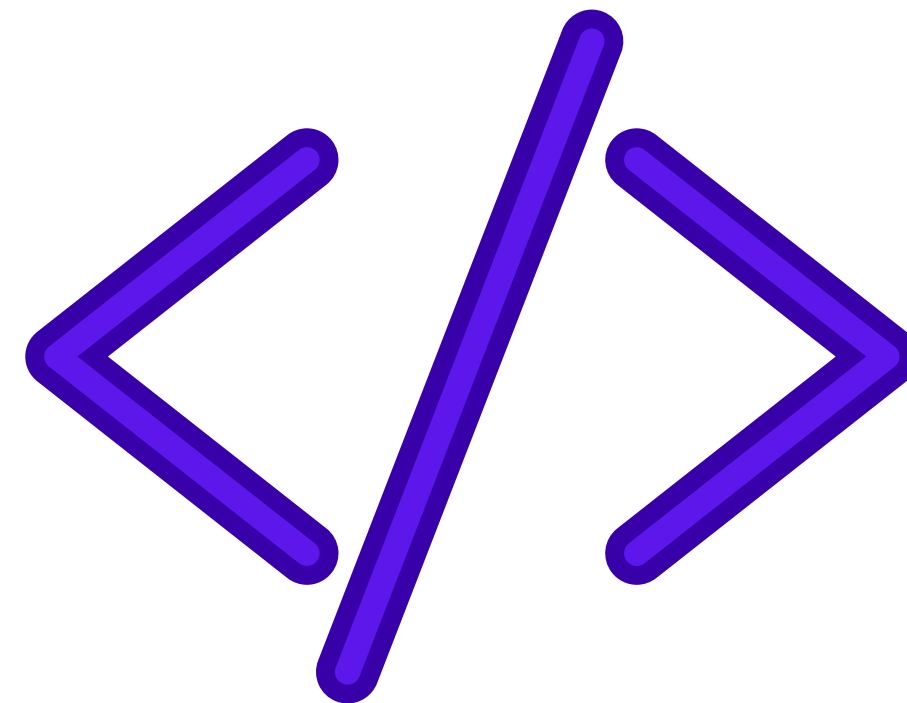


<InfPALS/>



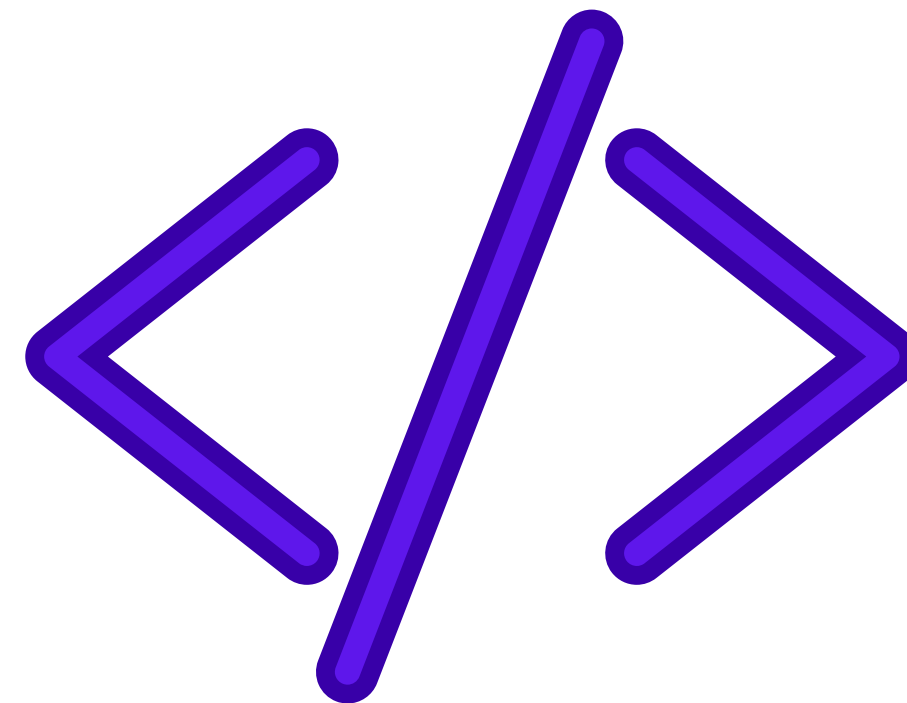
Why?

- How website pages actually work.
- You won't become a web developer, but you will gain essential skills to use in bigger projects.
- Basics of HTML, CSS, Javascript.

