



NEXT  
ACADEMY

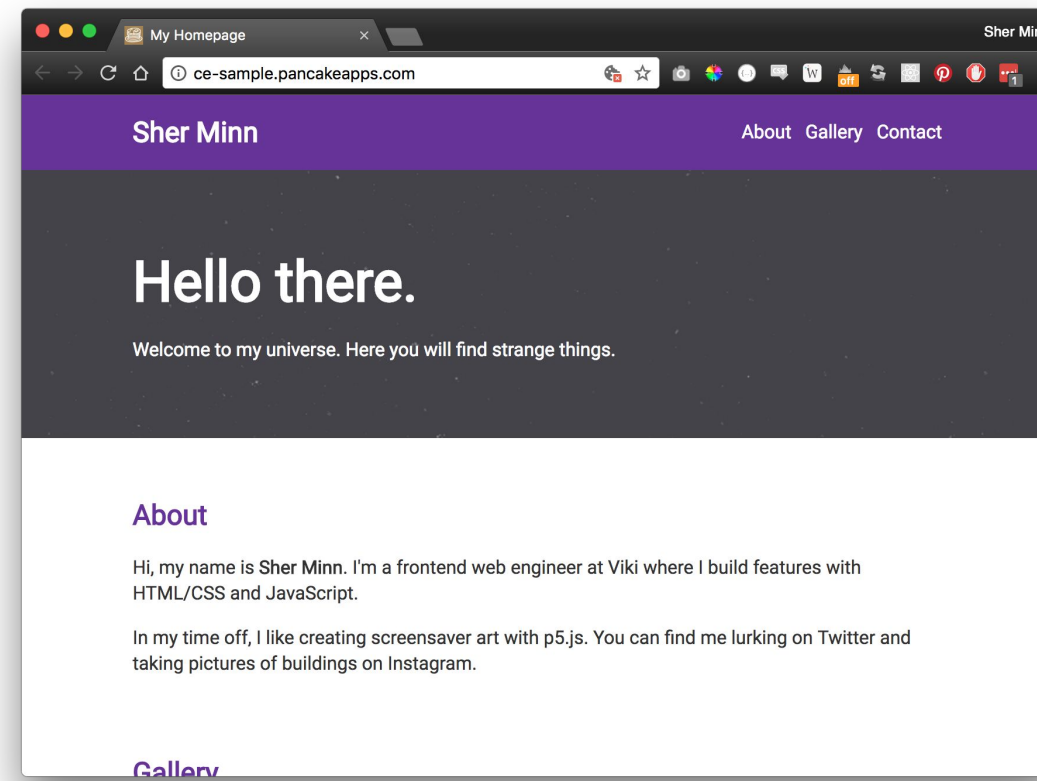
# Introduction to Web Development

## Week 1: How does Websites Work + HTML





# This week's goal



**You are going to build a website**

**Example: <https://git.io/vSPxo>**





# Agenda: Week 1

- What is code?
- What is HTML and CSS?
- Introduction to HTML
- How the web works





# What is code? HTML/CSS?

Augh, abbreviations!





# What is Code?

## Code is the language of computers

- Code is a set of instructions for the computer
- Everything you use on the computer is written in code
- We're going to write code for the browser



# Browsers

- An application for browsing content on the World Wide Web
- Browsers understand HTML and CSS





# HTML

## Hyper Text Markup Language

- Latest specification: HTML5
- Content layer
- Defines document content







# HTML only

## Sher Minn

- [About](#)
- [Gallery](#)
- [Contact](#)

## Hello there.

Welcome to my universe. Here you will find strange things.

### About

Hi, my name is **Sher Minn**. I'm a frontend web engineer at Viki where I build features with HTML/CSS and JavaScript.

In my time off, I like creating screensaver art with p5.js. You can find me lurking on Twitter and taking pictures of buildings on Instagram.

### Gallery



### Get in touch

You can find me on these social media links sometimes. Come say hi!







