

the
structure



HTML



the
style



CSS

the
structure



HTML

+

the
style



CSS

+

the
interaction



JAVASCRIPT

JavaScript (not Java)

The programming language of the Web for interaction and behavior.

Core programming concepts, including methods, variables, loops, functions, and conditionals.

- Change HTML content and attributes
- Change CSS
- Listen and react to user interactions (clicking, keyboard, scroll, hover, etc)
- Dynamic!

Data Types

Numbers

2

57

1039.6418

9 + 7

12 / 6

Strings

"Hi"

'Hello World!'

"A 'Hello, World!' program is a computer program that outputs 'Hello, World!' to a user."

Variables

```
const myMessage = "Hello, World!";
```

```
const firstName = "Patricia";
```

```
const x = 5;
```

```
const y = 6;
```

```
const z = x + y;
```

- Variables are containers for data.
- Variables must begin with a letter or an underscore.
- Variables must not contain spaces or special characters.
- Variable names are case sensitive.

Statements

```
const myMessage = "Hello, World!";
```

```
const x = 5;
```

```
document.getElementById("demo").innerHTML = "Hello Dolly.";
```

- Statements are instructions.

- Statements can have different formats.

Functions

```
function helloYou() {  
    document.getElementById("demo1").innerHTML = "Hello Dolly!";  
    document.getElementById("demo2").innerHTML = "How are you?";  
}
```

- Functions are blocks of code that are designed to perform a specific task and can be reused.

- First define the function name.
- Use lower camelCase.

Where to put Javascript

```
<script>
document.getElementById("demo1").i
nnerHTML = "Hello Dolly!";
</script>
</body>
```

OR

```
<script src="script.js"></script>
</body>
```

- Use the <script> tag.
- Place it before the closing </body> tag.
- Can be placed in a separate file with .js extension.