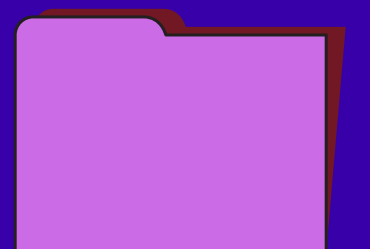
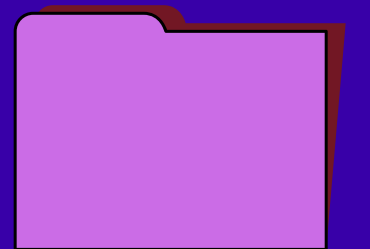
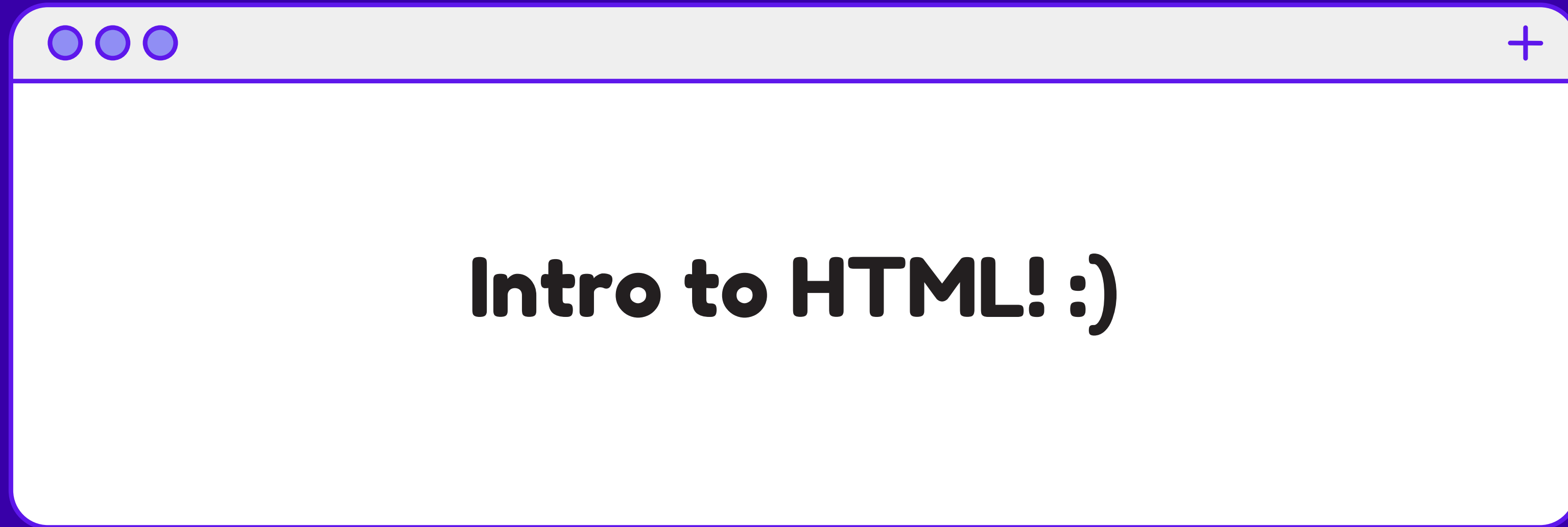


Overview

- **HTML** provides the basic structure of sites, which is enhanced and modified by other technologies like CSS and JavaScript.
- **CSS** is used to control presentation, formatting, and layout.
- **JavaScript** is used to control the behavior of different elements.

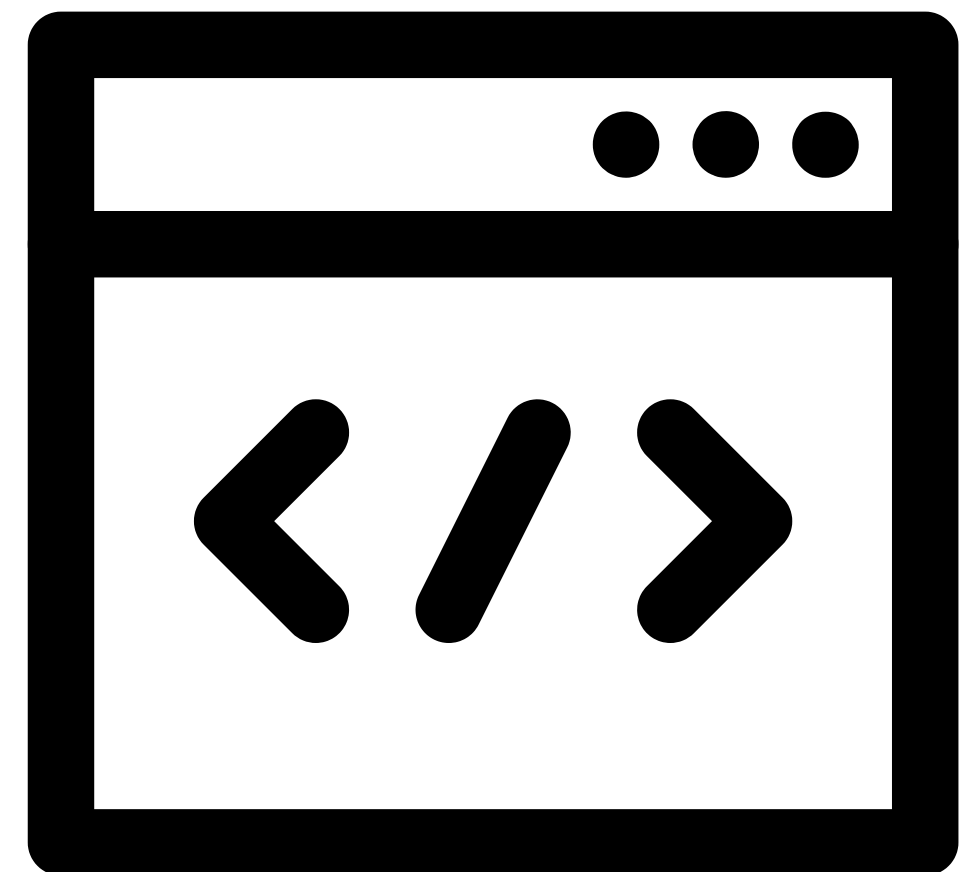
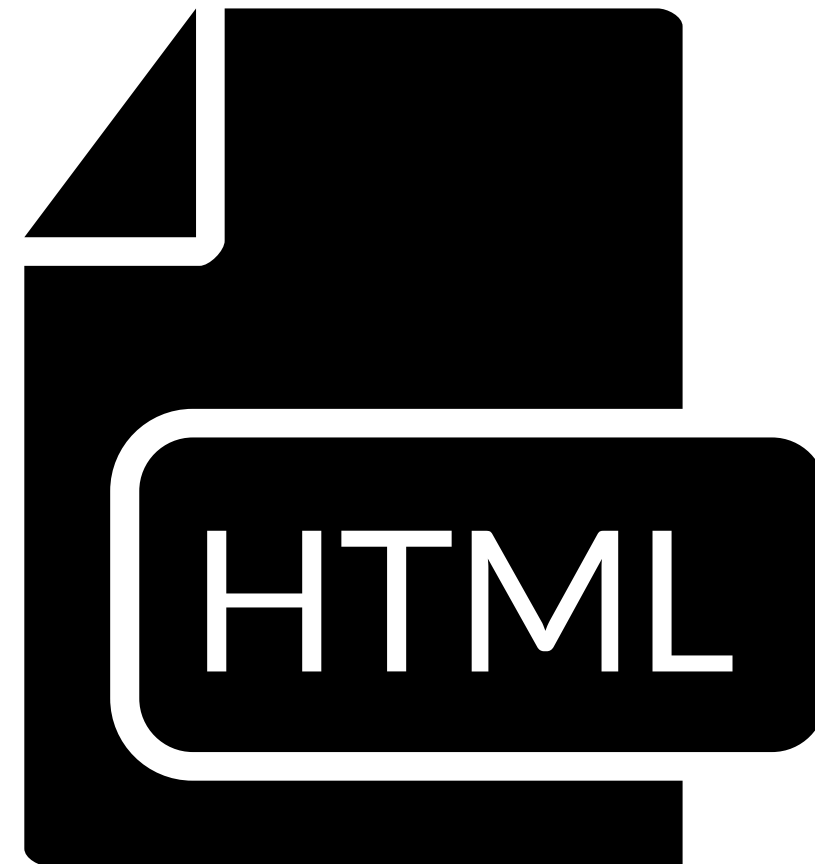


