



{codenation}<sup>®</sup>

# Learning Objectives

- To understand what CSS is and what it's used for
- To understand a few CSS syntax are and be able to write your own

A large, stylized logo for 'css' is centered on a yellow background. The letters are formed by thick, white, curved bands that overlap each other. The 'c' is a wide circle, the 's' is a narrow S-shape, and the 's' is another wide circle. The overlapping creates a sense of depth and motion.

css

**Cascading Style Sheets is the language used to style websites.**

**It defines the visual representation of the content. For example colour, margins, borders, backgrounds and position in the page.**



# How do we add CSS?

# Three ways to insert CSS

- Inline style
- Internal style sheet
- **External style sheet**

\*we will use external style sheet so it's tidier.

# Adding an External Style Sheet

- Create a new file and name it **main.css**
- Add the path/link of your css file inside the html file, inside the head tag

# Inside the index.html file

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <link rel="stylesheet" type="text/css" href="main.css">
  <title>Website title</title>
</head>
<body>
  Content here...
</body>
</html>
```

# Inside the index.html file

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <link rel="stylesheet" type="text/css" href="main.css">
    <title>Website title</title>
</head>
<body>
    Content here...
</body>
</html>
```

Make sure the path to the css file is correct

# File Structure

- index.html
- main.css



# A little tip!

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## More than a coding school

We don't just teach coding, we offer a complete education in digital that focuses on skills like cyber security, data analysis and AI, because they're the most in-demand skills in every industry and in every size of company.

More than 90% of our graduates have secured a job in tech as a result of studying with Code Nation. Around one hundred businesses partner with us to help develop our curriculum and directly solve their digital skills shortage.

Learn With Us Partner With Us Work For Us

A PATHWAY TO THE FUTURE

### Change the world with your laptop

Anyone with the right drive and attitude can develop their tech skills and achieve incredible feats in amazing careers.

**CREATE**

Coding is a creative skill, and if you have the know-how, you can become a **web developer, app programmer or software engineer** and build the next amazing innovation that people can't get enough of.

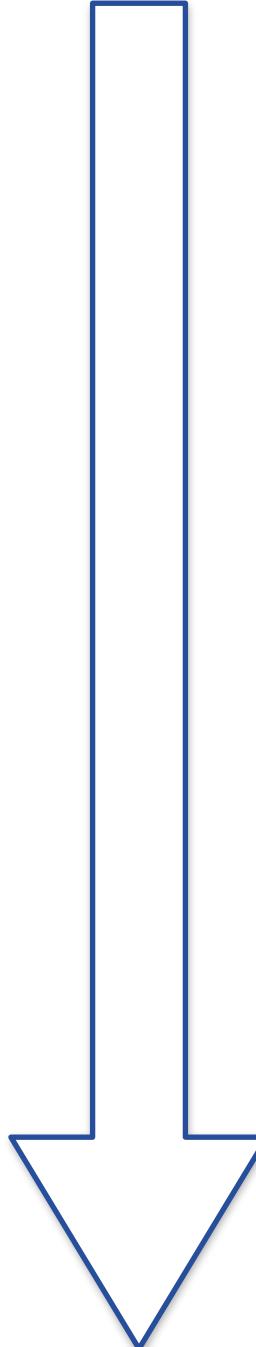
**DEFEND**

Cyber security affects everyone, and understanding it empowers you to become an **ethical hacker, cryptographer or security architect** and combat online crime.

**EXPLORE**

Be part of the tech revolution and pioneer the next great wave of invention by becoming a **robotics developer, cloud architect**, or one of the hundreds of other exciting roles that'll help you build the future.

