

# Welcome to the second session of SheCode!

If you haven't done so already, sign up for a CodeHS account at:

www.codehs.com/go/A9A5D

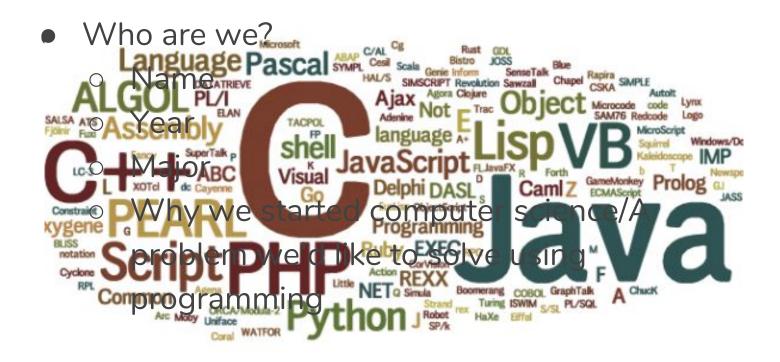
Raise your hand for help!

### **SheCode Session 2**

HTML/CSS



#### **Last Week Recap**





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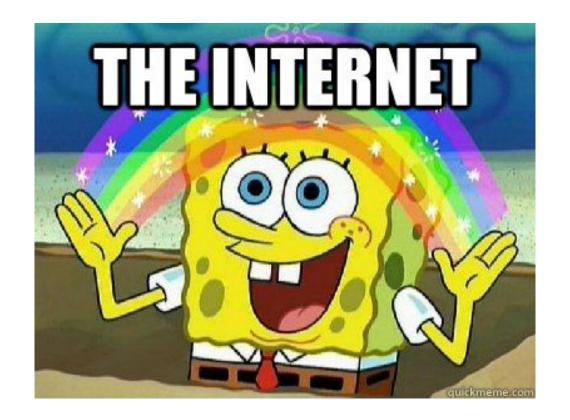
- What is Scratch?
  - Visual programming language



```
clicked
say Watch me dance for 2 secs
repeat (10)
  move 10 steps
  play drum 1 for 0.25 beats
  move (-10) steps
  play drum 47 for 0.25 beats
when right arrow v key pressed
change color v effect by 25
```

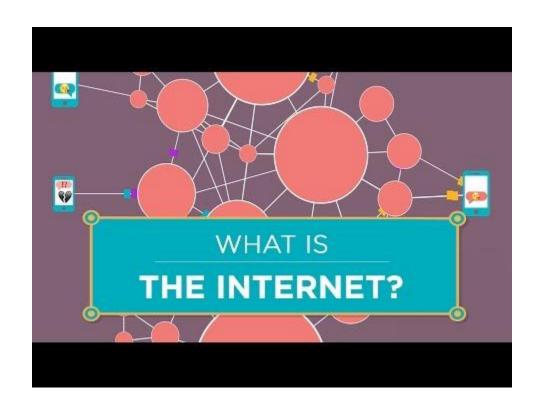


#### What is the Internet?





#### What is the Internet?





#### Ice Breaker -5m

Introduce yourself to your table (name, grade, hobbies)

Come up with one big way that the Internet has changed the world. Be ready to share! (there will be candy)



#### Front-end Development

- Means writing the code that determines how the content of a website is displayed
  - Includes basically anything the user can interact with (images, text, buttons, etc)
  - Uses 3 main languages: HTML. CSS, Javascript
- Back-end development (which we won't be doing)
  has to do with the behind-the-scenes work such as
  databases and servers



#### What is HTML? CSS? JS?

HTML (hypertext markup language)

- marks the content up into different structural types, like paragraphs, blocks, lists, images, tables, forms, comments etc.
- the actual content of web page ("bones")



#### What is HTML? CSS? JS?

CSS (cascading style sheets)

- tells the browser how each type of element should be displayed, which may vary for different media (like screen, print or handheld device)
- style of web page ("skin")



#### What is HTML? CSS? JS?

JavaScript (we're not programming in this)

- tells the browser how to change the web page in response to events that happen (like clicking on something, or changing the value in a form input)
- any animations, moving things ("muscles")