We hope you are having fun! ;)



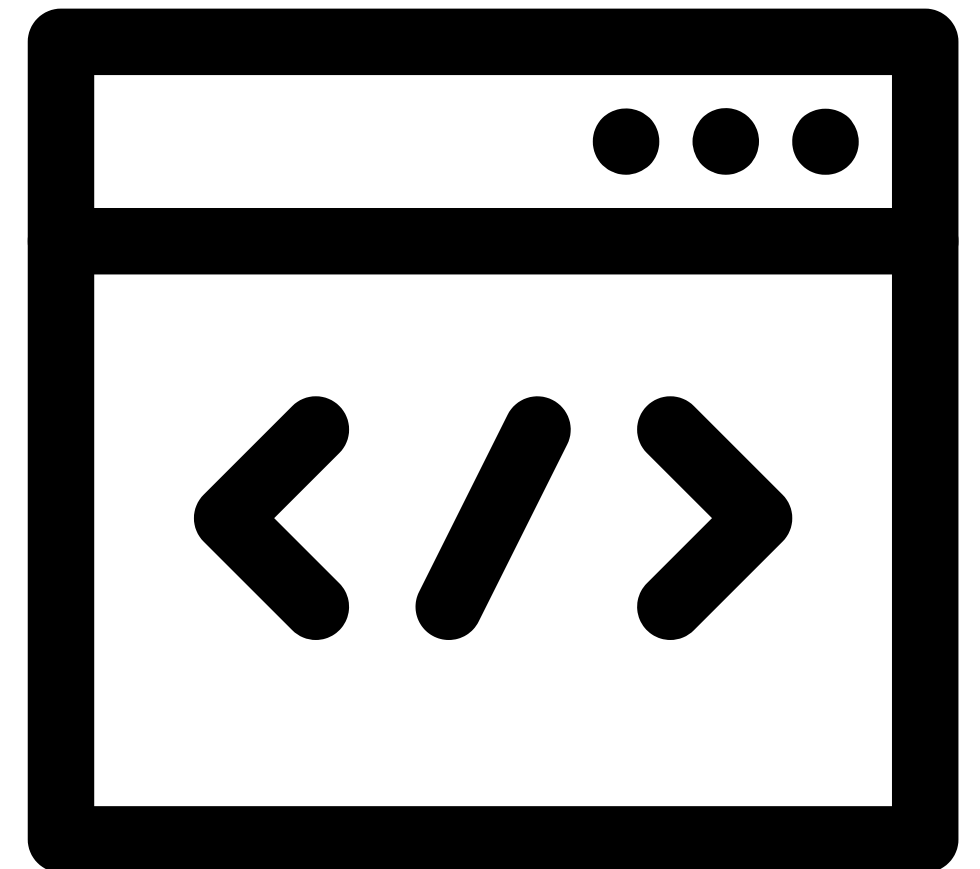
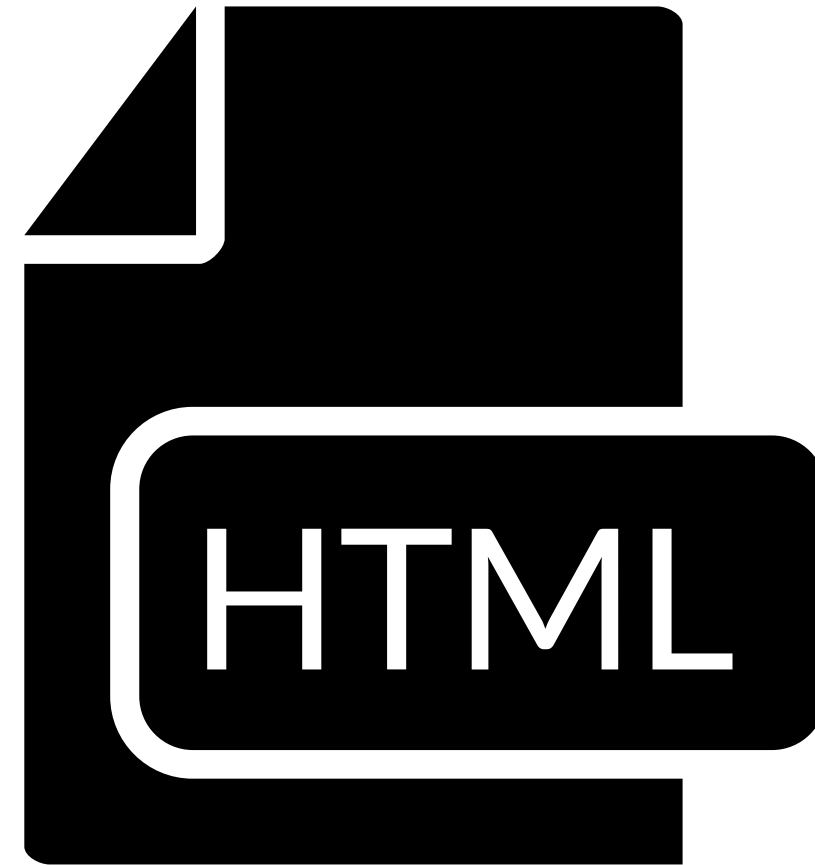
HTML

