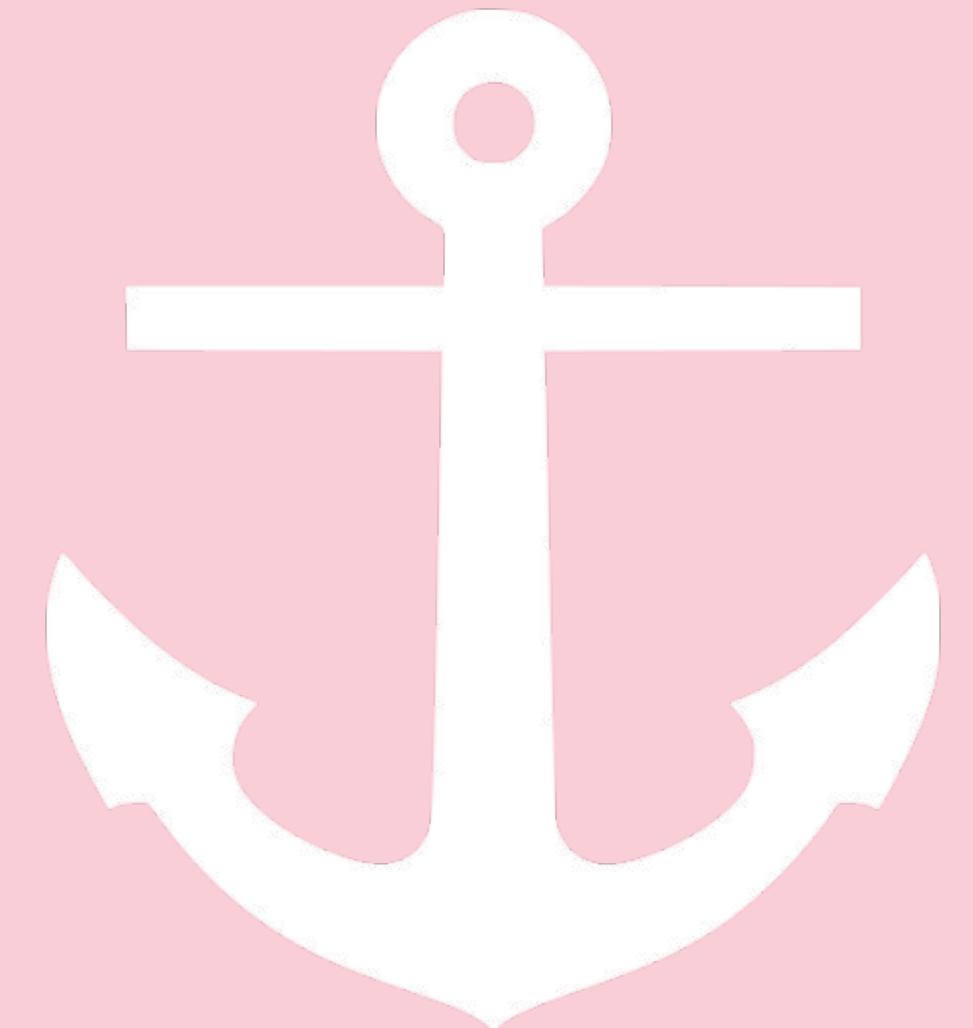


EXERCISE: LISTS, LINKS & IMAGES

ANCHOR TAG (LINK)



`Link to Google`





PARAGRAPH TAG

<p>

This is a paragraph with only one sentence but we can have several sentences in one paragraph if we want to.

</p>

<p>

This is another paragraph</br>

It has a line break.

</p>

IMAGE TAG



```

```



LISTS



Unordered List

```
<ul>
  <li>List Item 1</li>
  <li>List Item 2</li>
  <li>List Item 3</li>
</ul>
```

- —
- —
- —

Ordered List

```
<ol>
  <li>List Item 1</li>
  <li>List Item 2</li>
  <li>List Item 3</li>
</ol>
```

1. —
2. —

WHAT WE JUST LEARNED



- How to make lists and links with HTML
- How to style lists and links





**TIME TO
GET TO
WORK**





**SHARE
YOUR
WORK!**



**KEEP
YOUR
WORK!**



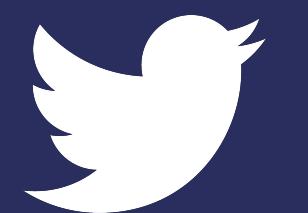
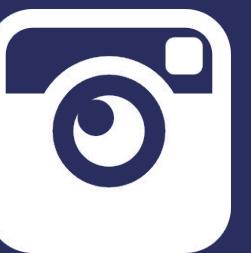
THANK YOU

A small, light purple speech bubble icon is positioned to the right of the 'U' in 'THANK YOU'. It contains a dark purple heart icon and the number '1' in a smaller dark purple font, representing a single like or comment.

codelikeagirl.org



#CODELIKEAGIRLAU



CODE LIKE A GIRL