**What is Javascript?**

JavaScript is a programming language used to make web pages more interactive. It's used to create dynamic content, such as animations, pop-ups, and clickable buttons.

It can update and change both HTML and CSS.

**History:**  
JavaScript was created by Brendan Eich in just 10 days in May 1995 while he was working at Netscape Communications Corporation.

Initially, it was called Mocha, then changed to LiveScript before finally being named JavaScript.

**Uses:**

* JavaScript is used on the client side scripting languages, which means that it runs in the browser.
* We can also write server-side code in JavaScript through the use of cross-platform engines like Node.js (Node.js is a runtime environment for JavaScript).
* JavaScript is a text-based language that is supported in many web browsers, including Google Chrome, Internet Explorer, Firefox, and Safari.
* JavaScript is a dynamically typed language, which means that a variable can be reassigned to a different type.

**Steps to Install JavaScript on Windows**  
  
JavaScript itself doesn’t need to be “installed” since it runs directly within web browsers. However, if you want to run JavaScript outside a browser (for example, in a server environment or for testing scripts), you’ll need **Node.js**, which is a JavaScript runtime built on Chrome’s V8 JavaScript engine.  
  
Here are the steps to install Node.js (and by extension, JavaScript) on Windows:  
  
**1. Download Node.js**  
• Go to the [official Node.js website](https://nodejs.org/).  
• You will see two versions available:  
• **LTS (Long Term Support)**: Recommended for most users because it’s stable and has long-term support.  
• **Current**: This version has the latest features but may not be as stable.  
• Download the **LTS** version for Windows.  
  
**2. Run the Installer**  
• Once the installer file is downloaded (.msi file), double-click it to start the installation process.  
• Follow the instructions in the setup wizard. Most users can proceed with the default settings.  
• Be sure to check the box that says **“Add to PATH”** during installation. This ensures that Node.js and npm (Node Package Manager) are accessible from any command prompt.  
  
**3. Verify Installation**  
• After installation, you can check if Node.js was successfully installed by opening **Command Prompt** (press Windows + R, type cmd, and press Enter).  
• Type the following command to check the version of Node.js:  
  
node -v  
  
  
• You should see the version of Node.js that was installed (e.g., v16.0.0).  
• Similarly, to check if **npm** (Node Package Manager) is installed, run:  
  
npm -v  
  
  
• This will display the installed version of npm.  
  
**4. Write and Run JavaScript Code**  
• To write and run JavaScript code, you can use a simple text editor like Notepad, or an Integrated Development Environment (IDE) like Visual Studio Code.

Visual Studio Code IDE - [https://code.visualstudio.com/download](https://www.google.com/url?q=https://code.visualstudio.com/download&sa=D&source=editors&ust=1724233703478354&usg=AOvVaw0CAJcQdhyUkOD7-7Hffhb-)

• Create a new JavaScript file (e.g., app.js), write some JavaScript code like:  
  
console.log("Hello, world!");  
  
  
• Save the file and open Command Prompt.  
• Navigate to the folder where your app.js file is located using the cd command:  
  
cd path\to\your\file  
  
  
• Run your JavaScript file by typing:  
  
node app.js  
  
  
• You should see the output in the console: Hello, world!