

A yellow square containing the letters 'JS' in a bold, black, sans-serif font.

JavaScript Fundamentals

Making a functional website



What is JS?

JavaScript, often abbreviated as JS, is a programming language and core technology of the World Wide Web, alongside HTML and CSS.

JavaScript adds interactivity to websites.

Used by 98% of websites on client side.

Flavours of JavaScript

- Vanilla JavaScript
 - Default version that only runs in the browser
 - Weak typing system (no explicit data types)
- Node.js (runtime environment)
 - Allows you to run JS code on a server computer
 - Includes a package manager (NPM)
- TypeScript
 - A superset of JavaScript, adds a static typing system
 - Created by Microsoft
 - Compiles to vanilla JavaScript to run in browsers

JavaScript Frameworks (Node.js)

- React.js
 - UI library for websites
 - Combines JS and HTML in “JSX” syntax
 - Created by Facebook
- React Native
 - React but for native mobile apps - (Android, iOS)
- Vue.js
 - Web framework for building UI
- Express.js
 - A backend framework for building web APIs in JavaScript

* many many more

Common Keywords

```
var a; // declaring variables (deprecated, do not use)
let a; // recommended over 'var'
const b = 0; // declaring constants
function c(){} // declaring functions
alert("Hello"); // displaying popups
prompt("What's your name?"); // getting input
console.log("Hello!"); // displaying info
```

100 *SECONDS OF*

JS

Let's Code

1. Basics

- Simple calculator app
- <https://www.programiz.com/javascript/online-compiler/>

2. Combining HTML, CSS and JS