#### What is HTML?



# **CodeHS HTML Course**



#### **CodeHS HTML Lesson 1**

- HTML is essentially just normal text + "markup tags"
  - These tags tell the browser how to display the text
- HTML tags:
  - Enclosed in angle brackets <h1>
  - The tags themselves are not displayed on the web page
  - Tell the browser how text should be displayed



# CodeHS HTML Lesson 1 cont. Hello, world!

Tag structure: Opening tag Text/Content Closing Tag

<h1>Hello, world!</h1>



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



```
<!DOCTYPE html>
<html>
   <head>
       <title>My First Document</title>
   </head>
   <body>
       <h1>My First Heading</h1>
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</html>
```



#### Important points

- Content goes between opening and closing tags
- Tags can be nested (go inside other tags)
- Indenting the code shows the structure of the tags



### CodeHS Lesson 2. Examples + Exerci

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



#### CodeHS Lesson 3: Formatting Text

- So far, we've built standard web pages, but now it's time for some <i>style</i></i></i></i></i>
  - Using HTML formatting
  - Tags that let us format text on our web pages



### The Tag

- Tag Paragraph of text
  - Gives an automatic newline after a
  - Compare:

Potato

Tomato

Potato

Tomato



### The Heading Tag

<h1>This</h1>	is	an	h1	This is an h1
<h2>This</h2>	is	an	h2	This is an h2
<h3>This</h3>	is	an	h3	This is an h3
<h4>This</h4>	is	an	h4	This is an h4
<h5>This</h5>	is	an	h5	This is an h5
<h6>This</h6>	is	an	h6	This is an h6





- Tag <i> Italicized text
- Tag <b> -Bolded text
- <i>Potato</i>
- <b>Tomato</b>



### The <hr>> Tag and <br>> Tag</br>

- Tag <hr> Horizontal Rule (line across screen)
  - No closing tag
- Tag <br >br > -Line Break (new line)
  - No closing tag

<hr>

<br>

#### **Prediction**



>

P. Sherman

42 Wallaby Way

Sydney, Australia

#### **Prediction**



>

P. Sherman<br>

42 Wallaby Way<br>

Sydney, Australia<br>



#### **Prediction**

>

This is <i><b>very important!</b></i>



## **Review of Formatting Tags**

>	paragraph <i>Italic</i>	
<i>&gt;</i>		
<b></b>	Bold	
<hr/> >	horizontal rule	
	Line Break	
<h1>,<h2><h6></h6></h2></h1>	headings (h1 = largest, h6 = smallest)	



# Explore Lesson 3 Example + Exercise

Raise your hand for help from a TA!

# A few more HTML tags



#### Links: the <a> tag

- Take us to other web pages
- Normally appear blue with an underline
- Links need to specify the text to display and the address where the link should take you
  - Do this by adding an attribute to the <a> tag:

<a href="https://google.com">DISPLAYED TEXT</a>



### Images: The <img> Tag

No closing tag

```
<img
src="https://https://1funny.com/wp-content/uploads/2012/01/
kitten-shoes.jpg">
<img
src="https://https://1funny.com/wp-content/uploads/2012/01/ki
tten-shoes.jpg" width="100px" height="100px">
```



#### Commenting

- Good practice because you WILL forget what the code you wrote represents sometimes (also allows others to read your code more easily)
- Put anywhere in html file:

<!-- Hi, I'm a comment that won't show up in the browser at all because I'm awesome. -->



## So that was a lot of things. Let's rev

- In HTML, there are different tags that let us format our text in different ways
  - Most of the time, we need an opening tag, text,
     and a closing tag: Paragraph
- The tags can have attributes themselves in the case of images and links:
  - o <a href="https://www.google.com">Google</a></a>

## Break:) Grab some food!



### Starting repl.it project

https://repl.it/



#### Website project



It's time to get to work making your own websites! Be creative, you can make a website about almost anything! Some ideas:

- An autobiography
- A biography/tribute page
- A news/sports site
- The possibilities are endless!

If you get stuck or confused, check out the HTML lessons on the web design course on www.codehs.com, https://www.tutorialspoint.com/html/html\_tags\_reference.htm, or https://www.w3schools.com/html/html\_basic.asp.



#### What is CSS?



# Next SheCode 10/29

See you then!