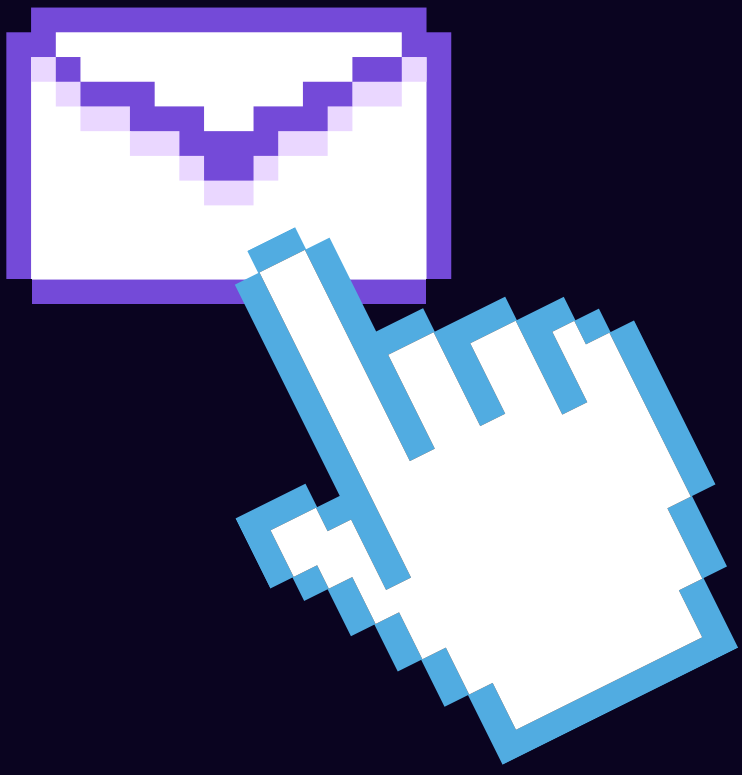


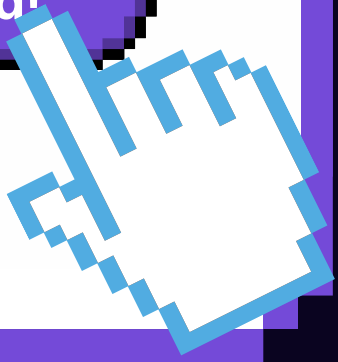
Welcome Web Designers!

Today we will learn how to create your very own website from scratch!

The websites you use every day are made using the coding languages HTML & CSS.

Your task today is to build your own!

Let's get started!



Learning Outcomes

Understand HTML Tags and CSS Styling

☐

Understand how to add and format media

☐

Create a fully functional web page

☐

Develop digital creativity

☐

Draw your dream website

Some ideas:

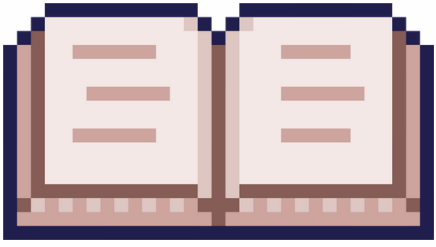
Your favourite hobby

Your pets

Your favourite band

The last book you read

Share your idea with the class!



Draw Your Website Here

Turn around

Introduction

HTML stands for **H**yper**T**ext **M**arkup **L**anguage.

This language helps you tell a computer how to display information on a web page.

It describes the structure of a web page and consists of a series of elements.

HTML elements label pieces of content such as headings, paragraphs, and images.

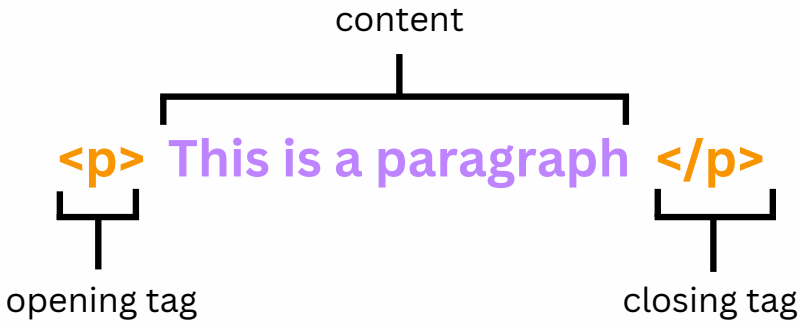
<Tags>

Tags are the building blocks of HTML.

