

# HTML

## First Things First...

... write a function which takes a string and returns it written backwards. **Log the result to the console**

# the Master Course

{C0DENATION}

# Web Technologies

## HTML Introduction

{ CŲDENATION }

# Learning Objectives

**To look at how the web works**

**To explore what HTML is and what it's used for**

**To explore what HTML elements are and be able to write your own.**

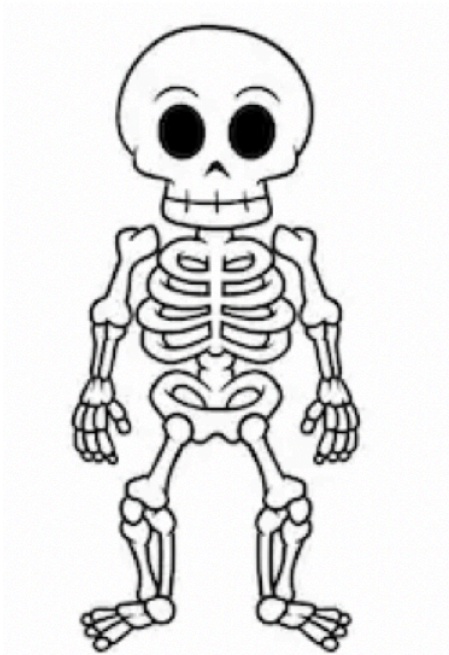
# The Triad

...of **cornerstone technologies** for the web

HTML



# HTML



HTML

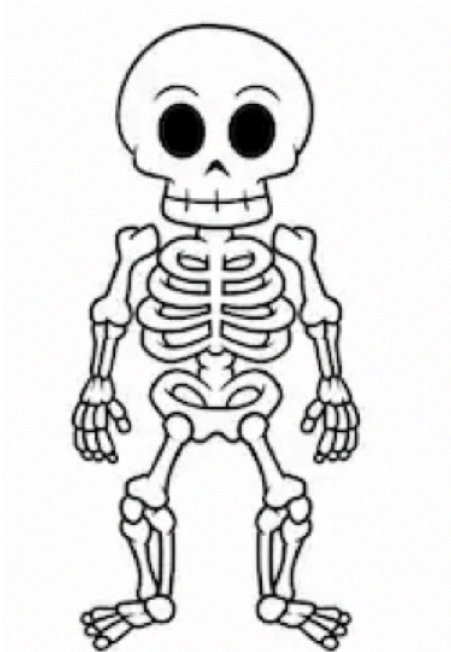


HTML + CSS



HTML+CSS+JavaScript

# HTML



HTML

## HTML...

... is used for **coding the content of webpages**. It has been around since the early 90's.

# CSS



HTML + CSS

## CSS...

... is the language used to **style websites**. It defines the visual representation of the content.



HTML

**HTML is constructed using...**  
**ELEMENTS**

JS

**Headings**

**Paragraphs**

**Images**

**Anchors**

**Lists**

**And many more!**



# HTML Elements

HTML

**<tagname>**Some content**</tagname>**



# Tags

... when a HTML document is read, it is the element tags which **determine the type of content**

HTML



Paragraph Tag

## A quick note...

... some HTML elements **do not need a closing tag** as they are there to place standalone elements.

```
<br>  
<img>
```

HTML

**Lets look at some of  
the basics**



# Headings

HTML

```
<h1>Heading 1</h1>  
<h2>Heading 2</h2>  
<h3>Heading 3</h3>  
<h4>Heading 4</h4>  
<h5>Heading 5</h5>  
<h6>Heading 6</h6>
```

**Heading 1**

**Heading 2**

**Heading 3**

**Heading 4**

**Heading 5**

**Heading 6**

# Paragraphs

# HTML

**<p>**

Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet. Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet. Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet.

**</p>**

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# Unordered List

```
<ul>  
  <li>Coffee</li>  
  <li>Tea</li>  
  <li>Hot Chocolate</li>  
</ul>
```

- Coffee
- Tea
- Hot Chocolate

# Ordered List

```
<ol>  
  <li>Coffee</li>  
  <li>Tea</li>  
  <li>Hot Chocolate</li>  
</ol>
```

1. Coffee
2. Tea
3. Hot Chocolate

# HTML

Lets look at some...

# Webpage Structure

# Lets create a new HTML page

HTML

Create a **new folder** where you to store your new project.

Give a **name to this folder** (small letters, no space, descriptive)

Open up this folder in **VSCode**

# Try This

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Title</title>
</head>
<body>
  ...Webpage contents...
</body>
</html>
```

## HTML

Open up VSCode and create a new file called **'index.html'**.

At the top of the file type in an **exclamation mark and press shift.**

You will get something called **HTML Boilerplate**

# Let's look at this...

# HTML

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Title</title>
</head>
<body>
  ...Webpage contents...
</body>
</html>
```



