

Node.js and Visual Studio Code Installation Guide

Step-by-Step Tutorial: Installing Node.js and Visual Studio Code on Windows, and Running a 'Hello, World' JavaScript File

1. Installing Node.js on Windows

Step 1.1: Download Node.js Installer

1. Open your web browser and go to the Node.js official website (<https://nodejs.org/>).
2. You will see two versions: LTS (Long Term Support) and the Current version. It's recommended to download the LTS version for stability.
3. Click on the LTS version to download the installer.

Step 1.2: Run the Installer

1. Once the download is complete, double-click the installer file (.msi file) to run it.
2. Click Next on the setup wizard.
3. Accept the License Agreement and click Next.
4. Choose the destination folder (or leave it as the default) and click Next.
5. Make sure the 'Add to PATH' option is selected (it usually is by default), then click Next.
6. Click Install to begin the installation.
7. Once the installation is complete, click Finish.

Step 1.3: Verify Node.js Installation

1. Open the Command Prompt (search for 'cmd' in the Start menu and open it).
2. Type `node -v` and press Enter. This should display the version number of Node.js.`
3. Also, type `npm -v` and press Enter. This will display the version number of npm (Node Package`

Manager), which is installed with Node.js.

2. Installing Visual Studio Code on Windows

Step 2.1: Download Visual Studio Code Installer

1. Open your web browser and go to the Visual Studio Code official website (<https://code.visualstudio.com/>).
2. Click on the Download for Windows button.

Step 2.2: Run the Installer

1. Once the download is complete, double-click the installer file (.exe file) to run it.
2. Read and accept the License Agreement, then click Next.
3. Choose the destination folder (or leave it as the default) and click Next.
4. You can choose additional tasks such as adding a 'Code' option to the right-click context menu. Select the options you prefer, then click Next.
5. Click Install to begin the installation.
6. Once the installation is complete, click Finish. Visual Studio Code will open automatically.

3. Creating and Running a 'Hello, World' JavaScript File

Step 3.1: Create a New JavaScript File

1. Open Visual Studio Code.
2. Click on File in the top menu, then select New File.
3. In the new file, type the following code:

```
console.log('Hello, World');
```

4. Click on File in the top menu, then select Save As.
5. Choose a location to save your file, name it `hello.js`, and click Save.

Step 3.2: Running the JavaScript File in Node.js

1. Open the Command Prompt.
2. Use the `cd` command to navigate to the directory where you saved your `hello.js` file. For example:

```
cd C:\Users\YourUsername\path\to\file
```

3. Once you're in the correct directory, type the following command and press Enter:

```
node hello.js
```

4. You should see the output `Hello, World` printed in the Command Prompt.

Conclusion

You've successfully installed Node.js and Visual Studio Code on your Windows system, created a simple JavaScript file, and executed it using Node.js!