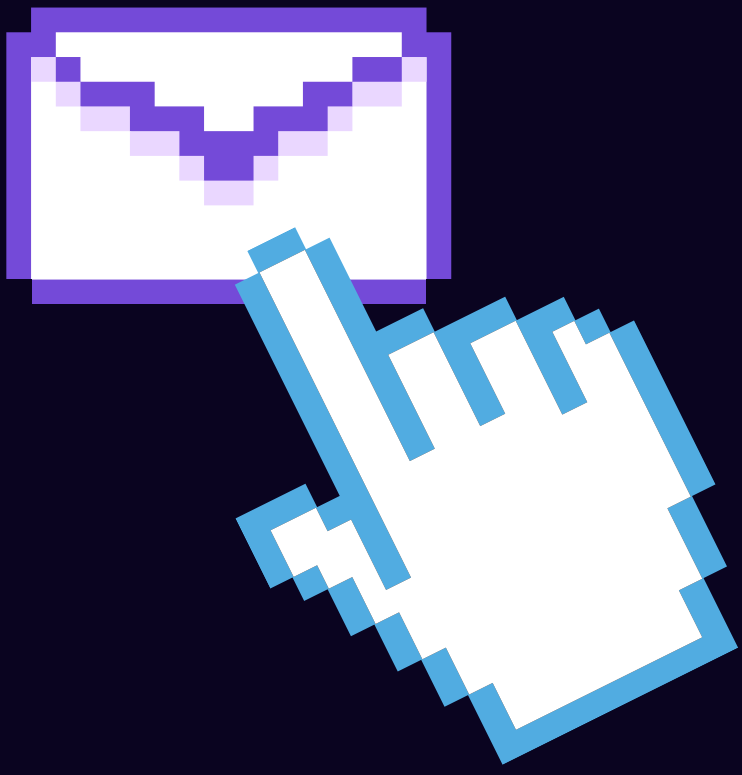
They feature a name surrounded by opening < and closing > brackets.

You must remember to close every tag you open.

Closing tags will always have a forward slash / inside of them.



New Task!



HTML: The Skeleton

Tells the computer "This is a website!" → `<!DOCTYPE html>`

`<html>`

`<head>`

Secret information goes here

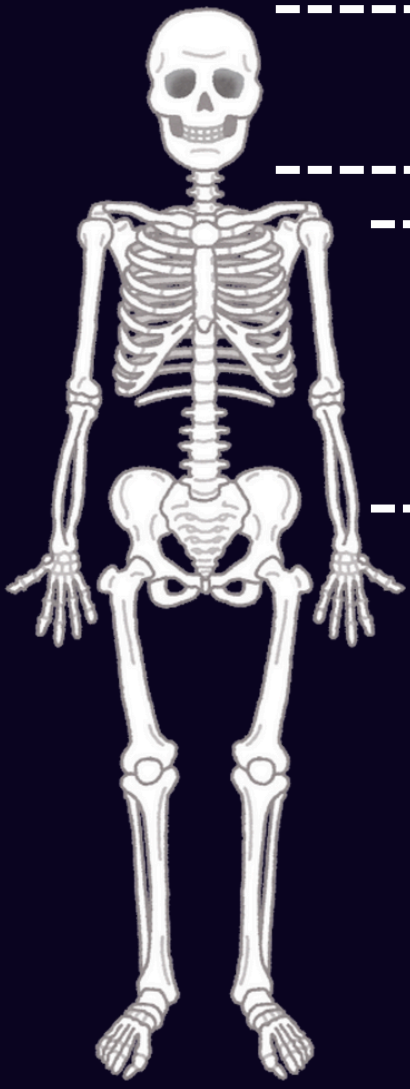
`</head>`

`<body>`

Only things here will be displayed on your website

`</body>`

`</html>`



Note the structure

Let's Get Coding!

