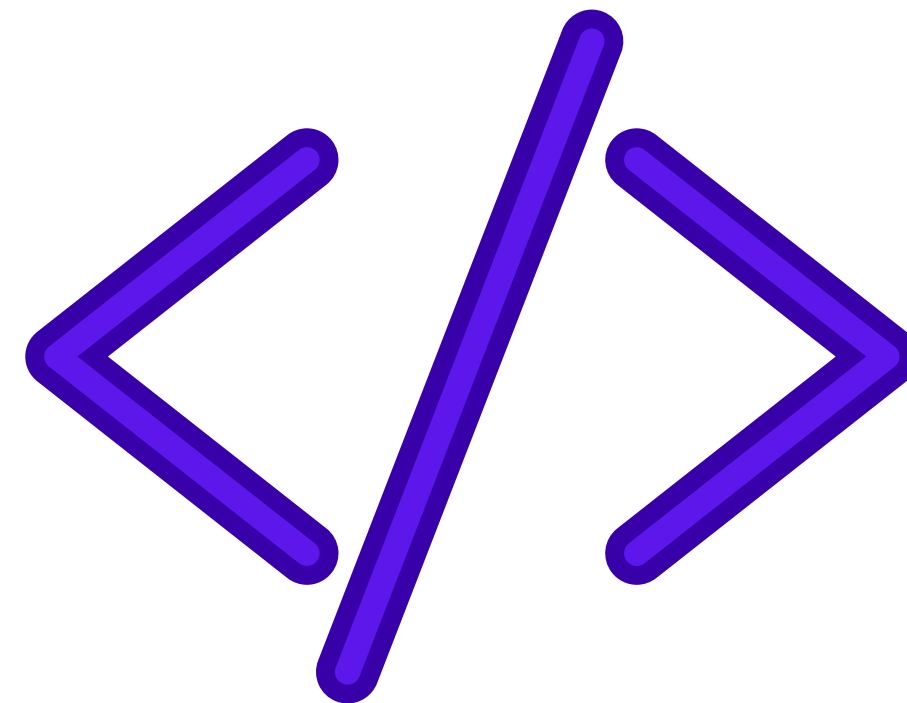


<InfPALS/>



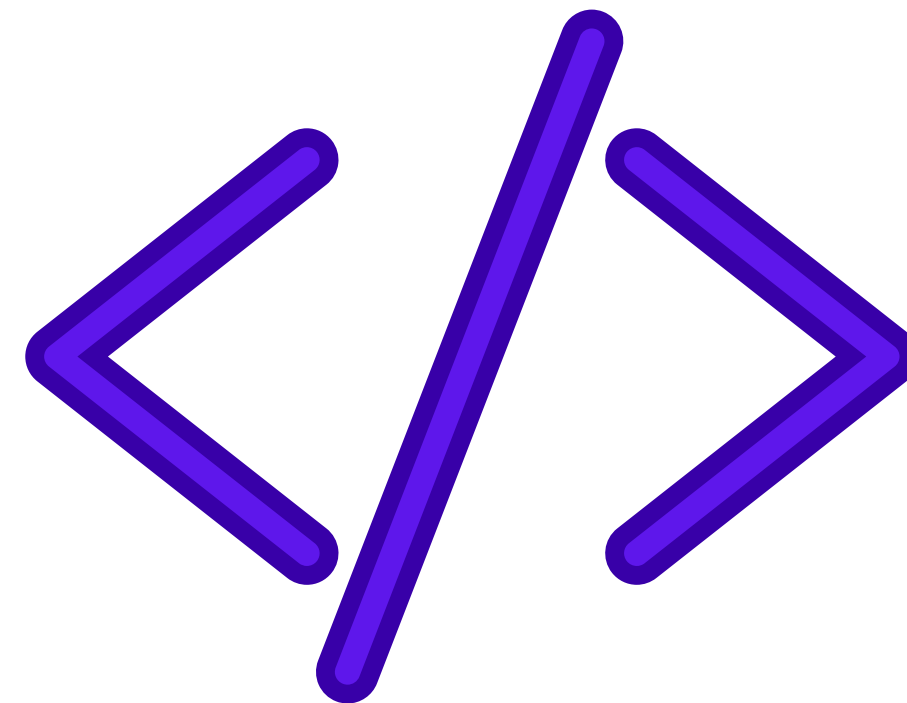
Why?

- 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.