# CSS

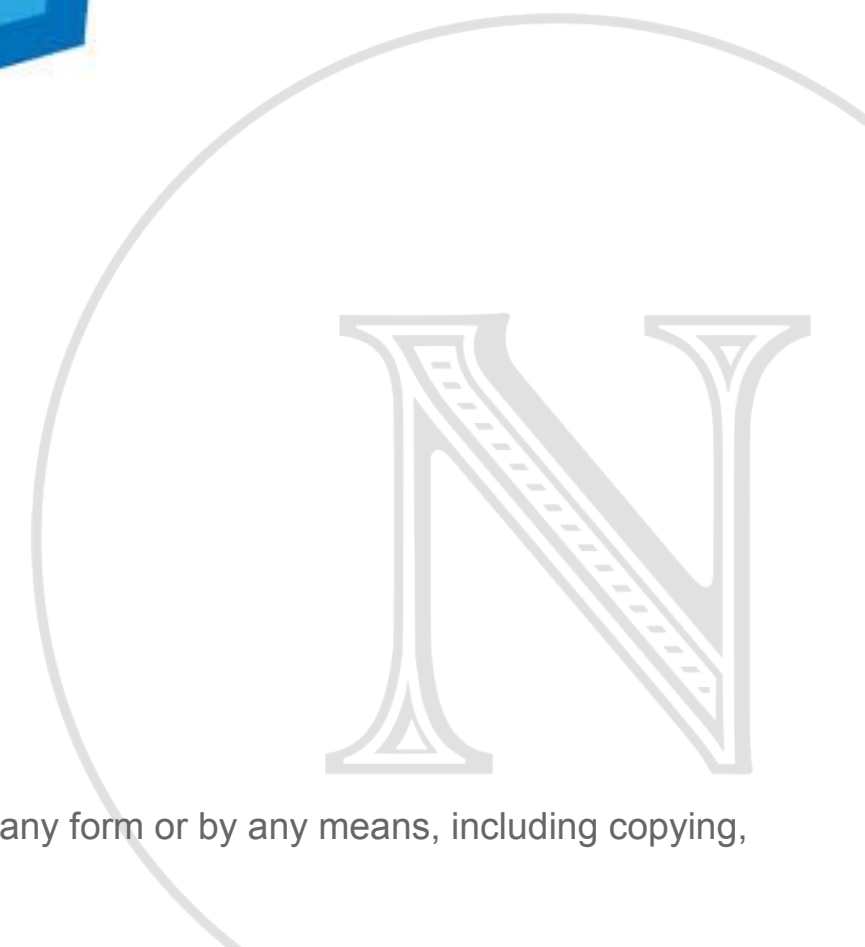
## Cascading Style Sheets

- Latest generation: CSS3\*
- Presentation layer
- Defines styles of HTML content

