

the Master Course

{C0DENATION}

Web Technologies

HTML Introduction

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HTML

Lets look at GIT...

...we had to do it at some point

HTML

First Things First...

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

Learning Objectives

To understand how the web work

To understand what HTML is and what it's used for

To understand 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

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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>

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</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?

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HTML

Divs are used...

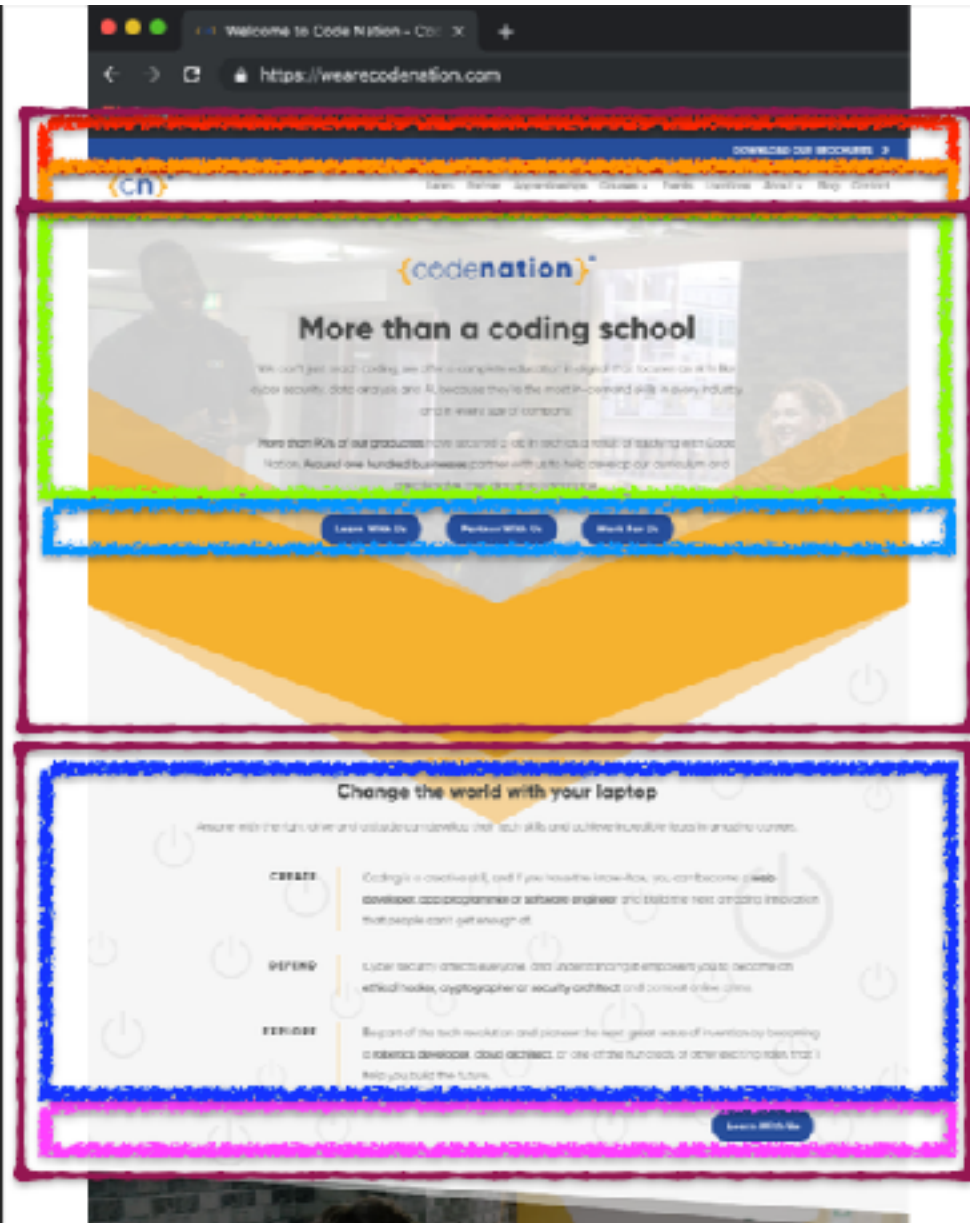
... to **break up your HTML** into sections



HTML

Divs can also...

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



Learning Objectives

To understand how the web work

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To understand 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**?

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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

`Emphasized text`

Emphasized text

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

`Strong text`

computer code

`
`

sample output from a computer program

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

Keyboard input

`
`

Variable

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

`
`

`<kbd>Keyboard input</kbd>`

`
`

`<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/>