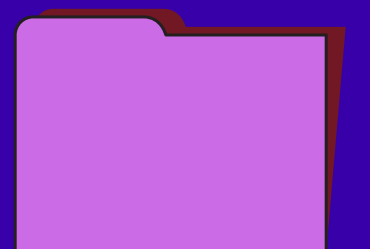
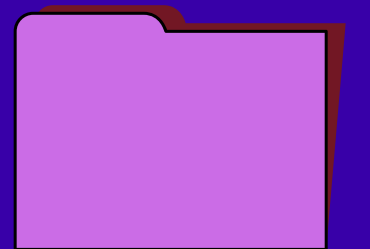
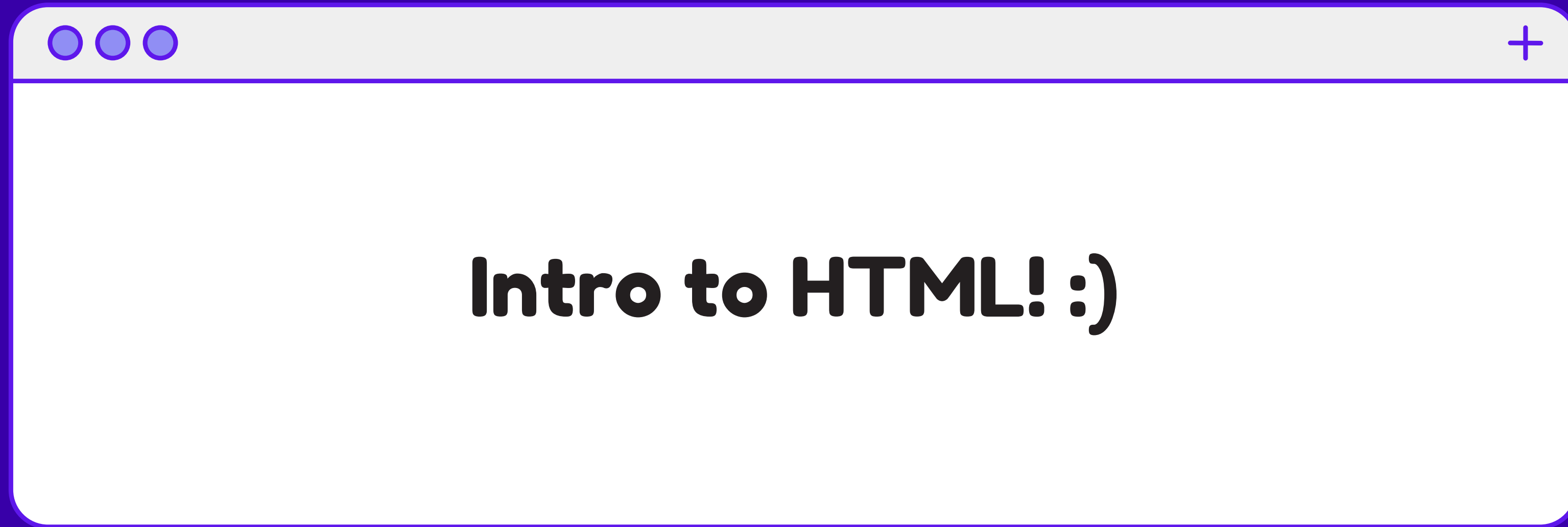


Overview

- **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.

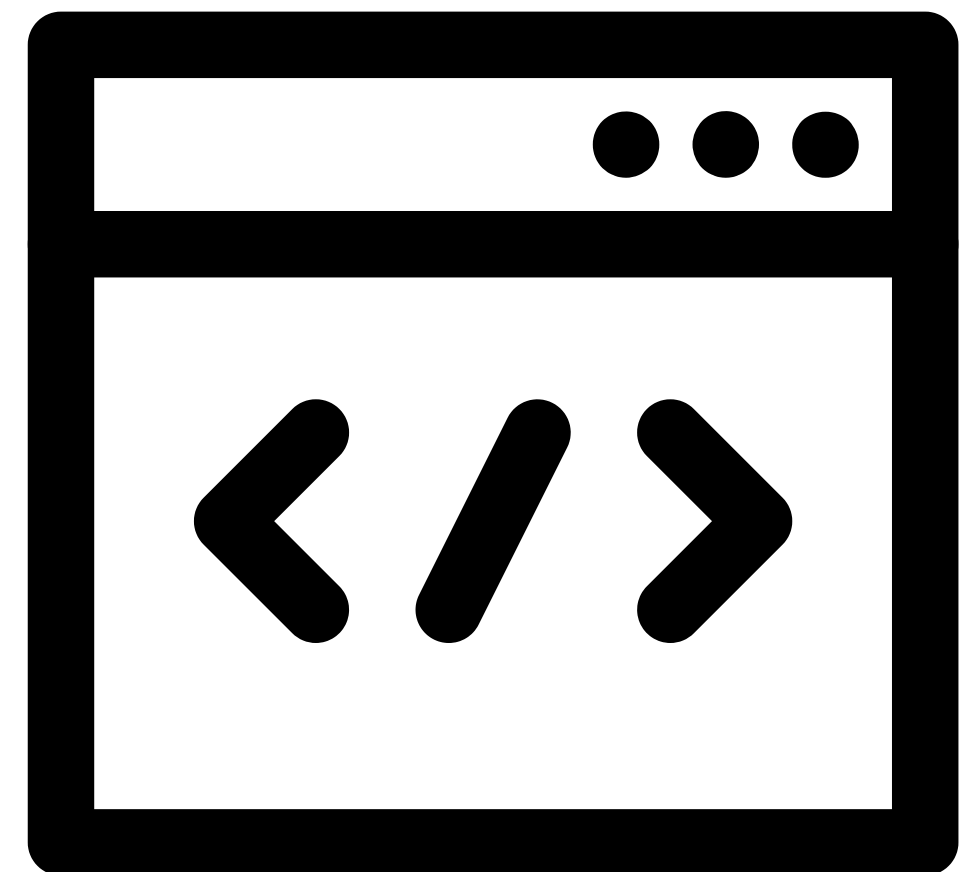


We hope you are having fun! ;)