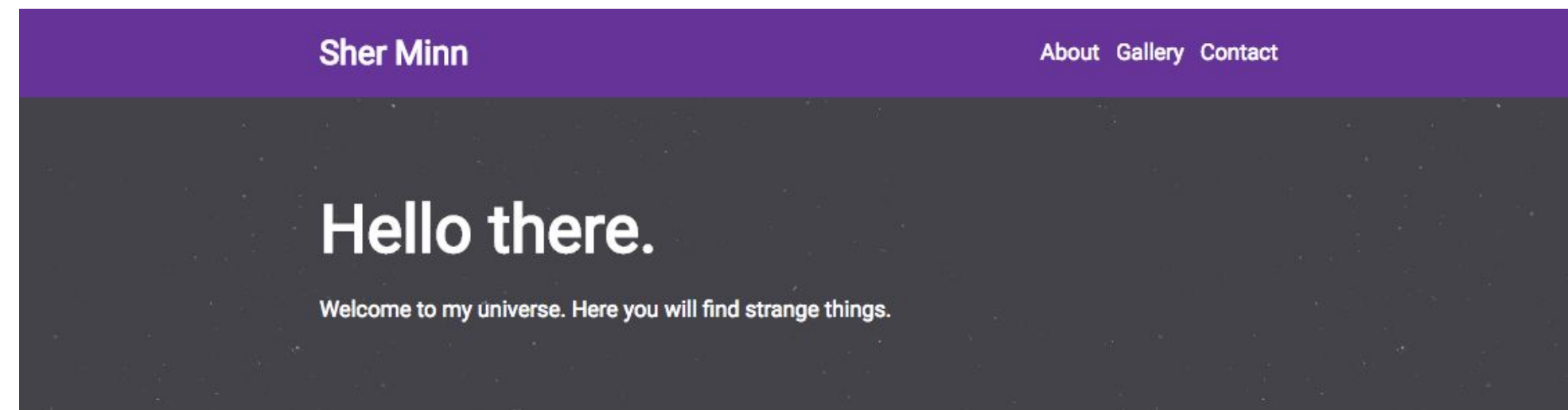


\*CSS versioning is actually a bit different. Further reading:

<https://rachelandrew.co.uk/archives/2016/09/13/why-there-is-no-css4-explaining-css-levels/>



# HTML + CSS



## About

Hi, my name is Sher Minn. I'm a frontend web engineer at Viki where I build features with HTML/CSS and JavaScript.

In my time off, I like creating screensaver art with p5.js. You can find me lurking on Twitter and taking pictures of buildings on Instagram.

## Gallery





# HTML

We're gonna make some content!





# Get Started

## 1. Install Google Chrome



- <https://www.google.com/chrome/browser/features.html>


## 2. Install a text editor

- Sublime Text 3
- <http://sublimetext.com/3>





# Get Started

1. Download & open **my\_website.zip**
2. Drag the **my\_website folder** to your Desktop
3. Open the folder. Double click on **index.html**
4. Browser should open and you should see a page with “Hello there” and some text.
5. Open Sublime Text 
6. In Sublime Text, go to **File > Open Folder**, select the **my\_website folder** and click OK





# Tags

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<!-- meta data goes here -->
```

```
<title> Hello World!</title>
```

```
</head>
```

```
<body>
```

```
<!-- content goes here -->
```

```
    This is my first homepage!
```

```
</body>
```

```
</html>
```

## Tags are those funky things in angle brackets

- HTML code is made out of tags
- Used to 'mark up' content
- Don't appear on the site, only the content in between them do





# Anatomy of Tag I

Opening Tag

Closing Tag

`<title> My First Homepage! </title>`

Content







# Structure of a HTML page

**<!DOCTYPE html>, <html>**

**<head>**

**<body>**





# headings

## Code

```
<h1> Heading 1 </h1>
```

```
<h2> Heading 2 </h2>
```

```
<h3> Heading 3 </h3>
```

```
<h4> Heading 4 </h4>
```

```
<h5> Heading 5 </h5>
```



## Output

# Heading 1

## Heading 2

### Heading 3

#### Heading 4

##### Heading 5



# paragraphs

## Code

