Visual Studio SDK

原文：<https://docs.microsoft.com/zh-cn/visualstudio/extensibility/visual-studio-sdk>

The Visual Studio SDK helps you extend Visual Studio features or integrate new features into Visual Studio. You can distribute your extensions to other users, as well as to the Visual Studio Gallery. The following are some of the ways in which you can extend Visual Studio:

Add commands, buttons, menus, and other UI elements to the IDE

Add tool windows for new functionality

Extend IntelliSense for a given language, or provide IntelliSense for new programming languages

Use light bulbs to provide hints and suggestions that help developers write better code

Enable support for a new language

Add a custom project type

Reach millions of developers via the Visual Studio Gallery

If you've never written a Visual Studio extension before, you should find more information about these features and at [Starting to Develop Visual Studio Extensions](https://docs.microsoft.com/zh-cn/visualstudio/extensibility/starting-to-develop-visual-studio-extensions).

Installing the Visual Studio SDK

The Visual Studio SDK is an optional feature in Visual Studio setup. You can also install the VS SDK later on. For more information, see [Installing the Visual Studio SDK](https://docs.microsoft.com/zh-cn/visualstudio/extensibility/installing-the-visual-studio-sdk).

What's New in the Visual Studio 2017 SDK

The Visual Studio SDK has some new features such as support for Lightweight Solution Load and the VSIX v3 format as well as breaking changes which may require you to update your extension. For more information, see [What's New in the Visual Studio 2017 SDK](https://docs.microsoft.com/zh-cn/visualstudio/extensibility/what-s-new-in-the-visual-studio-2017-sdk).

Visual Studio User Experience Guidelines

Get great tips for designing the UI for your extension in [Visual Studio User Experience Guidelines](https://docs.microsoft.com/zh-cn/visualstudio/extensibility/ux-guidelines/visual-studio-user-experience-guidelines).

You can also learn how to make your extension look great on high DPI devices with our [Addressing DPI Issues](Add commands, buttons, menus, and other UI elements t) topic.

Take advantage of the [Image Service and Catalog](Add commands, buttons, menus, and other UI elements t) for great image management and support for high DPI and theming.

Finding and Installing Existing Visual Studio Extensions

You can find Visual Studio extensions in the Extensions and Updates dialog on the Tools menu. For more information, see [Finding and Using Visual Studio Extensions](https://docs.microsoft.com/zh-cn/visualstudio/ide/finding-and-using-visual-studio-extensions). You can also find extensions in the [Visual Studio Gallery](https://visualstudiogallery.msdn.microsoft.com/)

Visual Studio SDK Reference

You can find the Visual Studio SDK API reference at [Visual Studio SDK Reference](https://docs.microsoft.com/zh-cn/visualstudio/extensibility/visual-studio-sdk-reference).

Visual Studio SDK Samples

You can find open source examples of VS SDK extensions on GitHub at [Visual Studio Samples](https://aka.ms/vs2015sdksamples). This GitHub repo contains samples that illustrate various extensible features in Visual Studio.

Other Visual Studio SDK Resources

If you have questions about the VSSDK or want to share your experiences developing extensions, you can use the [Visual Studio Extensibility Forum](https://social.msdn.microsoft.com/Forums/vstudio/home?forum=vsx) or the [ExtendVS Group Chat](https://gitter.im/Microsoft/extendvs).

You can find more information in the [VSX Arcana blog](http://blogs.msdn.com/b/vsx/) and an number of blogs written by Microsoft MVPs:

[Favorite Visual Studio Extensions](http://geekswithblogs.net/sdorman/archive/2014/10/05/favorite-visual-studio-extensions.aspx)

[Visual Studio Extensibility](http://www.visualstudioextensibility.com/overview/vs/)

[Extending Visual Studio](http://blog.slaks.net/2013-10-18/extending-visual-studio-part-1-getting-started/)

See Also

[Creating an Extension with a Menu Command](https://docs.microsoft.com/zh-cn/visualstudio/extensibility/creating-an-extension-with-a-menu-command)

[How to: Migrate Extensibility Projects to Visual Studio 2017](https://docs.microsoft.com/zh-cn/visualstudio/extensibility/how-to-migrate-extensibility-projects-to-visual-studio-2017)

[FAQ: Converting Add-ins to VSPackage Extensions](https://docs.microsoft.com/zh-cn/visualstudio/extensibility/faq-converting-add-ins-to-vspackage-extensions)

[Managing Multiple Threads in Managed Code](https://docs.microsoft.com/zh-cn/visualstudio/extensibility/managing-multiple-threads-in-managed-code)

[Extending Menus and Commands](https://docs.microsoft.com/zh-cn/visualstudio/extensibility/extending-menus-and-commands)

[Adding Commands to Toolbars](https://docs.microsoft.com/zh-cn/visualstudio/extensibility/adding-commands-to-toolbars)

[Extending and Customizing Tool Windows](https://docs.microsoft.com/zh-cn/visualstudio/extensibility/extending-and-customizing-tool-windows)

[Editor and Language Service Extensions](https://docs.microsoft.com/zh-cn/visualstudio/extensibility/editor-and-language-service-extensions)

[Extending Projects](https://docs.microsoft.com/zh-cn/visualstudio/extensibility/extending-projects)

[Extending User Settings and Options](https://docs.microsoft.com/zh-cn/visualstudio/extensibility/extending-user-settings-and-options)

[Creating Custom Project and Item Templates](https://docs.microsoft.com/zh-cn/visualstudio/extensibility/creating-custom-project-and-item-templates)

[Extending Properties and the Property Window](https://docs.microsoft.com/zh-cn/visualstudio/extensibility/extending-properties-and-the-property-window)

[Extending Other Parts of Visual Studio](https://docs.microsoft.com/zh-cn/visualstudio/extensibility/extending-other-parts-of-visual-studio)

[Using and Providing Services](https://docs.microsoft.com/zh-cn/visualstudio/extensibility/using-and-providing-services)

[Managing VSPackages](https://docs.microsoft.com/zh-cn/visualstudio/extensibility/managing-vspackages)

[Visual Studio Isolated Shell](https://docs.microsoft.com/zh-cn/visualstudio/extensibility/visual-studio-isolated-shell)

[Shipping Visual Studio Extensions](https://docs.microsoft.com/zh-cn/visualstudio/extensibility/shipping-visual-studio-extensions)

[Inside the Visual Studio SDK](https://docs.microsoft.com/zh-cn/visualstudio/extensibility/internals/inside-the-visual-studio-sdk)

[Support for the Visual Studio SDK](https://docs.microsoft.com/zh-cn/visualstudio/extensibility/support-for-the-visual-studio-sdk)

[Archive](https://docs.microsoft.com/zh-cn/visualstudio/extensibility/archive)

[Visual Studio SDK Reference](https://docs.microsoft.com/zh-cn/visualstudio/extensibility/visual-studio-sdk-reference)