

# 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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