```
<p> Hello, my name is  
Sher Minn.</p>
```

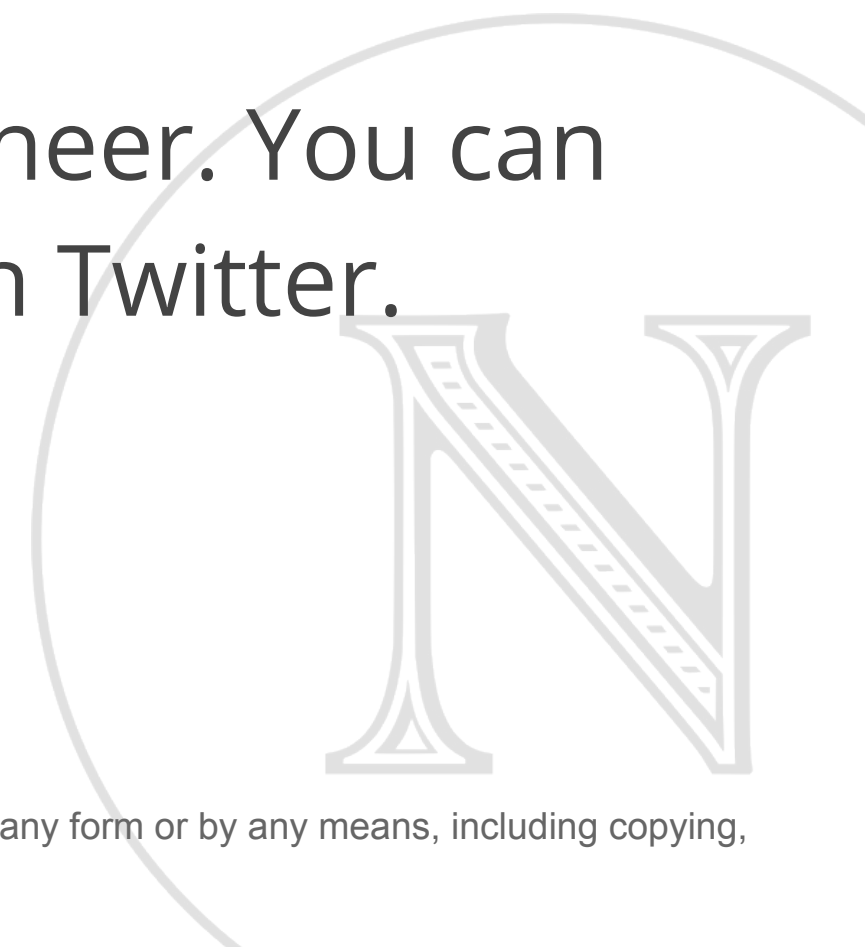
```
<p> I am a web engineer.  
You can often find me on  
Twitter.</p>
```



## Output

Hello, my name is Sher Minn.

I am a web engineer. You can  
often find me on Twitter.





# formatting

```
<p>I am a <em> web developer </em> and  
designer, currently working at <strong> Viki  
</strong>.</p>
```



I am a *web developer* and designer, currently working  
full-time at **Viki**.



# comments

```
<!--I am a comment! -->
```



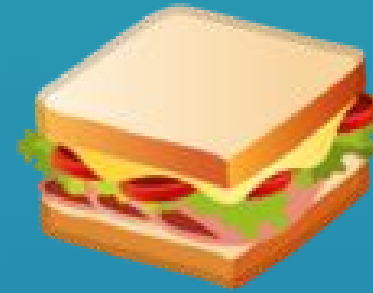
??

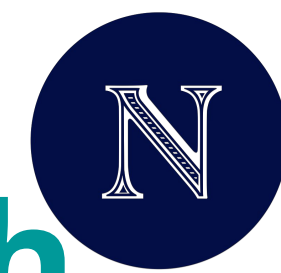
- Comments don't appear on your webpage
- Used for your own reference, e.g. to denote different parts of the page





# Sandwich rules





# 1. Always close your sandwich

## × No-no

<p>

I'm a terrible sandwich

---

<p>

I'm another bad  
sandwich

<p>

## ✓ Yes!

<p>

I'm a tasty sandwich!

</p>







## 2. Keep your fillings inside

### × No-no

<p>

<em> I'm a bad sandwich

</p>

</em>

### ✓ Yes!

<p>

<em>

I'm a tasty sandwich!

</em>

</p>





# Indentation

 <p>

  <em>

   I'm a tasty sandwich!

  </em>

 </p>





# break

```
<p>I am a web developer and designer, currently  
working at Viki. <br/> You can find me on  
Twitter. </p>
```



I am a web developer and designer, currently working at  
Viki.

You can find me on Twitter.





# Anatomy of Tag II - Single Tag

Tag Name