HTML

**Lets look at HTML**  
... in the wild!

# HTML

## Hang on...

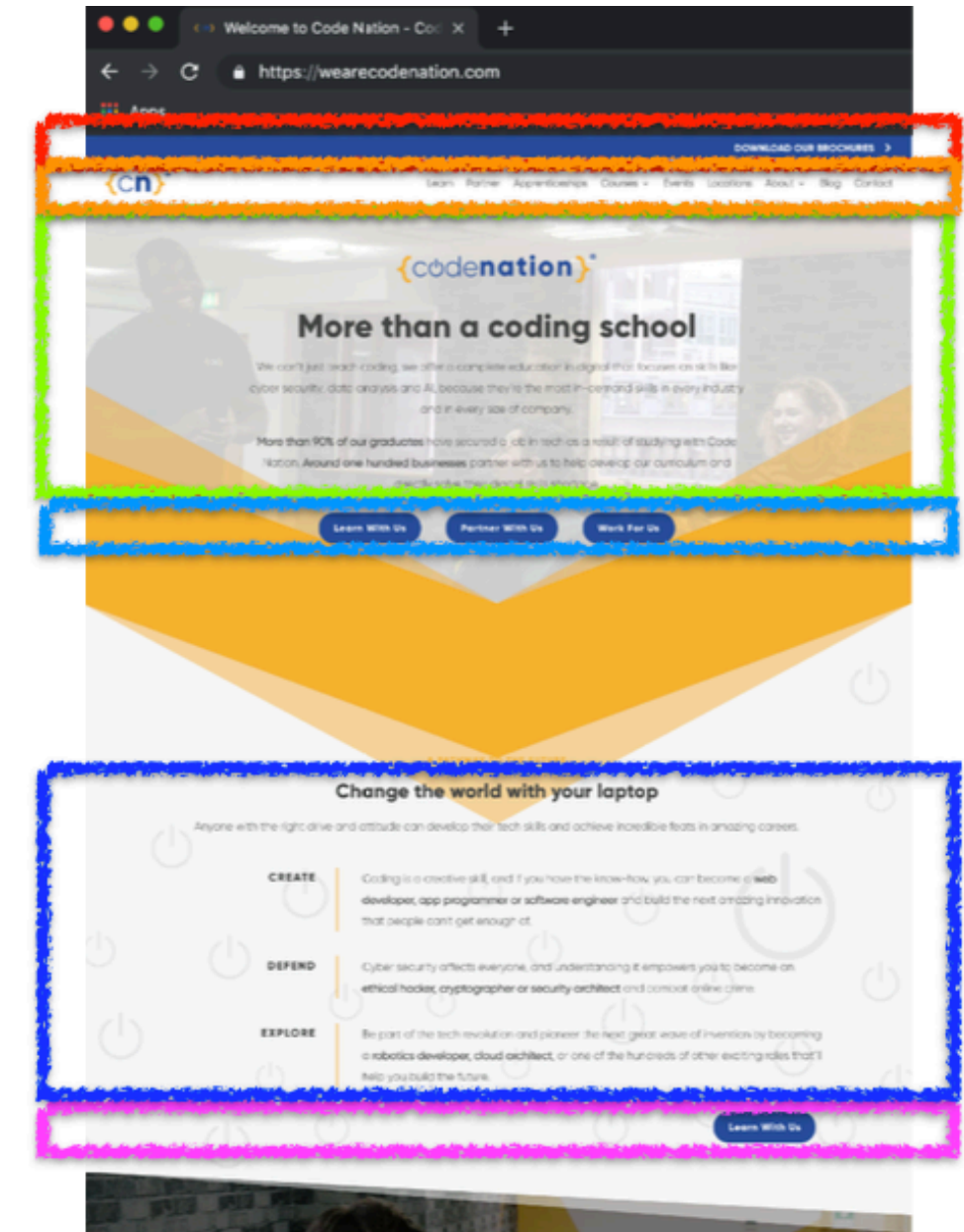
.. notice how we saw a lot of `<div>` tags?



# HTML

## Divs are used...

... to **break up your HTML** into sections





# HTML

## Divs can also...

... be **inside** other divs to help you  
organise your structure easier



# Learning Objectives

**To look at how the web works**

**To explore what HTML is and what it's used for**

**To explore what HTML elements are and be able to write your own.**

# Activity

HTML

Create a **HTML only webpage** (no styling) about yourself which includes the following sections.

- > A page title/heading
- > Include an image (of anything)
- > Subheadings for four different sections
- > A section that lists your favourite food (**ul**)
- > A section that ranks your favourite of something (**ol**)
- > A section which includes a paragraph on what made you interested in joining Code Nation
- > A section which includes your targets and what progress you're making towards them
- > A footer section with two links to different webpages

# For tomorrow...

... take a look at **CSS**.

# JS

<https://developer.mozilla.org/en-US/docs/Web/CSS>

<https://www.youtube.com/watch?v=XPv4EeB0PJ8>

What does **CSS stand for**?

Can you research any **CSS Properties**?



HTML

**Extra Reading!**

# Formatting Text

# HTML

```
<em>Emphasized text</em>
<br>
<strong>Strong text</strong>
<br>
<code>A piece of computer code</code>
<br>
<samp>Sample output from a computer
program</samp>
<br>
<kbd>Keyboard input</kbd>
<br>
<var>Variable</var>
```

*Emphasized text*

**Strong text**

A piece of computer code

Sample output from a computer program

Keyboard input

*Variable*

# Formatting Text

# HTML

`<em>Emphasized text</em>`

*Emphasized text*

`<br>` `<br>` for line break, no `</br>` needed

`<strong>Strong text</strong>`

computer code

`<br>`

sample output from a computer program

`<code>A piece of computer code</code>`

Keyboard input

`<br>`

Variable

`<samp>Sample output from a computer  
program</samp>`

`<br>`

`<kbd>Keyboard input</kbd>`

`<br>`

`<var>Variable</var>`



# Quotation

HTML

```
<q>Inline quote</q>
```

```
<blockquote>Blockquote</blockquote>
```

“Inline quote”

Blockquote

# Nested List

HTML

```
<ul>
  <li>Coffee</li>
  <li>Tea
    <ul>
      <li>Black tea</li>
      <li>Green tea</li>
    </ul>
  </li>
  <li>Milk</li>
</ul>
```

- Coffee
- Tea
  - Black tea
  - Green tea
- Milk



# HTML

## Use MDN!

<https://developer.mozilla.org/en-US/docs/Web/HTML/Element>

<https://htmlcheatsheet.com/>