- **HTML** provides the basic HTML stands for HyperText Markup Language. "Markup language" means that, rather than using a programming language to perform functions, HTML uses tags to identify different types of content and the purposes they each serve to the webpage.



HTML

- Each webpage is made up a bunch of hidden HTML tags.
- Some HTML tags, known as elements, are:
 - header
 - body text
 - images
 - classes



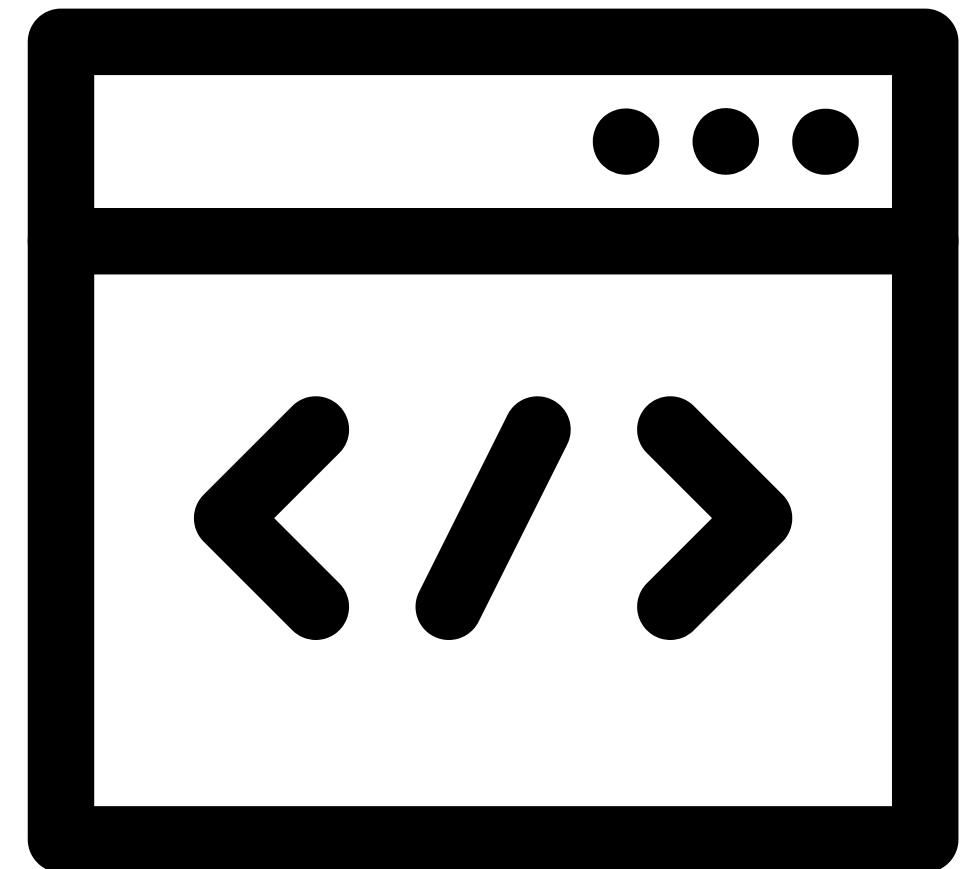
HTML

You can think of HTML as the structure of your web page.