```
<br />
```



Self Closing





# links a.k.a anchors

You can find me on

```
<a href="http://twitter.com"> Twitter.</a>
```

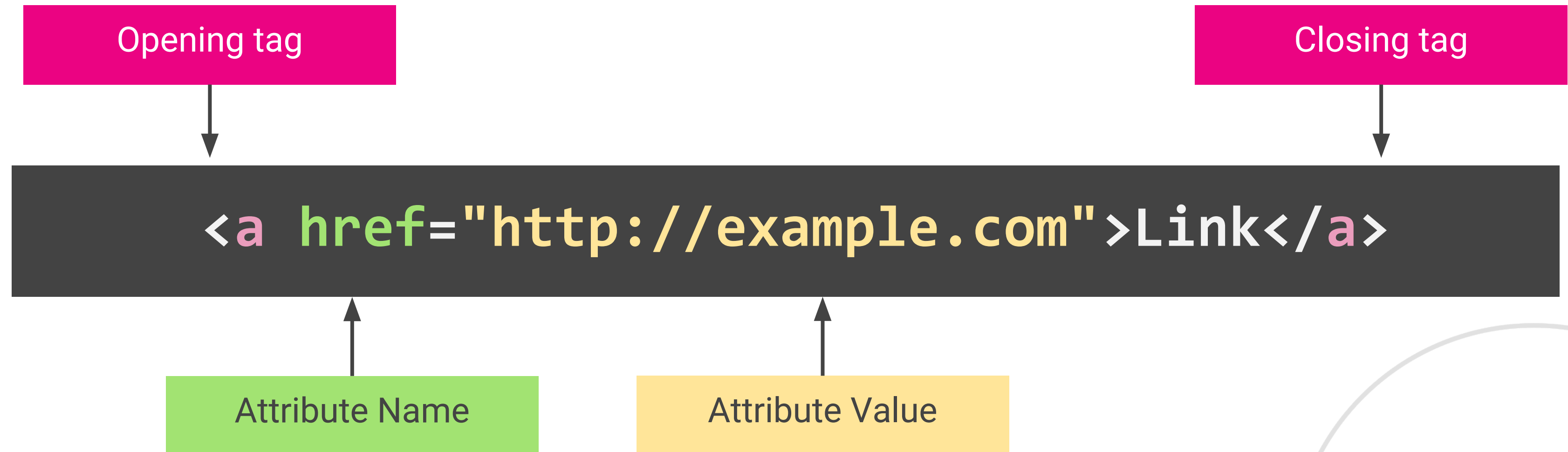


You can find me on [Twitter](http://twitter.com).





# Anatomy of Tag III - Attributes



- Attributes are ways of customizing a tag
- There is an attribute name, and attribute value
- Attributes do not appear on the page

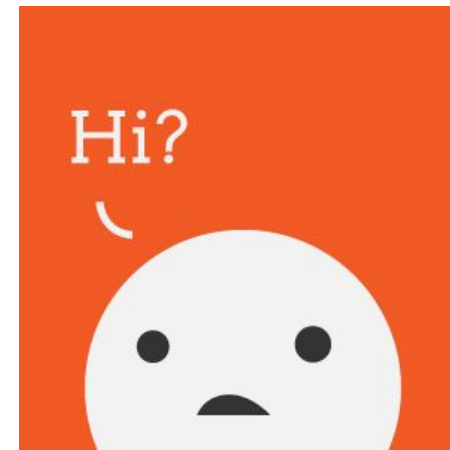




# images - your own

