

Learn C#: Setting Up Environment

VSCode Advanced Features

Visual Studio offers advanced features for C# development, including debugging and project management tools.

Individual **projects** are managed by placing related projects into **solutions**, which are managed through the **Solution Explorer** view.

C# Development Prerequisites

Setting up a C# development environment in VS Code requires the following prerequisites:

- Windows, macOS, or Linux
- VS Code installation

The .NET SDK and Runtime

Manually installing the .NET SDK ensures that the necessary tools and runtimes are available for C# development.

Setting Up a C# Development Environment

The process for setting up a C# development environment includes:

- Manually installing the .NET SDK and runtime.
- Configuring VS Code settings to match specific development needs.
- [The .NET SDK download](#)
- Settings can be accessed via **File > Preferences > Settings**, or the keyboard shortcut **Ctrl+,** or using **Preferences: Open Settings** in the Command Palette.
- There are **Workspace** and **User** settings. User settings apply to the whole IDE. Workspace settings only apply when a specific workspace is opened.

VSCode Settings

Configuration settings in VSCode can be tailored to enhance the development experience.

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Customizing VSCode Settings

Customizing VS Code settings, like indent width, can improve productivity and code quality.

Indent width can be set from **User** or **Workspace Settings** by overriding the entries for **Editor: Tab Size** and **Editor: Insert Spaces**.

.NET SDK Configuration

Configuration settings for the .NET SDK can be adjusted during the installation process to meet specific requirements.

VS Code Snippets

Advanced customization of VS Code includes creating and managing snippets to streamline coding tasks.

VS Code can use snippets from the following sources:

- **Built-in:** VS Code has built-in snippets for a variety of languages.
- **Marketplace:** You can download snippets from the VS Code Marketplace.
- **Create your own:** You can write your own snippets using **File > Preferences > Configure User Snippets**.

Visual Studio Workloads

The Visual Studio installation process involves selecting appropriate workloads, such as .NET desktop development, ASP.NET, and web development.

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