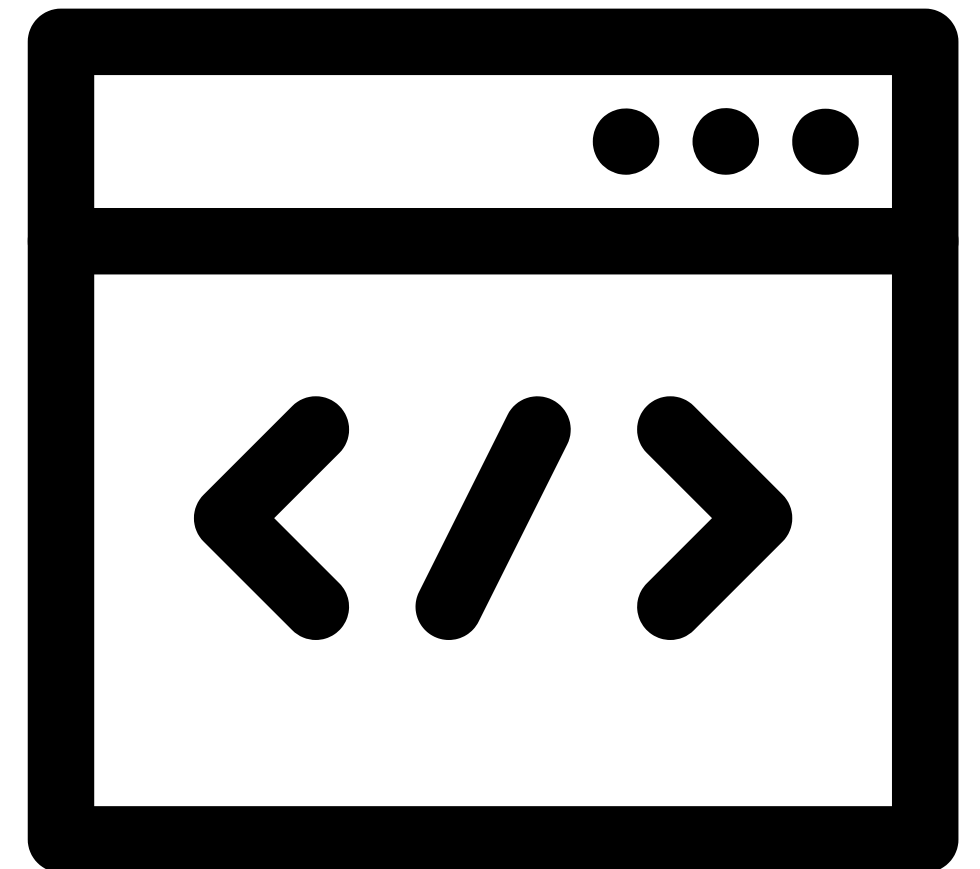
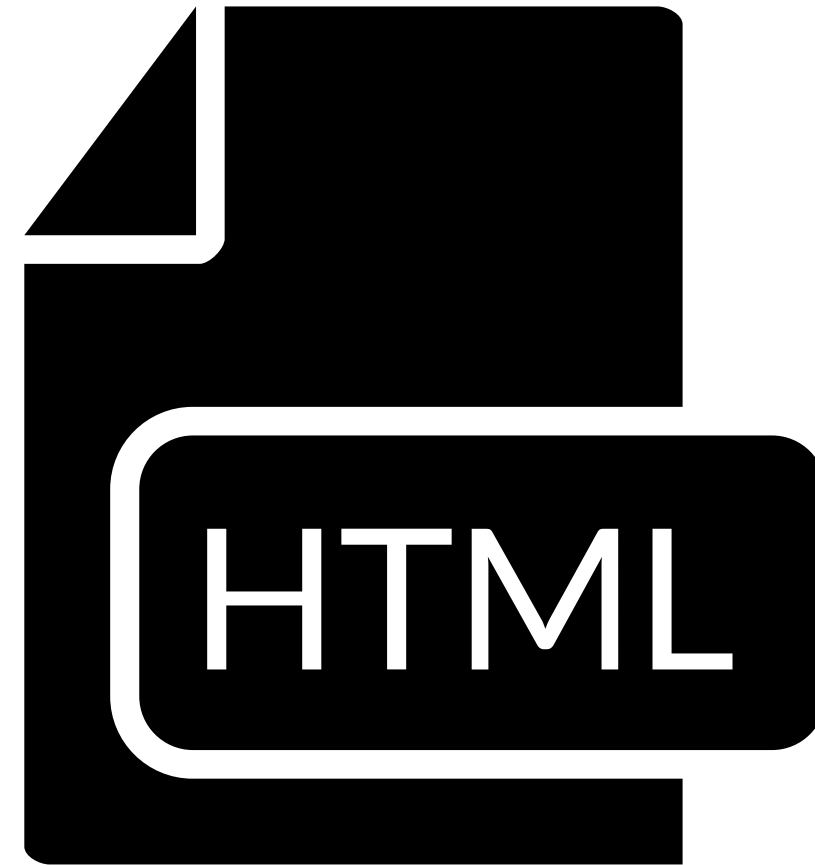
HTML

- **HTML**
 - HyperText Markup Language
 - "Markup language"
 - tags to identify different types of content and the purpose
 - structure of your web page