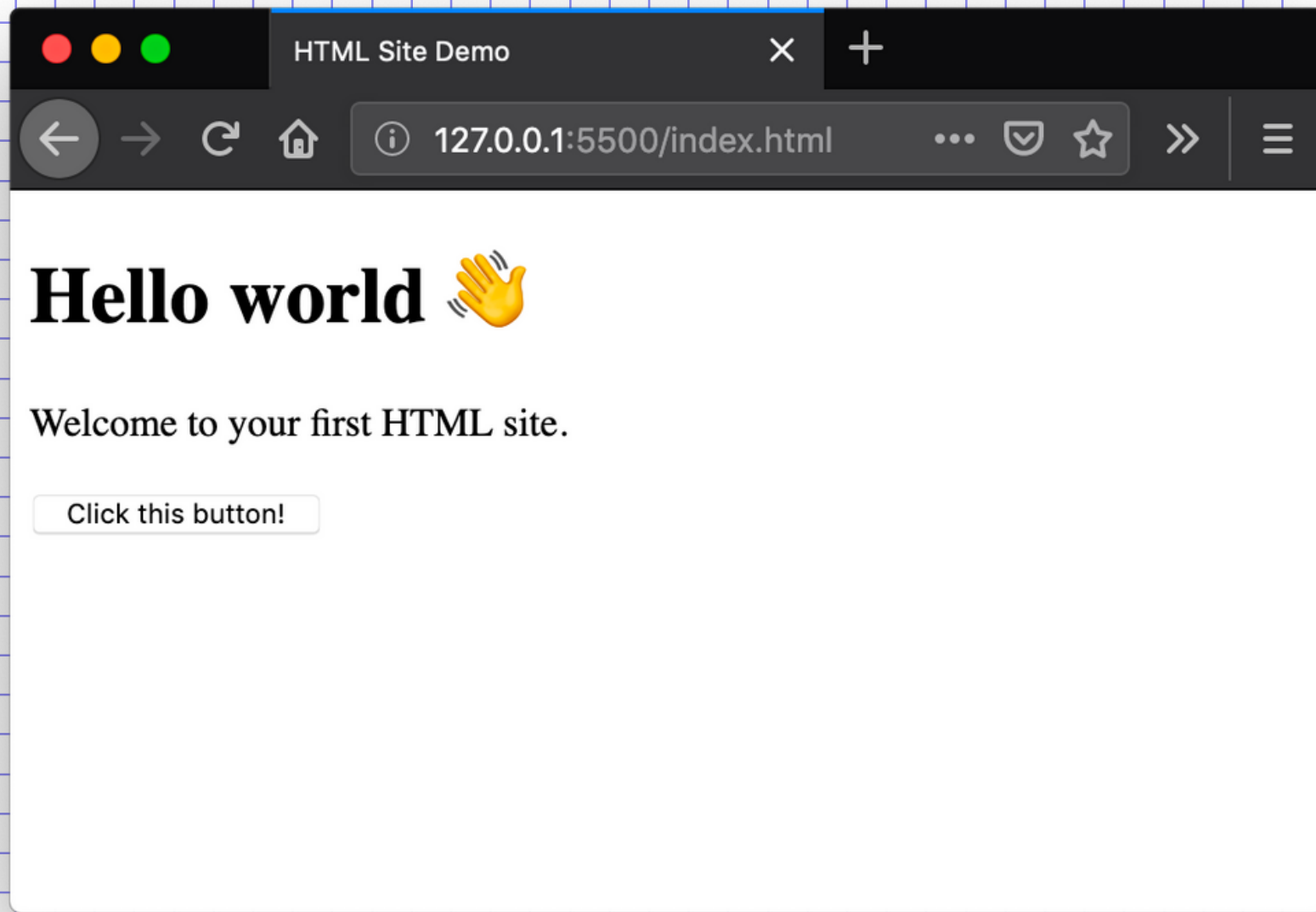
Some important tags:

- `<div></div>`: Division
- `<h1></h1>`: Header
- `<p></p>`: Paragraph

You can also assign a tag a **class attribute**. This points to a class defined in your CSS!
(Don't worry - you'll see this later in the templates for the project!)

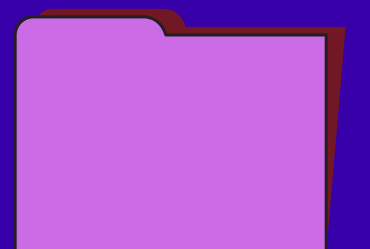
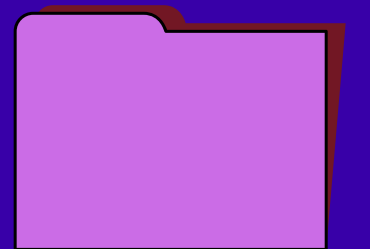


HTML Example



```
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>HTML Site Demo</title>
  </head>
  <body>
    <h1 id="hello">Hello world  </h1>
    <p>Welcome to your first HTML site.</p>
    <div>
      <button>Click this button!</button>
    </div>
  </body>
</html>
```

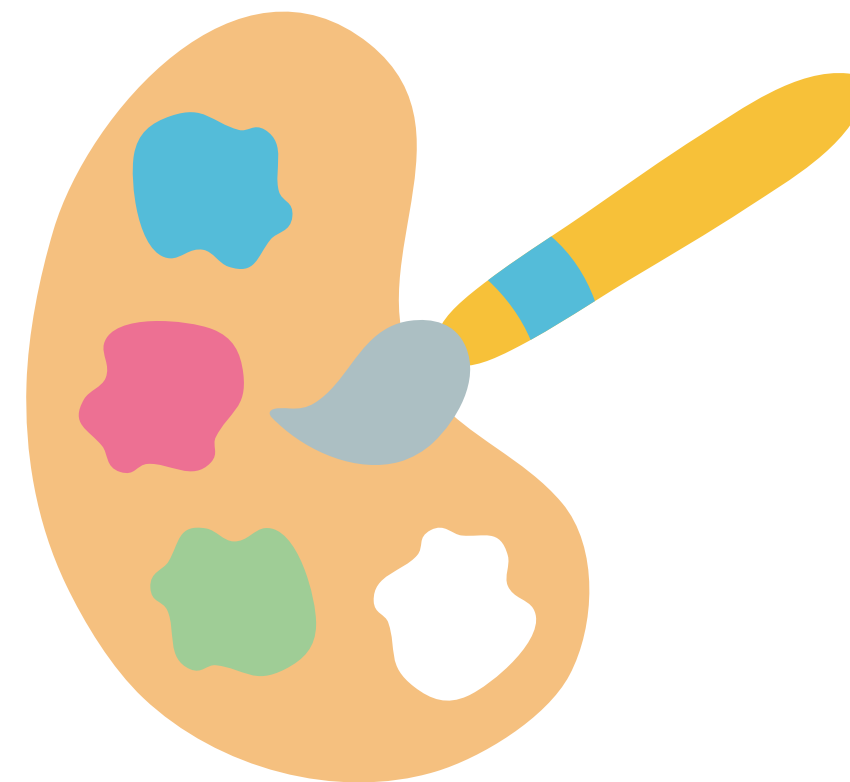

We hope you are having fun! ;)



