Here's a great video

Introduction to JavaScript

Welcome to the world of JavaScript! Today, having a solid understanding of JavaScript is crucial for anyone who wants to pursue a career in web development. With its versatility and wide-range of applications, JavaScript is one of the most important programming languages to learn. But don't worry, we'll start from the basics and gradually raise the bar. By the end of these tutorials, you'll be well on your way to becoming a JavaScript pro.

What is Programming?

Programming is the art of communicating with computers. Just like some of your friends might understand Hindi, others might understand English, computers understand programming. Think of it as a language that we use to tell computers what to do.

The Dumb Computer

Despite its incredible speed and accuracy, a computer is actually quite "dumb." It can only do exactly what you tell it to do, and nothing more. This means that you have to be very clear and precise in your instructions, or else the computer might do something unexpected. For example, if you asked a person to jump, they would probably know what you meant. But if you asked a computer to jump, it wouldn't have a clue!

This might sound like a hindrance, but it's actually one of the things that makes computers so useful. They can perform complex calculations and processes much faster than a person ever could. For example, if you asked a person to solve the equation 24 + 5, they might take a few seconds to give you the answer of 29. But a computer would solve that equation almost instantly.

ECMAScript: The Standard Behind JavaScript

ECMAScript is the standardized version of JavaScript that helps ensure that code written in JavaScript will work the same way on any computer. ECMAScript has come a long way since its inception, with new features and capabilities added with each new release. In most cases, "JavaScript" and "ECMAScript" can be used interchangeably.

One of the great things about JavaScript is that it's a very forgiving language. It tries to do something with the code you write, even if it's not exactly right, and will only throw an error if you've really messed up.

How to Use JavaScript

There are several ways to use JavaScript, including:

1. In the browser: Most modern browsers have a JavaScript console that you can use to test and run your code.
2. In HTML: You can add JavaScript to your HTML files and run it in the browser. This is a great way to add interactivity to your website.
3. With a runtime environment: One popular runtime environment for JavaScript is Node.js. Node.js was created when a programmer named Ryan Dahl took Google's V8 JavaScript engine and wrapped it in C++. This allows you to run JavaScript code outside of the browser, which is useful for server-side programming.

And, as a bonus, you can also use JavaScript in Replit, even if your computer's specs are low or you're on the go.

In conclusion, learning JavaScript will open up a world of possibilities for you. With its versatility and wide range of applications, there's no limit to what you can accomplish with this powerful programming language. So let's get started!

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