HTML

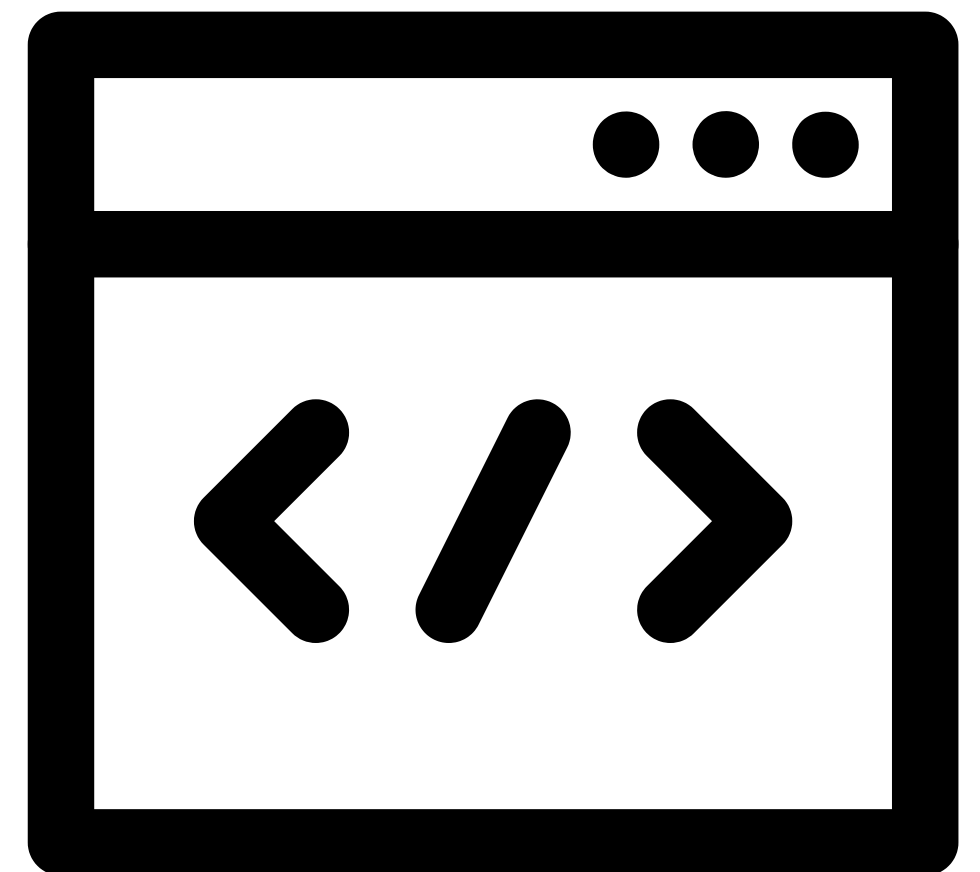
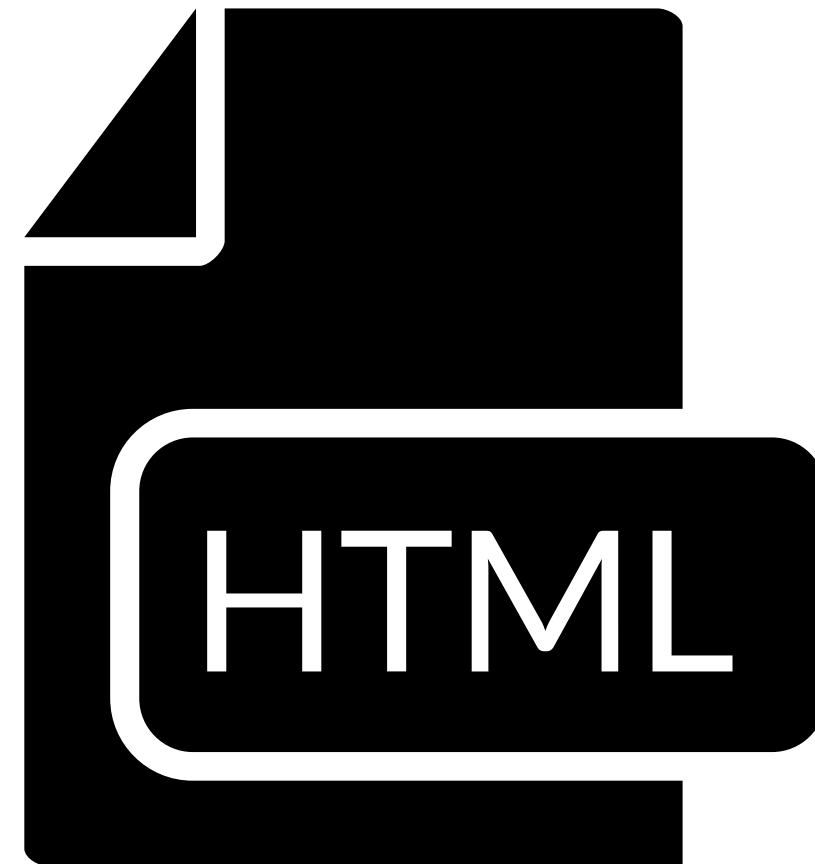
- Each webpage is made up a bunch of hidden HTML tags
- Some HTML tags, known as elements, are:
 - header
 - body text
 - images
 - classes
- Look at Developer Tools