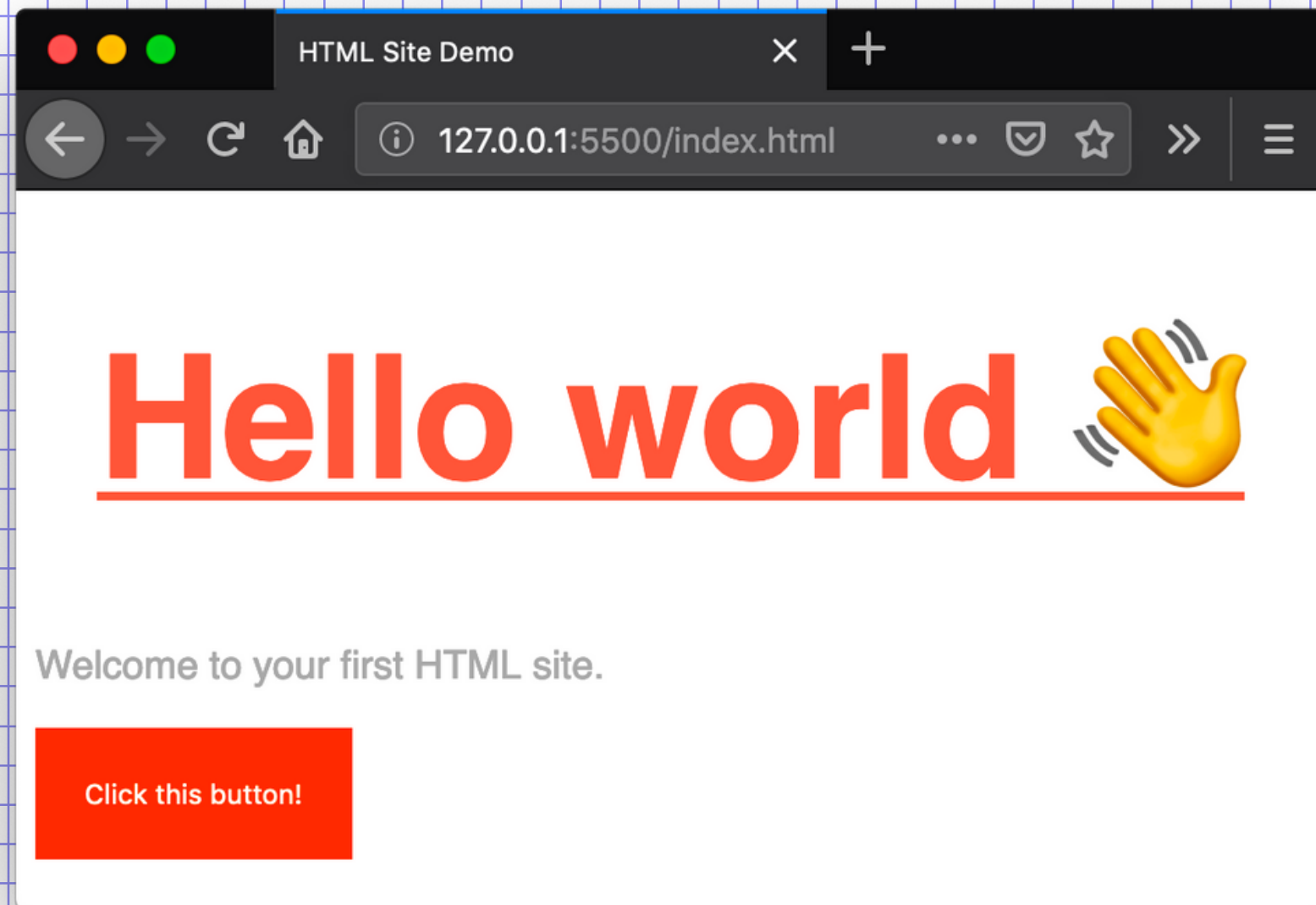
CSS

- CSS stands for Cascading Style Sheets. This programming language dictates how the HTML elements of a website should actually appear on the frontend of the page.
- Helps to style this content so it appears to the user the way it was intended to be seen.
- This includes color, fonts, background images....
- CSS: set of rules that can assign different properties to HTML tags.