```

```







# images - from a link

```

```



# Need placeholder images?

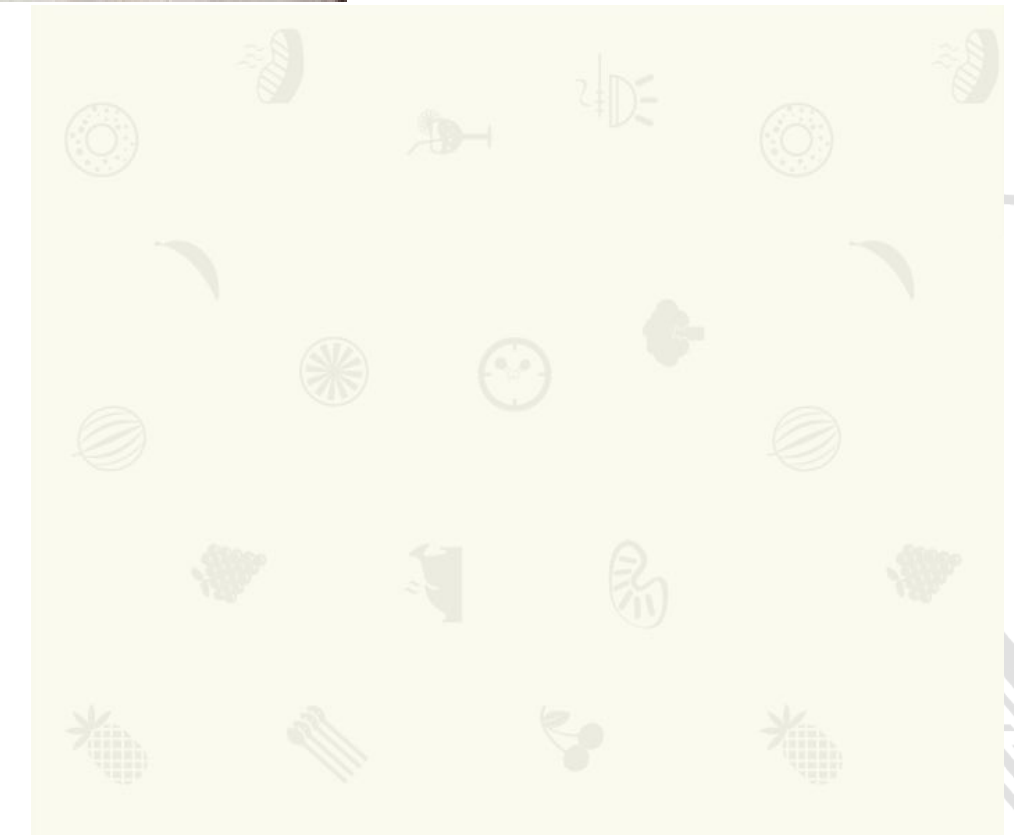
- **Unsplash It**

- <https://unsplash.it/images>



- **Subtle Patterns**

- <https://www.toptal.com/designers/subtlepatterns/>





# Bonus Slide





# Bonus: My Image Is Too Huge!

How would you resize an image in HTML?



Hint: There are attributes you can use. They're called width and height.





## Bonus: Image Links

**How would you make an image a link to something else?**

E.g. clicking on an image of a cake brings you to the Wikipedia page about cake?



Hint: Make a link sandwich with an image filling



# unordered list

## Code

```
<ul>
```

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

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

```
<li>Item 3</li>
```

```
</ul>
```



## Output

- Item 1
- Item 2
- Item 3





# ordered list

## Code

```
<ol>
```

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

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

```
<li>Item 3</li>
```

```
</ol>
```



## Output

1. Item 1

2. Item 2

3. Item 3







# table

## Code

```
<table>
```

```
<tr>
```

```
<td> A </td> <td> B </td>
```

```
</tr>
```

```
<tr>
```

```
<td> C </td> <td> D </td>
```

```
</tr>
```

```
</table>
```



## Output

A	B
C	D





# article, header and sections

## Code

```
<article>
```

```
<header>
```

I'm in a header

```
</header>
```

```
<section>
```

I'm in a section

```
</section>
```

```
</article>
```



## Output

I'm in a header

I'm in a section





# div

## Code