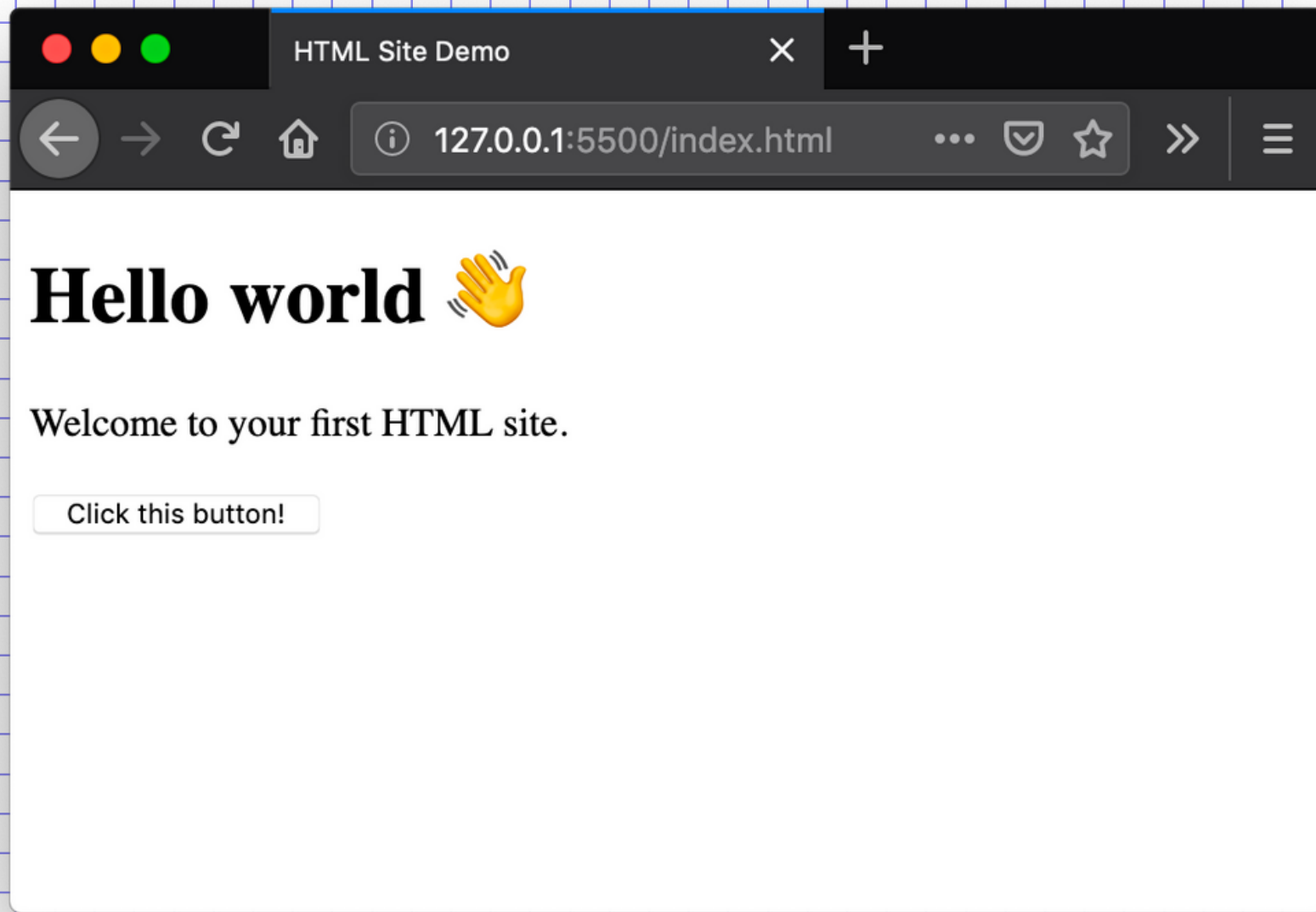
HTML

- 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!)

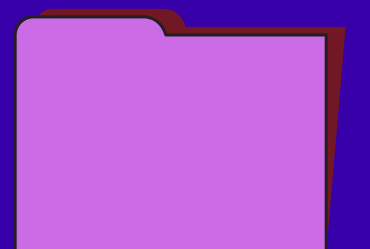
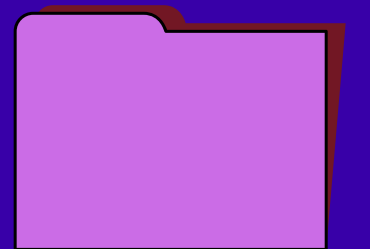


HTML Example



```
<!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 class = 'click-button'>
      Click this button!
    </div>
  </body>
</html>
```


We hope you are having fun! ;)