Learn With Us

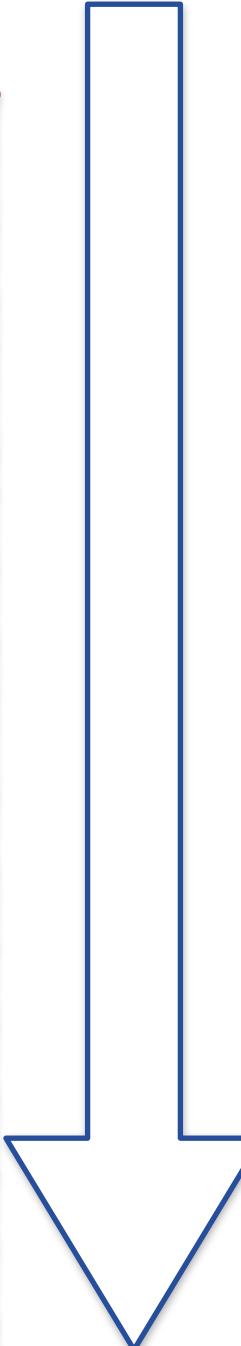


**Always start from  
top to bottom  
when doing any  
styling**





A screenshot of the Code Nation website homepage. The page features a dark header with a blue bar containing the text 'DOWNLOAD OUR BROCHURES'. Below the header is a navigation menu with links to 'Learn', 'Partner', 'Apprenticeships', 'Courses', 'Events', 'Locations', 'About', 'Blog', and 'Contact'. The main content area has a background image of two people in a tech environment. At the top left is the 'codenation' logo. Below it, the text 'More than a coding school' is displayed. A paragraph follows, stating: 'We don't just teach coding, we offer a complete education in digital that focuses on skills like cyber security, data analysis and AI, because they're the most in-demand skills in every industry and in every size of company.' Another paragraph below says: 'More than 90% of our graduates have secured a job in tech as a result of studying with Code Nation. Around one hundred businesses partner with us to help develop our curriculum and directly solve their digital skills shortage.' Three blue buttons labeled 'Learn With Us', 'Partner With Us', and 'Work For Us' are visible. The text 'A PATHWAY TO THE FUTURE' appears above a section titled 'Change the world with your laptop'. A subtext states: 'Anyone with the right drive and attitude can develop their tech skills and achieve incredible feats in amazing careers.' Three sections follow: 'CREATE' (Coding is a creative skill, etc.), 'DEFEND' (Cyber security affects everyone, etc.), and 'EXPLORE' (Be part of the tech revolution and pioneer the next great wave of invention, etc.). Each section includes a 'Learn With Us' button. The footer contains a 'Learn With Us' button and a 'Contact' link.



# Think about...

# The whole body: Font Color



A screenshot of the Code Nation website homepage. The page has a dark header with a blue navigation bar containing links like 'Learn', 'Partner', 'Apprenticeships', etc. A large orange button at the top right says 'DOWNLOAD OUR BROCHURES'. Below the header is a banner with the text 'More than a coding school' and a subtext about their comprehensive education in digital skills. Three blue buttons at the bottom of the banner are labeled 'Learn With Us', 'Partner With Us', and 'Work For Us'. The main content area features a large yellow graphic with the text 'A PATHWAY TO THE FUTURE' and 'Change the world with your laptop'. It highlights three paths: 'CREATE' (coding), 'DEFEND' (cyber security), and 'EXPLORE' (other tech roles). Each path has a brief description and a small icon. A large blue arrow points downwards from the top of the page towards the main content area.