```
<div>
```

just a generic block

```
</div>
```



## Output

just a generic block





# span

## Code

```
<span>
```

```
just a generic line
```

```
</span>
```



## Output

```
just a generic line
```





# More Tags

**There are about 100+ HTML tags**

**Complete list of HTML tags : [W3Schools](https://www.w3schools.com/html/html_tags.asp)**



# Bonus: Youtube video

How would you add a Youtube video on your page?



Hint:

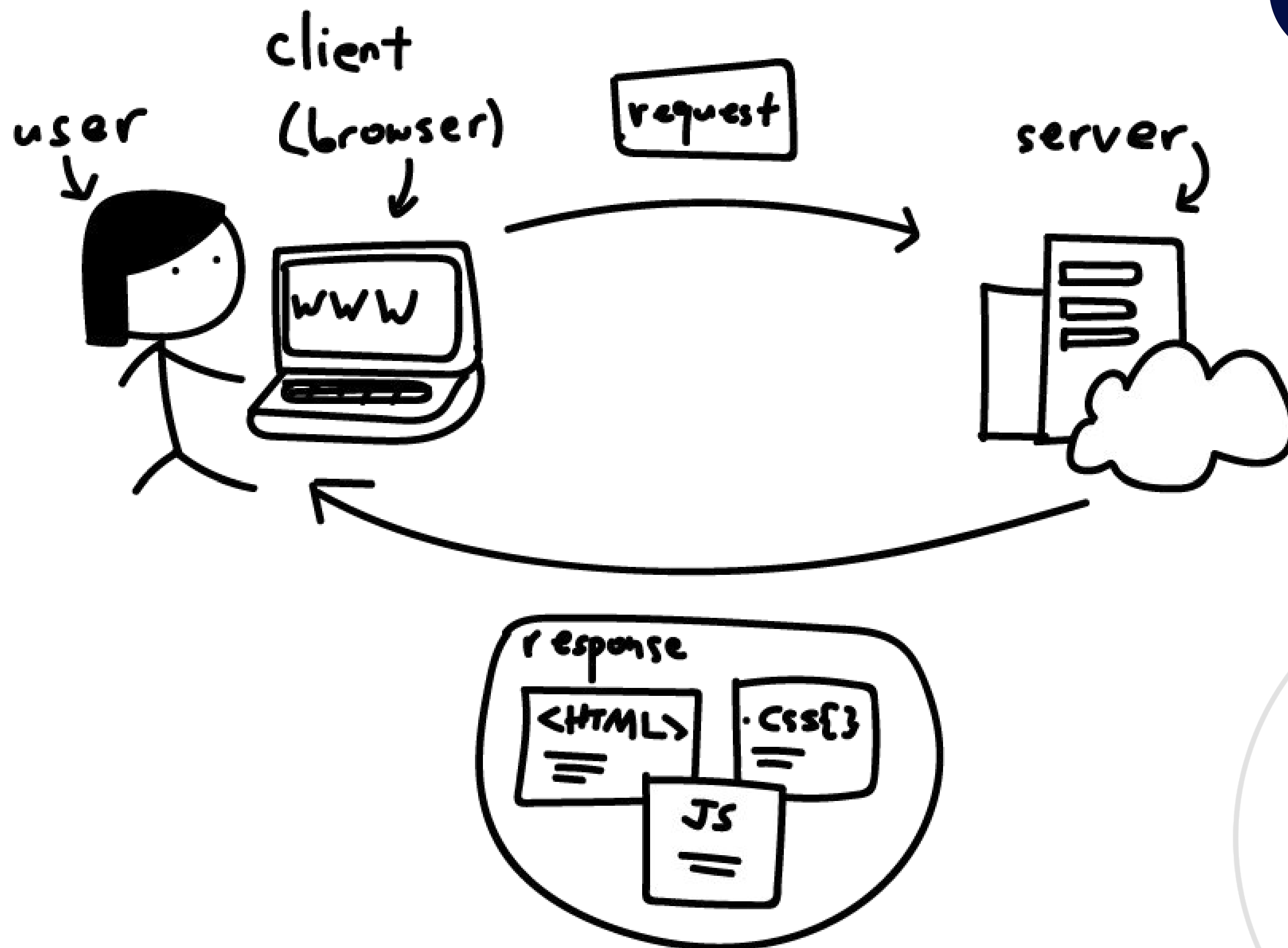