Firstly, Open Notepad

Add <!DOCTYPE HTML> to the top of your file

Add <html> just under <!DOCTYPE HTML>, like your skeleton! Make sure to add a </html>

Save your file! Name it and add .html to the end. For example, mywebsite.html

Continue Coding!

Next, add <head> to your web page.
Can you remember where it goes?

Add <body> to your file

Remember to close your tags

Save your file!

New Elements!

<Title> My Website </Title>

The **title** tag goes in the <head> This will **NOT** be displayed on your web page. Instead, it will be shown in your page's tab.

<h1> Welcome to My Website </h1>

<h1>, <h2>, <h3>, ... all create a heading. The higher the number, the smaller the size of heading.

** This is my first web page. **

The **p** tag creates a paragraph.

Let’s Get Coding!

Add <title> to your web page

Add <h1> to your web page

Add a paragraph to your web page

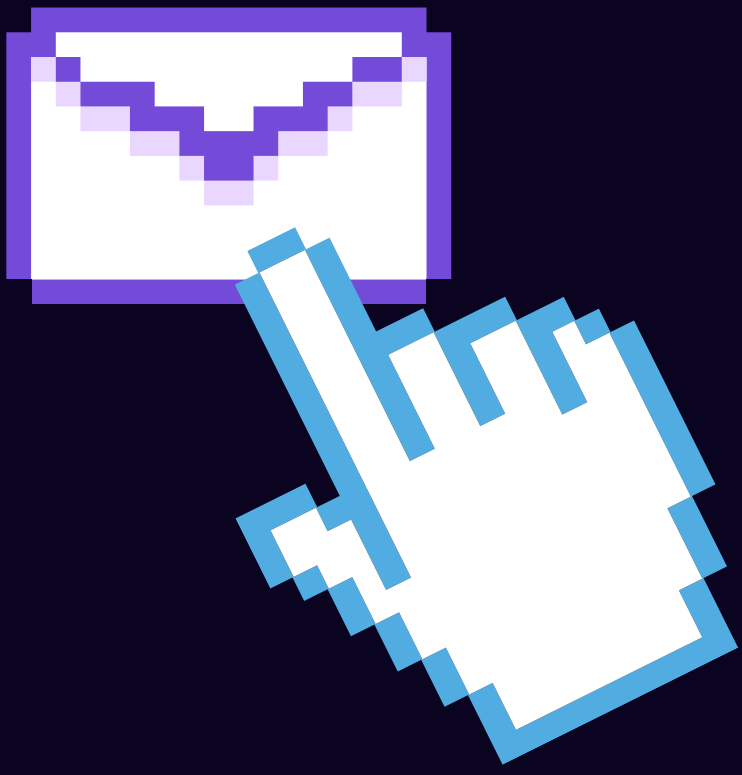
Save your file!

Your Website

Your website should start to look a little like this!

```
<!DOCTYPE html>
<html>
<head>
<Title> My Website </Title>
</head>
<body>
<h1> Welcome to My Website </h1>
<p> This is my first web page. </p>
</body>
</html>
```

New Challenge!