# Think about...

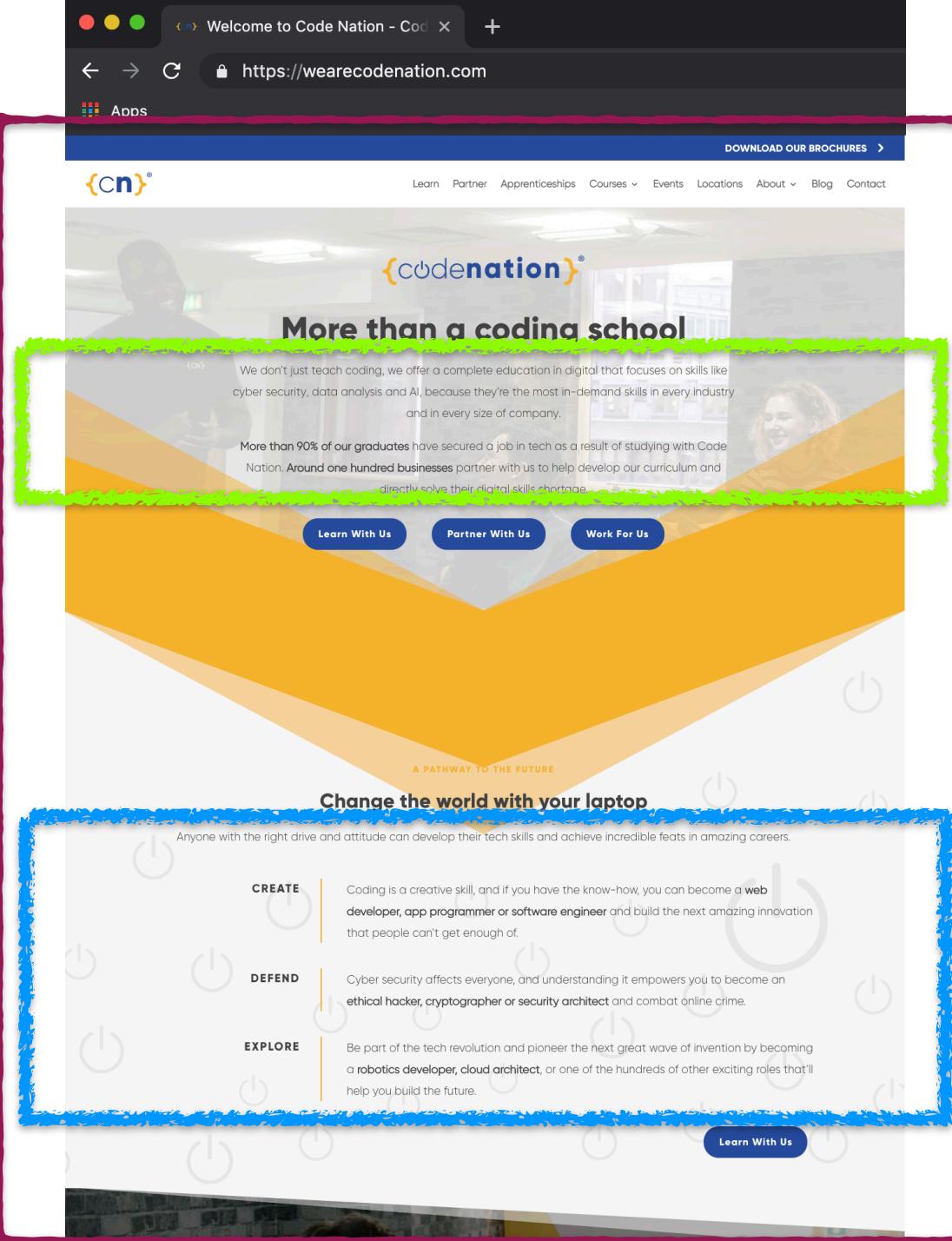
# The menus



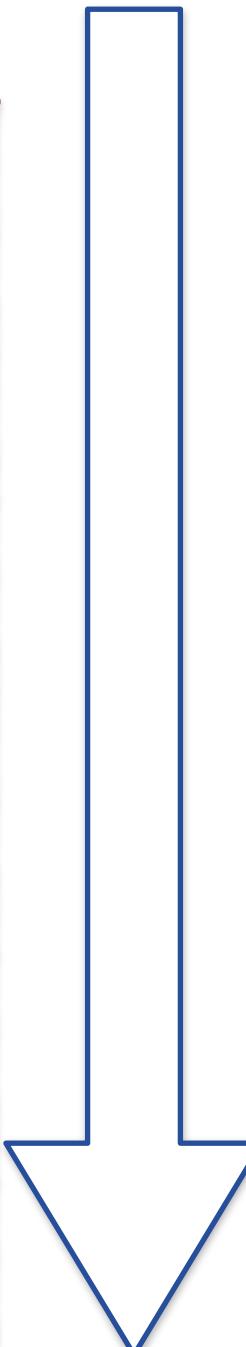
A screenshot of the Code Nation website homepage. The page has a dark header with a navigation bar and a main content area with a yellow and white background. A large red hand-drawn style box highlights the heading "More than a coding school". Another orange hand-drawn style box highlights the heading "Change the world with your laptop". The main content includes sections for "CREATE", "DEFEND", and "EXPLORE", each with a power icon and descriptive text. A large blue arrow points downwards from the highlighted text on the left towards the "Think about..." section on the right.

# Think about...

# Headings...



A screenshot of the Code Nation website homepage. The page features a large banner with the text "More than a coding school" and "Change the world with your laptop". Below the banner, there are three main sections: "CREATE", "DEFEND", and "EXPLORE", each with a brief description and a "Learn With Us" button. The entire screenshot is framed by a thick red border.



# Think about...

# All paragraphs...



**codenation**

## More than a coding school

We don't just teach coding, we offer a complete education in digital that focuses on skills like cyber security, data analysis and AI, because they're the most in-demand skills in every industry and in every size of company.

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[Learn With Us](#) [Partner With Us](#) [Work For Us](#)

A PATHWAY TO THE FUTURE

### Change the world with your laptop

Anyone with the right drive and attitude can develop their tech skills and achieve incredible feats in amazing careers.

#### CREATE

Coding is a creative skill, and if you have the know-how, you can become a [web developer](#), [app programmer](#) or [software engineer](#) and build the next amazing innovation that people can't get enough of.

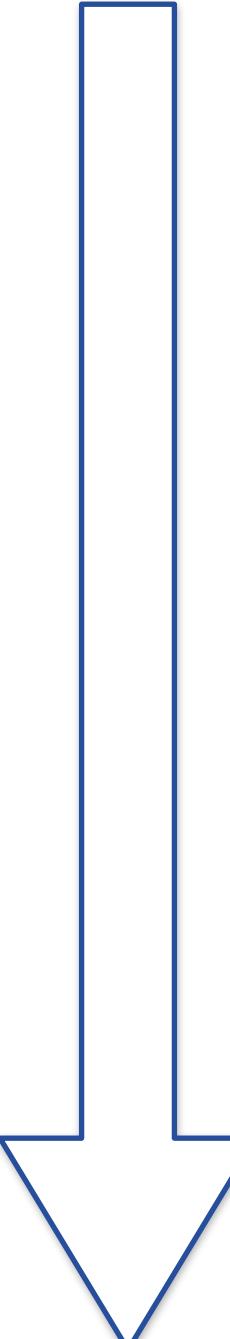
#### DEFEND

Cyber security affects everyone, and understanding it empowers you to become an [ethical hacker](#), [cryptographer](#) or [security architect](#) and combat online crime.

#### EXPLORE

Be part of the tech revolution and pioneer the next great wave of invention by becoming a [robotics developer](#), [cloud architect](#), or one of the hundreds of other exciting roles that'll help you build the future.