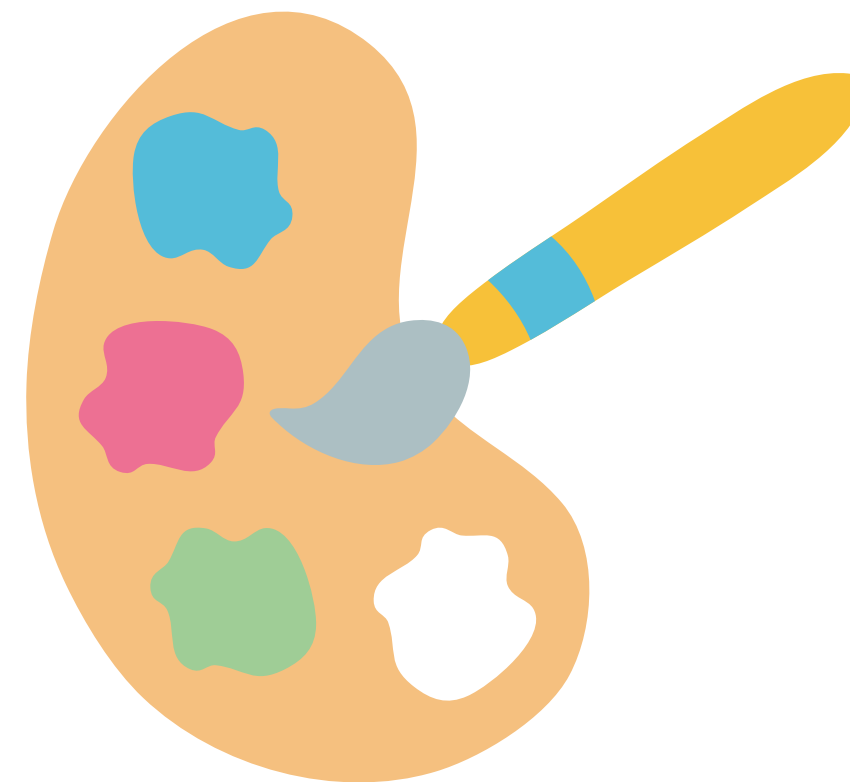


CSS

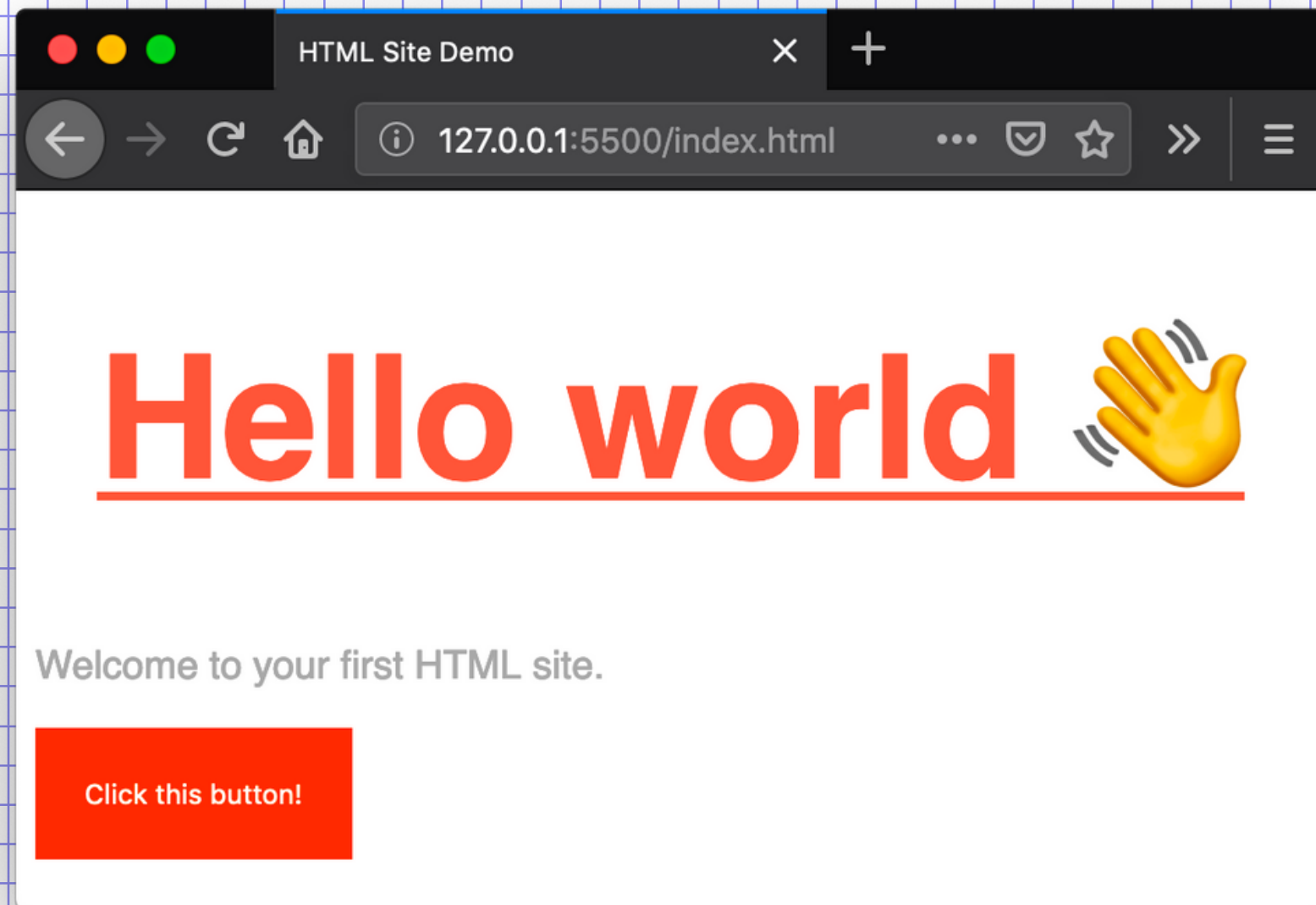
- CSS

- Cascading Style Sheets
- How the HTML elements of a website should actually appear
- Includes color, fonts, background images....
- Connecting to HTML
 - Class
 - Type
- Special Action
 - hover
 - visited
 - active