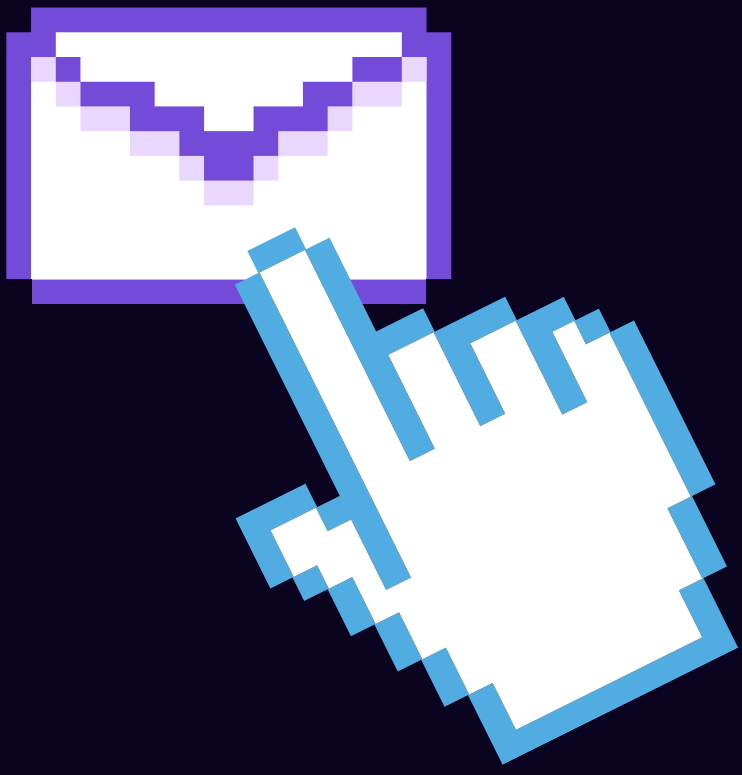


Structure Puzzle

Rearrange the below HTML elements into the correct order.

</head>
<!DOCTYPE html>
</body>
<Title> My Website </Title>
 This is my first web page.
<html>
<body>
</html>
<h1> Welcome to My Website </h1>
<head>
 This is another paragraph.
<h2> This is a sub-heading </h2>

New Task!



Images and Videos

<img src="mypic.jpg" alt="My Picture" />

The **img** tag contains:
src - folder path to image
alt - provides text if image cannot be viewed
Self-closing tag! Notice the / at the end!

<video controls>
<source src="movie.mp4" type="video/mp4">
Your browser does not support the video tag.
</video>

The **video** tag contains controls.
This allows a user to play/pause your video.

The **source** tag contains:
src - folder path to video
type - file type of video

The text in between is displayed when the video cannot be viewed.

Let's Get Coding!

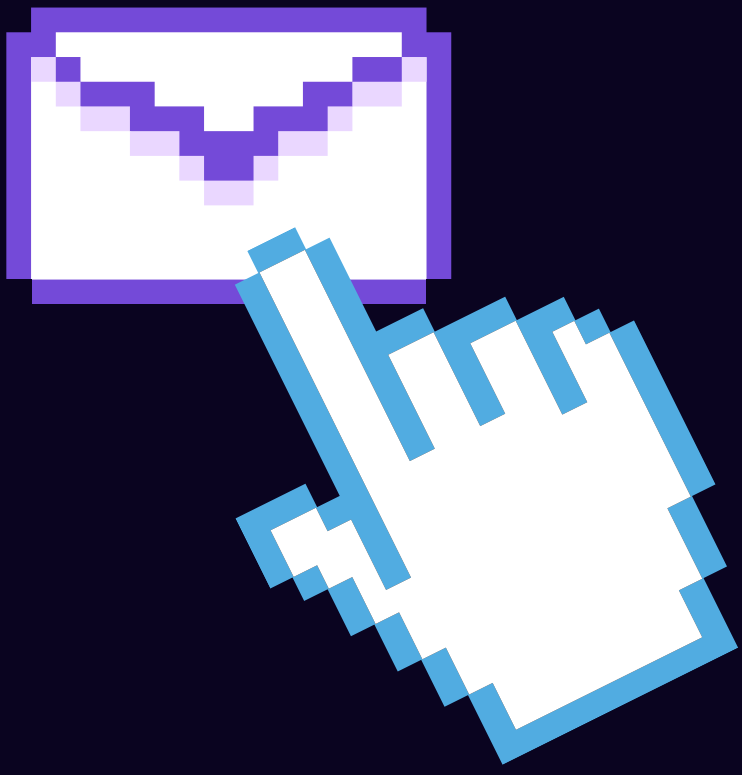
Find an image, save it, and add it to your website

Find a video, save it, and add it to your website

Insert any extra media you want to include in your web page

Save your file!