[Learn With Us](#)



# Think about...

# The first section

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Learn With Us Partner With Us Work For Us

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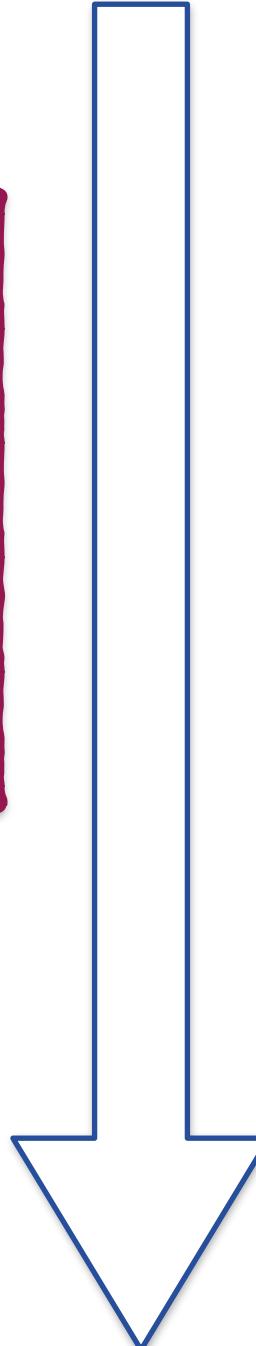
**EXPLORE**

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Learn With Us



Think about...  
The logo





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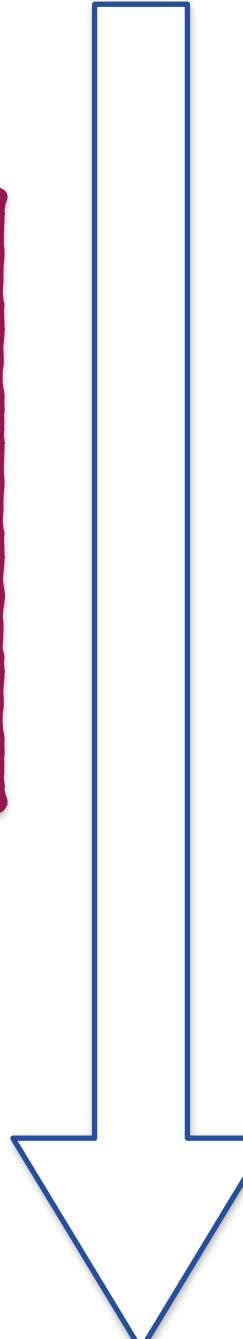
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[Learn With Us](#)

Think about...  
The heading





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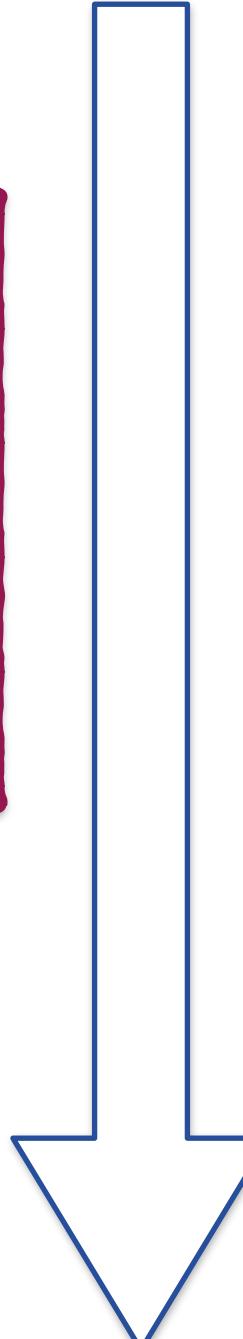
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[Learn With Us](#)

Think about...  
**The paragraph**

[Learn](#) [Partner](#) [Apprenticeships](#) [Courses](#) [Events](#) [Locations](#) [About](#) [Blog](#) [Contact](#)

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**CREATE**

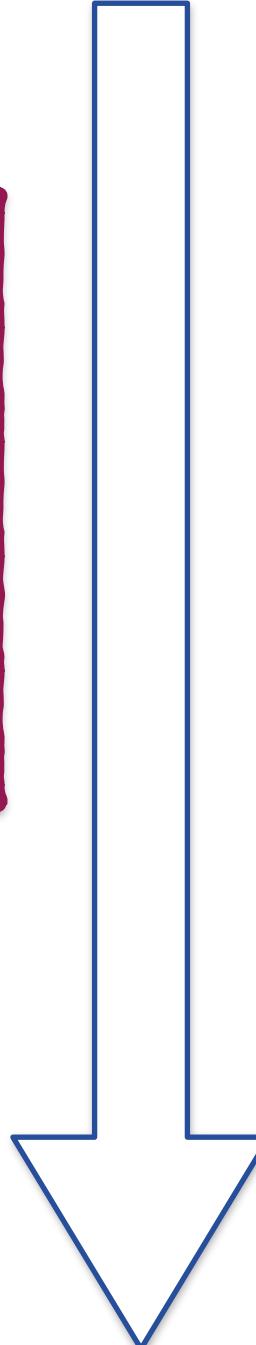
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[Learn With Us](#)