CSS



CSS Example

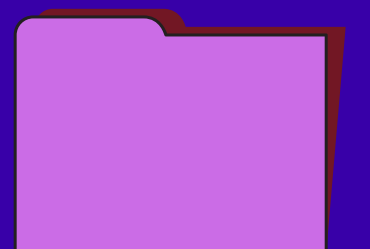
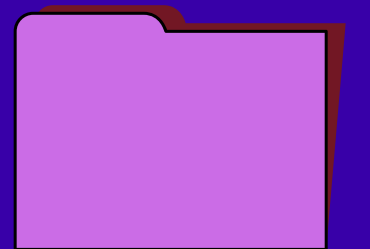
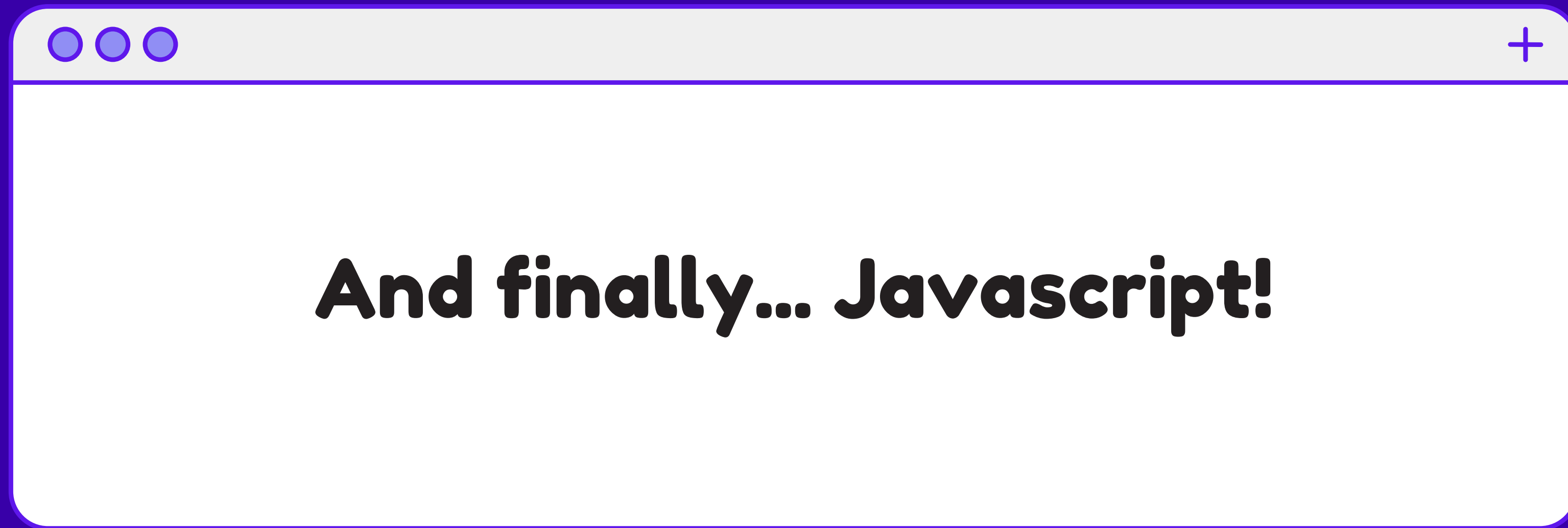


```
h1 {  
  color: tomato;  
  font-size: 70px;  
  font-family: sans-serif;  
  text-decoration: underline;  
  text-align: center;}
```

```
p {  
  font-family: sans-serif;  
  color: darkgray;}
```

```
button {  
  background-color: orangered;  
  color: white;  
  border: 0;  
  padding: 20px;}
```

We hope you are having fun! ;)



Javascript

- JavaScript is a **logic-based** programming language that can be used to modify website content and make it behave in different ways in response to a user's actions. Common uses for JavaScript include confirmation boxes, calls-to-action, and adding new identities to existing information.
- In summary: Javascript is used for functionality!

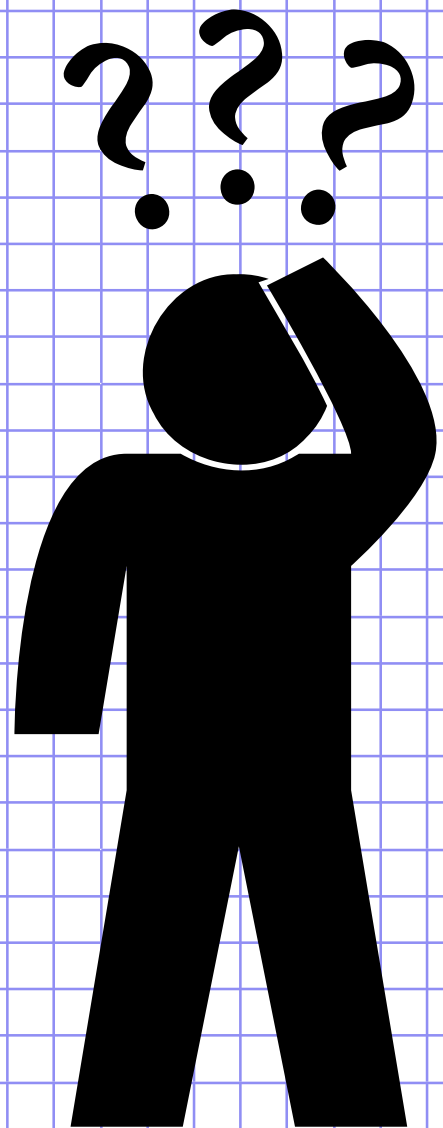


JavaScript

- Program actions, conditions, calculations, network requests.
- Document Object Model (DOM) API: tree-like representation of a webpage that is loaded into the browser
 - methods such as `getElementById()`