New Task!



CSS

CSS stands for **C**ascading **S**tyle **S**heets.

This language helps you style your HTML elements.

It allows you to change the colour, sizing, and layout of your web page.

Styling Elements

To style your HTML elements you must add a link to your CSS file in the <head>

<link rel="stylesheet" href="styles.css">

The **link** tag contains:
rel - relationship between files
href - folder path to CSS file
No closing tag!

To code in CSS we first type what HTML element, eg <p>, we want to change followed by opening { and closing } brackets.

We then pick the property we want to change the value of, separated by colons : and semi-colons ;

```
p {
    colour: red;
    font-size: 12px;
}
```

Let's Get Coding!

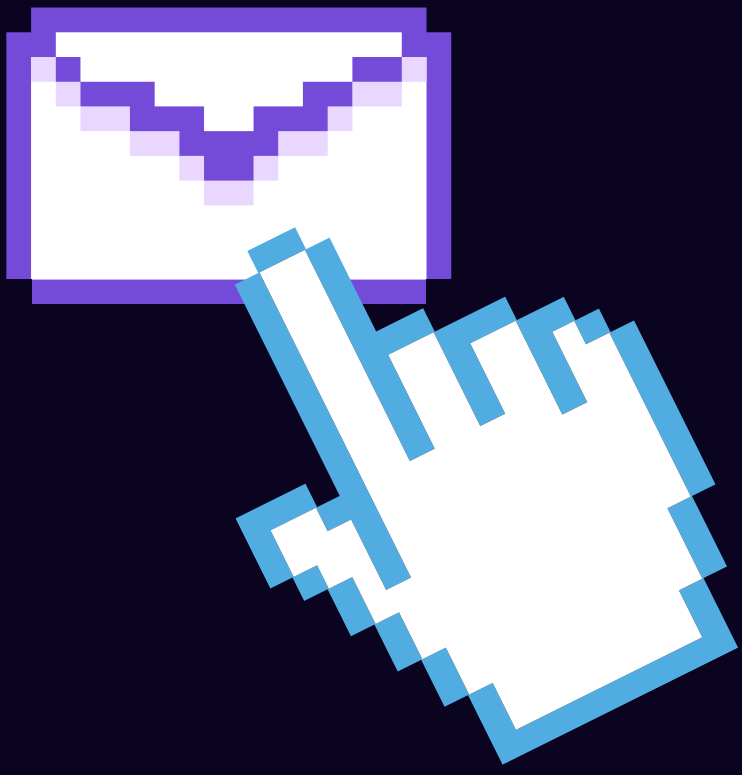
Firstly, open a new file in Notepad

Style a paragraph to make its text red as shown in the previous page

Save your file! Name it and add .css to the end. For example, mystyle.css

Go back to your .html file and add a link to your CSS file in the <head>

New Challenge!



CSS Challenge

Style a paragraph to make its text blue and font size 20px

Change the width and height of an image to 500px

Change the background colour of your website to yellow

Now its time to experiment and add your own styling to your website!

Final Puzzle

Rearrange the below HTML elements into the correct order.

<video controls>
</body>
<img src="mypic.jpg" alt="My Picture" />
<Title> My Website </Title>
 This is my first web page.
<h1> Welcome to My Website </h1>
<!DOCTYPE html>
<body>
</html>
<html>
</video>
</head>
<source src=”video.mp4” type=”video/mp4”>
<head>

Questions

Answer the below questions in order to complete the course!

How does your final web page compare to your first sketch?

How did you overcome any challenges faced?

What do you want to add to your web page?

Do you have any questions for the tutors about areas you are unsure about?

WEB DESIGN COMPLETE

Well done! You have completed your first web page.

Show your web page to a tutor to achieve your certificate!