# Think about...

# The buttons

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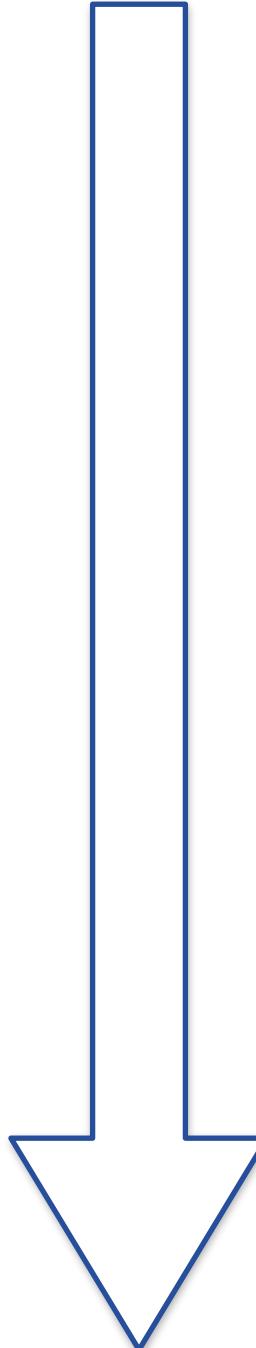
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Learn With Us



# and so on...





# CSS syntax

# CSS Syntax

```
h1 {  
    color: red;  
    font-size: 12px;  
}
```

```
selector {  
    property: value;  
    property: value;  
}
```



# CSS Selectors

# Element Selector

```
h1 {  
    color: red;  
    font-size: 12px;  
}
```

```
elementtag {  
    property: value;  
    property: value;  
}
```



## HTML

```
1 <h1>Section 1</h1>
2 <h2>Section 2</h2>
3 <p>Section3</p>
```



## CSS

```
1 h1 {
2   color: red;
3 }
4
5 h2 {
6   color: red;
7 }
```



# Section 1

## Section 2

Section3

# CSS Selectors

They are used to find the html elements based on their **tag name, id, class, attribute**, etc.

Styling can also be applied to the whole html.

# The whole HTML!

```
* {  
    background-color: aliceblue;  
    font-size: 12px;  
}  
  
* {  
    property: value;  
    property: value;  
}
```

The screenshot shows a code editor interface with two panels: 'HTML' on the left and 'CSS' on the right. The 'HTML' panel contains the following code:

```
1 <h1> This looks awful but I'm just using it  
2   to illustrate a point</h1>  
3 <h2>This is my second heading.</h2>  
4 <div>  
5   <p>  
6     This is the main body of my truly awful  
7     blog.  
8   </p>  
9 </div>
```

The 'CSS' panel contains the following code:

```
1 * {  
2   background-color: blue;  
3   font-size: 24px;  
4 }  
5
```

This looks awful but I'm just using it to illustrate a point

This is my second heading.

This is the main body of my truly awful blog.

**What if we want to select  
things a bit differently?**

# Class Selector

```
.aboutme {  
    background-color: firebrick;  
}
```

```
.classname {  
    property: value;  
}
```

\* same class name can be applied in different parts of the page

# Defining in HTML - classes

-In CSS:

```
.large {  
    font-size: 50px;  
}
```

-In HTML:

```
<p class="large">Hello World</p>
```

# Defining in HTML - classes

The image shows a code editor interface with two tabs: 'HTML' on the left and 'CSS' on the right. The 'HTML' tab contains the following code:

```
1 <div>
2 <h1>Title here</h1>
3 <p class = "large">
4   Lorem ipsum dolor sit amet
      consectetur adipisicing elit. Modi
      dignissimos, voluptatem soluta
      harum nulla doloribus itaque nisi
      praesentium odit, veritatis,
      dolore sint debitis corporis
      magnam suscipit
5 </p>
6 <p>
7   Lorem ipsum dolor sit amet
      consectetur adipisicing elit.
```

The line '3 <p class = "large">' is highlighted with a red box. The 'CSS' tab contains the following code:

```
1 .large {
2   font-size: 50px;
3 }
```

The entire block of CSS code is highlighted with a red box.

# Defining in HTML - classes

Title here

**Lorem ipsum dolor sit amet consectetur adipisicing elit. Modi dignissimos, voluptatem soluta harum nulla doloribus itaque nisi praesentium odit, veritatis, dolore sint debitis corporis magnam suscipit**

Lorem ipsum dolor sit amet consectetur adipisicing elit. Itaque quibusdam iusto consequatur veritatis dolore aspernatur, ut doloribus! Impedit, velit consectetur, dolores cum laudantium ipsum quibusdam veniam tempora facilis vero commodi!

