**JavaScript Fundamentals**

1. **What Is JavaScript?**

JavaScript is a high-level, [interpreted programming language](https://builtin.com/software-engineering-perspectives/compiler-vs-interpreter) that makes it possible to create interactive web pages and online apps with dynamic functionality. Commonly referred to as the universal language, Javascript is primarily used by developers for [front-end and back-end](https://builtin.com/software-engineering-perspectives/front-end-development) work.

1. **What is I**[**nterpreted programming language**](https://builtin.com/software-engineering-perspectives/compiler-vs-interpreter)**?**

An interpreter programming language is a type of programming language where the source code is executed **line by line** by an interpreter program, rather than being compiled into machine code beforehand.

convert a code written in a high-level language into a lower-level or machine code understood by computers.

1. **How Compilers Work**

A compiler translates code written in a high-level programming language into a lower-level language like assembly language, object code andmachine code (binary 1 and 0 bits). It converts the code ahead of time before the program runs.

1. **How Interpreters Work**

An interpreter translates the code line-by-line when the program is running. You’ve likely used interpreters unknowingly at some point in your work career.

1. **What Are the Different Data Types in JavaScript?**

JavaScript has six [primitive data types](https://builtin.com/software-engineering-perspectives/javascript-array-typeof):

1. Number
2. String
3. Boolean
4. Null
5. Undefined
6. Symbol

It also has two compound data types:

* 1. Object
  2. Array

1. **Primitive and non-primitive Data Types**?

Primitive data types are the built-in data types provided by JavaScript. They represent single values and are not mutable.

Non-primitive data types, also known as reference types, are objects and derived data types. They can store collections of values or more complex entities.