CSS



CSS Example

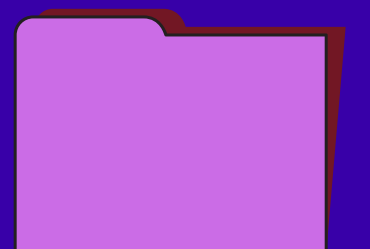
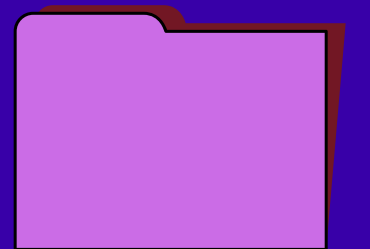
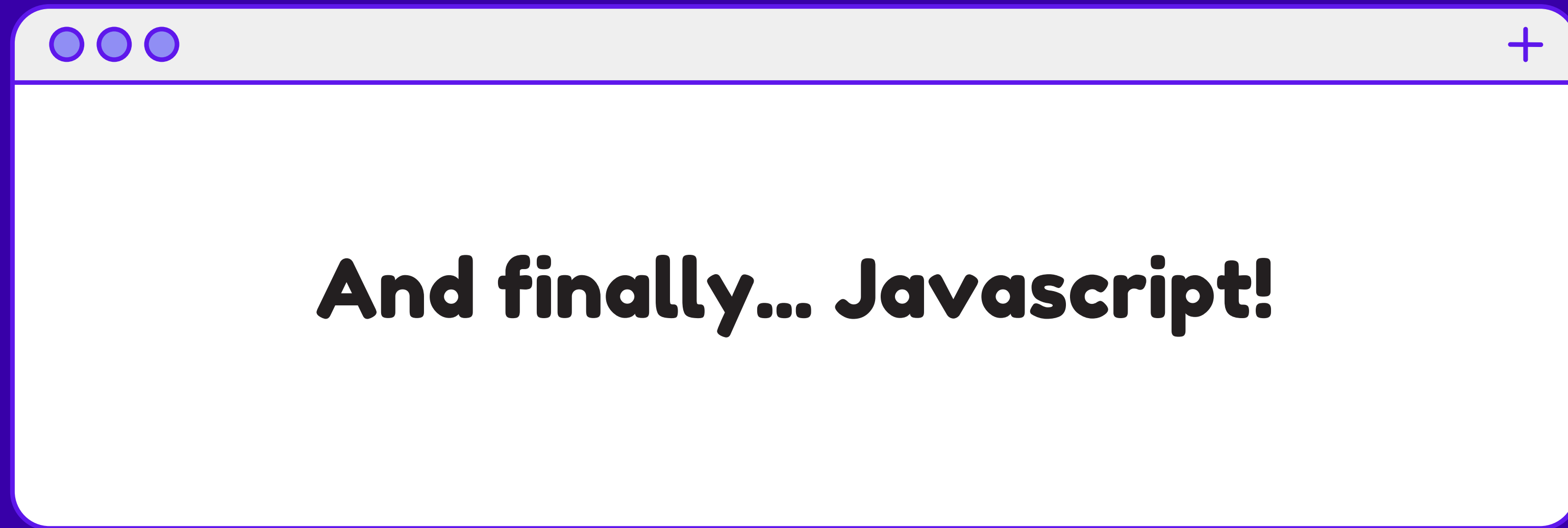


```
h1 {  
  color: tomato;  
  font-size: 70px;  
  font-family: sans-serif;  
  text-decoration: underline;  
  text-align: center;}
```