# Defining in HTML - classes

Title here

Lore ipsum dolor sit amet consectetur adipisicing elit. Modi dignissimos, voluptatem soluta harum nulla doloribus itaque nisi praesentium odit, veritatis, dolore sint debitis corporis magnam suscipit

Lore ipsum dolor sit amet consectetur adipisicing elit. Itaque quibusdam iusto consequatur veritatis dolore aspernatur, ut doloribus! Impedit, velit consectetur, dolores cum laudantium ipsum quibusdam veniam tempora facilis vero commodi!

<h1>

<p class="large">

<p>



## HTML

```
1 <h1 class="makeMeRed">Section 1</h1>
2 <h2 class="makeMeRed">Section 2</h2>
3 <p>Section3</p>
```



## CSS

```
1 .makeMeRed {
2   color: red;
3 }
```

Section 1

Section 2

Section3

# Defining in HTML - classes

- Can have more than one style so add as many as required
- In HTML:

```
<p class="center large">Hello World</p>
```

# Defining in HTML - classes

- Can have more than one style so add as many as required
- In HTML:

```
<p class="center large">Hello World</p>
```

\* space between each class

# Defining in HTML - classes

-In CSS:

```
.center {  
    text-align: center;  
}  
.large {  
    font-size: 50px;  
}
```

# Defining in HTML - classes

The image shows a code editor interface with two panels: 'HTML' on the left and 'CSS' on the right. The 'HTML' panel contains the following code:

```
1 <h1 class="large center"> Heading  
1</h1>  
2 <h2 class="center">Heading 2</h2>  
3 <div>  
4 <p>  
5 Paragraph  
6 </p>
```

The class attributes 'large' and 'center' in the first `<h1>` tag are highlighted with a red box. The 'CSS' panel contains the following styles:

```
1 .large {  
2   font-size: 50px;  
3 }  
4 .center {  
5   text-align: center;  
6 }
```

Heading 1

Heading 2

# Group Selectors

You can set the same styling to different groups

```
h1, h2, p{  
    color: violet;  
}
```

# Comments

```
/* this is css comments*/
```

```
/*this also works  
on multi-line  
Comment*/
```



# Defining in HTML

# ID Selector

```
#specialBlue {  
    color: blue;  
    font-size: 20px;  
}
```

```
#idname {  
    property: value;  
    property: value;  
}
```

\* each id name should only appear once

# Defining in HTML - id

- This is unique - only one id
- Cannot start with a number
- In HTML:

```
<p id="para1">Paragraph 1</p>
```