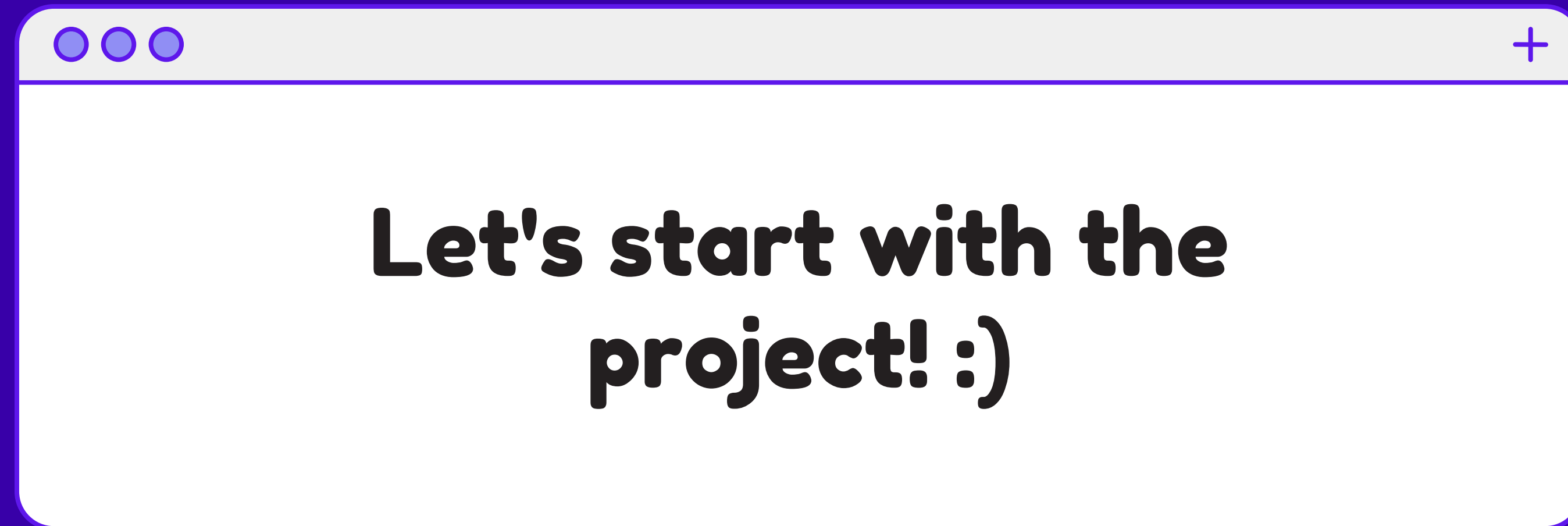
JS Example



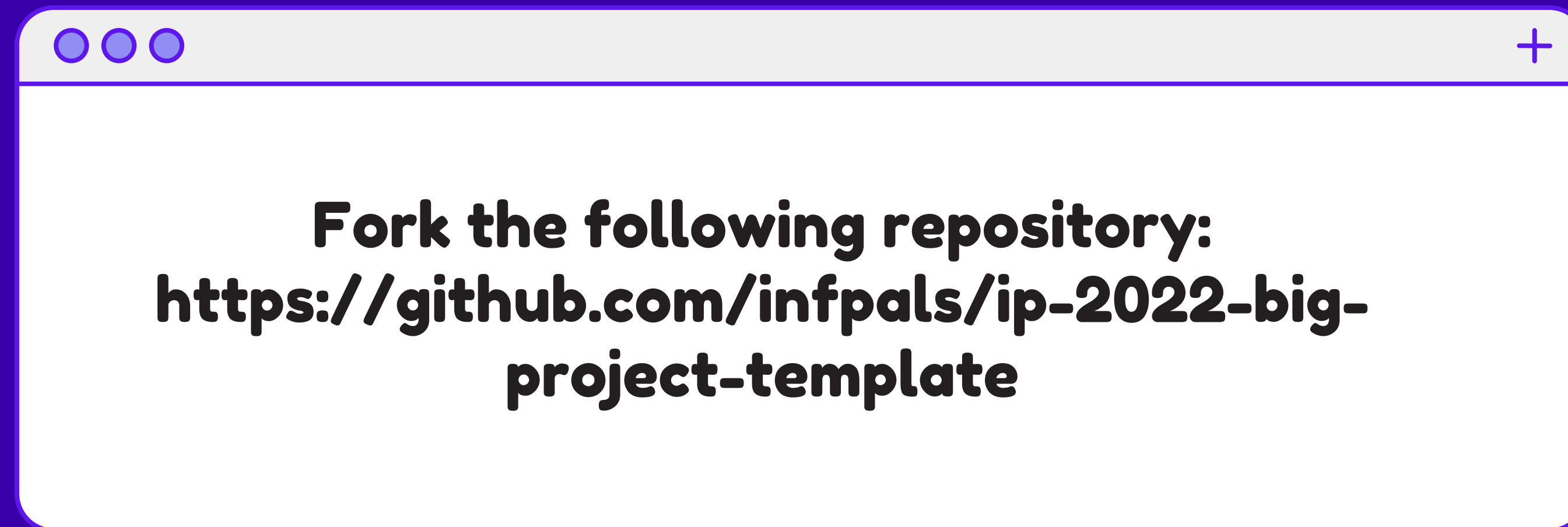
**What do you think this
function does?**

```
function changeText() {  
  let headerTitle = document.getElementById('hello');  
  headerTitle.textContent = 'Hello you  ';  
}
```

Now it is your turn!



Now it is your turn!



Try to do things listed in the window!

If you have any problems don't hesitate to raise your hand and the Leader will come and help you. :)

- 
- 1. Install Visual Studio Code.**
 - 2. Install Live Server:**
<https://marketplace.visualstudio.com/items?itemName=ritwickdey.LiveServer>
 - 3. Fork the repository onto your GitHub account.**
 - 4. Pull it to your local compute and analyze the files it contains.**
 - 5. Change the title to be: Your Name's Kanban Board.**
 - 6. Find where the trees.jpg is located in the code. Choose your favorite picture, add it to the same folder, and replace the background!**

Now it is your turn!