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

```
.click-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!



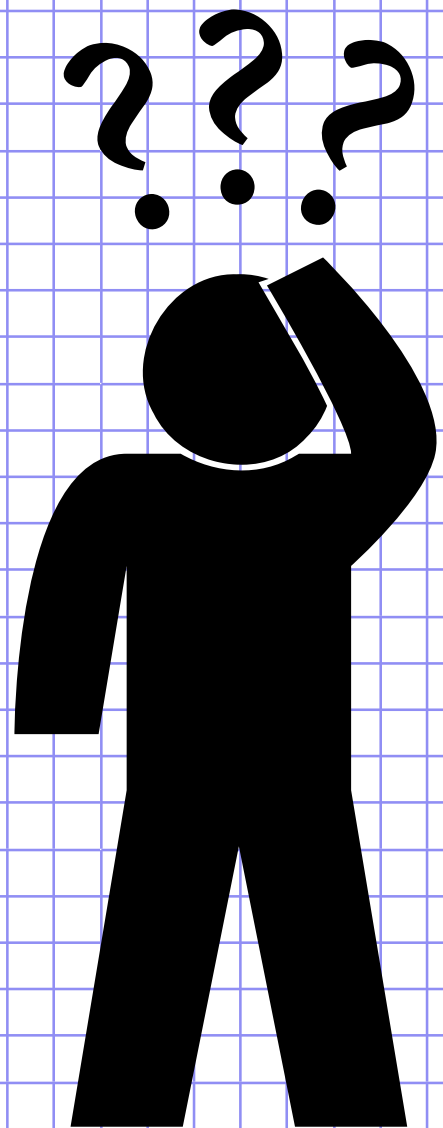
Javascript

- 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



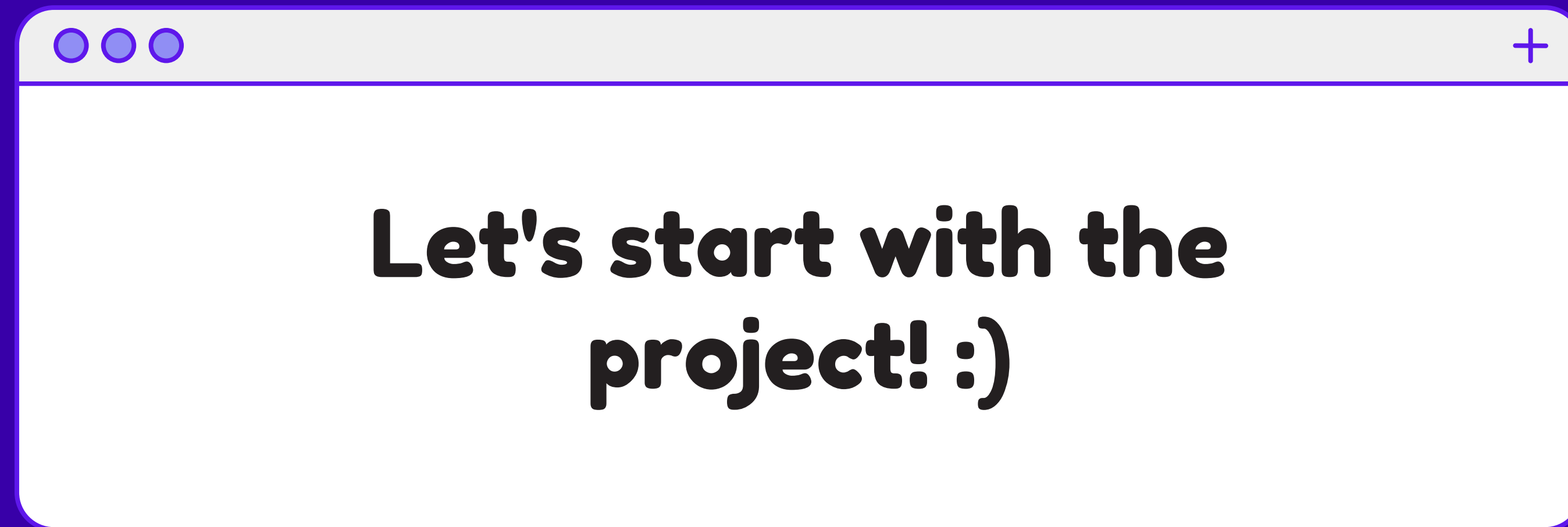
JS Example



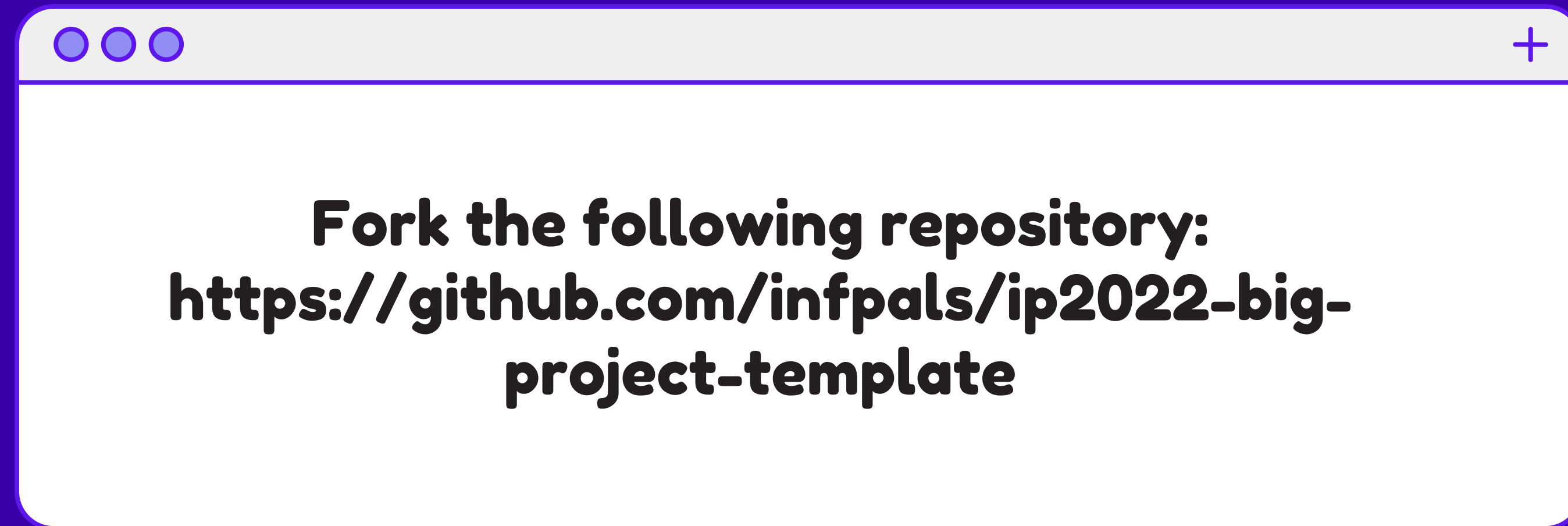
**What do you think this
function does?**

```
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!**

**Fork the following
repository:
[https://github.com
/infpals/ip-2022-
big-project-
template](https://github.com/infpals/ip-2022-big-project-template)**

- 
- 1. Install Visual Studio Code.**
 - 2. Install Live Server:**
**[https://marketplace.visualstudio.com/items?
itemName=ritwickdey.LiveServer](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!