- In CSS:

```
#para1 {  
    color: blue;  
}
```

# A little extra - Box sizing

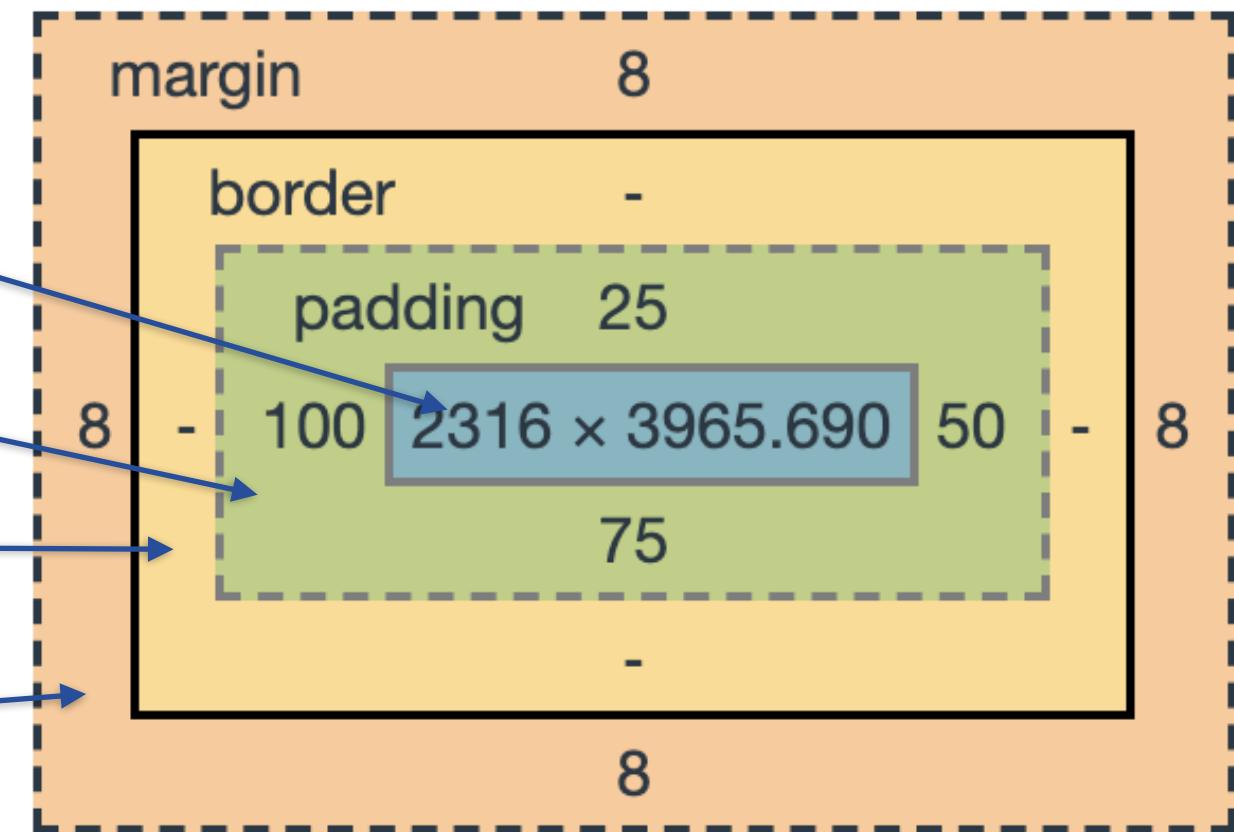
# Box Model - design and layout

**Content**

**Padding**

**Border**

**Margin**



# Box Model - design and layout

## Content

- The content of the box, where text and images appear

## Padding

- Clears an area around the content. The padding is transparent

## Border

- A border that goes around the padding and content

## Margin

- Clears an area outside the border. The margin is transparent

# Box Sizing

Defines how the width and height of an element are calculated, should they include padding and border or not.

```
* {  
    box-sizing: border-box;  
}
```

\* reset the border to the whole HTML as most browsers have their own settings

# Example - Padding

- Generate space around an element's content, inside any defined borders

```
* {  
  box-sizing: border-box;  
  padding: 25px 50px 75px 100px;  
}
```

# Example - Padding

- Generate space around an element's content, inside any defined borders

```
* {  
    box-sizing: border-box;  
    padding: 25px 50px 75px 100px;  
}
```

- Padding applied: top 25, right 50, bottom 75, left 100
- Three values: top, right and left, bottom
- Two values: top and bottom
- One value: all for paddings



# A little extra - element sizing

# Height and width of an element

You can set the sizes of any element to how you like it, these are the main ones:

- Value:
  - **auto**: the browser calculates the width
  - **length**: Defines the width in px for example
  - **%**: Defines the width in percentage of the containing block

# Height and width of an element

You can set the sizes of any element to how you like it, these are the main ones:

- Value:
  - **auto**: the browser calculates the width
  - **length**: Defines the width in px for example
  - **%**: Defines the width in percentage of the containing block

```
img {  
    width: 100%;  
}
```

Set the image to 100% of the original size



A little extra - colours

# Three main colour values

- String (**tomato**)
- Hex (**#ff6347**)
- RGB values (**255, 99, 71**)



# Three main colour values

Some colours are defined already in CSS:

- **String (tomato)**

Or you can create the perfect colour:

- **Hex (#ff6347)**
- **RGB values (255, 99, 71)**
- and many more (RGBA, HSL, HSLA)



# A little extra - fonts

# Font Properties

- Change font (font-family)
- Different sizes (font-size)
- Different style (font-style) - normal, italic oblique
- Different font size with pixels (font-weight)

# Google fonts

We can import fonts that are not commonly used.  
HTML has a few standard fonts to use.

[fonts.googleapis.com](https://fonts.googleapis.com) is one of the many



## Categories

- Serif
- Sans Serif
- Display
- Handwriting
- Monospace

## Sorting

- Trending

## Languages

- All Languages

## Number of styles



## Thickness



## Slant



## Width



Click the "+" to select the fonts you want.

Roboto Mono

Christian Robertson (10 styles)

Sente... ▾ | Regula... ▾

40px



Pau

Silver mist suffused the deck of the ship.

[SEE SPECIMEN](#)

Modak

Ek Type (1 style)

**The sky was cloudless and of a deep dark blue.**

Poppins

Indian Type Foundry (18 styles)



Merriweather

Sorkin Type (8 styles)



Roboto Slab

Christian Robertson (4 styles)



PT Sans

ParaType (4 styles)



The spectacle before us was indeed sublime.

Then came the night of the first falling star.

Waves flung themselves at the blue evening.



Noto Sans

Google (4 styles)



Heebo

Multiple Designers (7 styles)



Anton

Vernon Adams (1 style)



Roboto Mono

Christian Robertson (4 styles)

Sente... ▾ | Regula... ▾ | 40px

Silver mist suffused the deck of the ship.

[SEE SPECIMEN](#)

Modak

Ek Type (1 style)

**The sky was cloudless and of a deep dark blue.**

Poppins

Indian Type Foundry (18 styles)

+

You can select more sizes in one go.

shadow.

stars.

in the speaker.

Merriweather

Sorkin Type (8 styles)

Roboto Slab

Christian Robertson (4 styles)

PT Sans

ParaType (4 styles)

The spectacle before us was indeed sublime.

Then came the night of the first falling star.

Waves flung themselves at the blue evening.