1. It's just another HTML tag. Go to a Youtube video, click on 'Share' then 'Embed'.
2. You will need to add 'http:' in front of the src attribute. Wanna know why? Ask a mentor!



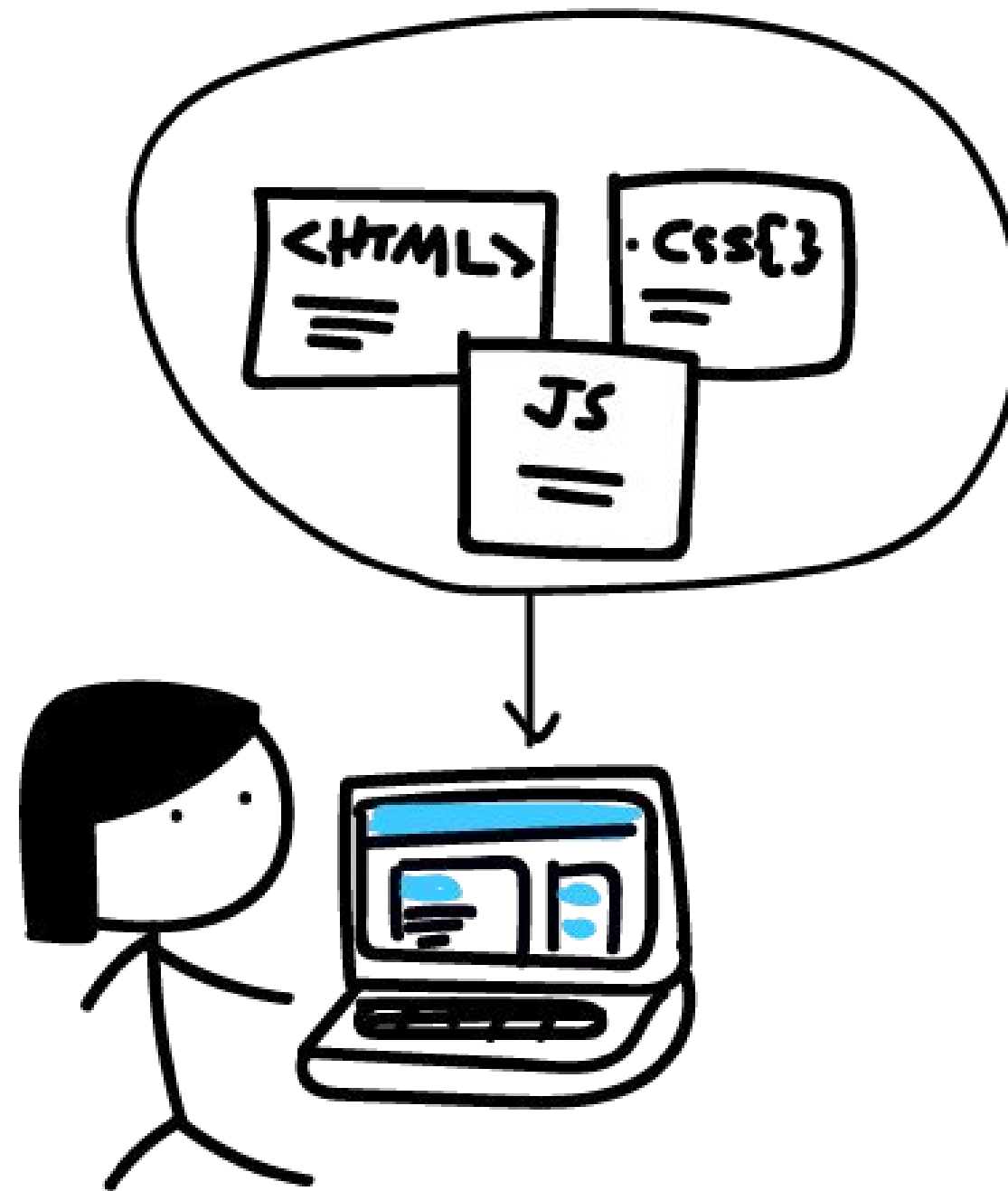
# What is the web?

...and how does it work?











# Recap

- What is HTML and CSS?
- HTML tags
  - Tags
  - Self-closing
  - Attributes
- Sandwich rules
- HTML tags
  - h1, p, br, em, strong, img, a, ul, ol, table
- How the web works





NEXT  
ACADEMY

# The End

Thank you for coming!