Noto Sans

Google (4 styles)

Heebo

Multiple Designers (7 styles)

Anton

Vernon Adams (1 style)

## Categories

- Serif
- Sans Serif
- Display
- Handwriting
- Monospace

## Sorting

[Trending](#) ▾

## Languages

[All Languages](#) ▾

## Number of styles

## Thickness

## Slant

## Width

Roboto Mono

Christian Robertson (10 styles)

Sente... ▾ | Mediun... ▾ | 40px

**Silver mist suffused the deck of the ship.**

[SEE SPECIMEN](#)

Modak

Ek Type (1 style)

**The sky was cloudless and of a deep dark blue.**

Poppins

Indian Type Foundry (18 styles)

Source Sans Pro

Paul D. Hunt (12 styles)

The face of the moon was in shadow.

Oswald

Vernon Adams, Kalapi Gajjar, Cyreal (6 styles)

**She stared through the window at the stars.**

Raleway

Multiple Designers (18 styles)

The recorded voice scratched in the speaker.

Merriweather

Sorkin Type (8 styles)

The spectacle before indeed sub

Roboto Slab

Christian Robertson (4 styles)

Then came the

PT Sans

ParaType (4 styles)

Waves fluna

Once selected you can maximise this window and copy the code.

Noto Sans

Google (4 styles)

Heebo

Multiple

Anton

1 Family Selected

## Categories

- Serif
- Sans Serif
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## Sorting

Trending

## Languages

All Languages

## Number of styles



## Thickness



## Slant



## Width



Your Selection [Clear All](#)

Roboto Mono

[EMBED](#)[CUSTOMIZE](#)

Load Time: Fast

### Embed Font

To embed your selected fonts into a web  
HTML document.

[STANDARD](#)[@IMPORT](#)

```
<link href="https://fonts.googleapis.com/css?family=Roboto+Mono:400,500"  
rel="stylesheet">
```

### Specify in CSS

Use the following CSS rules to specify these families:

```
font-family: 'Roboto Mono', monospace;
```

For examples of how fonts can be added to webpages, see the [getting started guide](#).

Select @IMPORT

Your Selection [Clear All](#)

Roboto Mono

[EMBED](#)[CUSTOMIZE](#)**Embed Font**

To embed your selected fonts  
HTML document.

[STANDARD](#) [@IMPORT](#)

Copy and past this code to the  
top of css file (you do not need  
<style> and </style>)

```
<style>
  @import url('https://fonts.googleapis.com/css?family=Roboto+Mono:400,500
');
</style>
```

**Specify in CSS**

Use the following CSS rules to specify these families:

```
font-family: 'Roboto Mono', monospace;
```

For examples of how fonts can be added to webpages, see the [getting started guide](#).

Your Selection [Clear All](#)

Roboto Mono

[EMBED](#)[CUSTOMIZE](#)

Load Time: Fast

### Embed Font

To embed your selected fonts into a webpage, copy this code into the <head> of your HTML document.

[STANDARD](#) [@IMPORT](#)

```
<style>
@import url('https://fonts.googleapis.com/css?family=Roboto+Mono:400,500
');
</style>
```

[Specify in CSS](#)

Use the following CSS rules to specify these families:

```
font-family: 'Roboto Mono', monospace;
```

Copy and paste this to your styling

For examples of how fonts can be added to webpages, see the [getting started guide](#).

1 Family Selected

Your Selection [Clear All](#)



Roboto Mono [-](#)

EMBED

CUSTOMIZE

Load Time: Fast

### Embed Font

To embed your selected fonts into a webpage, copy this code into the <head> of your HTML document.

[STANDARD](#) [@IMPORT](#)

```
<style>
@import url('https://fonts.googleapis.com/css?family=Roboto+Mono:400,500
');
</style>
```

'Roboto Mono' is the chosen font

Use the following CSS to specify these families.

```
font-family: 'Roboto Mono', monospace;
```

For examples of how fonts can be added to webpages, see the [getting started guide](#).

Your Selection [Clear All](#)

Roboto Mono

[EMBED](#)[CUSTOMIZE](#)

Load Time: Fast

### Embed Font

To embed your selected fonts into a webpage, copy this code into the <head> of your HTML document.

[STANDARD](#) [@IMPORT](#)

```
<style>
@import url('https://fonts.googleapis.com/css?family=Roboto+Mono:400,500
');
</style>
```

Specify in CSS

'monospace' is the family font as a backup (standard in html)

Use the following CSS rules to specify the families:

```
font-family: 'Roboto Mono', monospace;
```

For examples of how fonts can be added to webpages, see the [getting started guide](#).

# Google fonts - in practice

```
@import url('https://fonts.googleapis.com/css?family=Roboto+Mono:400,500');

h1 {
  font-family: 'Roboto Mono', monospace;
}
```

# Learning Objectives

- To understand what CSS is and what it's used for
- To understand a few CSS syntax are and be able to write your own

# Activity

Add CSS to all HTML pages you have created so far.

You must include at least a class and an id.



**More info:**

<https://www.w3schools.com/css/>

[https://developer.mozilla.org/en-US/docs/Learn/Getting\\_started\\_with\\_the\\_web/CSS\\_basics](https://developer.mozilla.org/en-US/docs/Learn/Getting_started_with_the_web/CSS_basics)