# Visual Studio 2022扩展开发入门

## 课前准备（1）

1. 认识VS扩展

|  |  |
| --- | --- |
| <Grid>  <Button  Width="85"  **Background="Azure"**  **Foreground="Black"**  Height="42"  Margin="95,102,0,0"  HorizontalAlignment="Left"  VerticalAlignment="Top"  Content="Button" />  </Grid> | <Grid>  <Button  Width="85"  Height="42"  Margin="95,102,0,0"  HorizontalAlignment="Left"  VerticalAlignment="Top"  **Background="Azure"**  Content="Button"  **Foreground="Black"** />  </Grid> |

<https://github.com/Xavalon/XamlStyler/>

1. 扩展开发环境搭建

C:\Users\Zmrbak\.nuget\packages\microsoft.vssdk.buildtools\15.9.3032\tools\VSSDK\Microsoft.VsSDK.targets(752,5): error : Extension '0c572937-0d4a-48cc-aa3f-875ffa9805ba' is of the same or lower version than the installed extension. Please make sure that the extension version is higher than that of the installed extension.

========== 全部重新生成: 成功 2 个，失败 1 个，跳过 0 个 ==========

* 卸载已安装的扩展
* **提供新版本号**

**source.extension.vsixmanifest**

<Identity Id="**8C9E25DA-8380-484D-8BDC-5D8120A07E19**" Version="3.2.0.0" Language="en-US" Publisher="Xavalon" />

* 不予理会

1. **Visual Studio 2022** <http://www.microsoft.com>

工作负荷：**Visual Studio 扩展开发**

5>C:\Users\Zmrbak\.nuget\packages\microsoft.vssdk.buildtools\15.9.3032\tools\VSSDK\Microsoft.VsSDK.targets(87,5): error MSB4062: 未能从程序集 C:\Users\Zmrbak\.nuget\packages\microsoft.vssdk.buildtools\15.9.3032\tools\VSSDK\Microsoft.VisualStudio.Sdk.BuildTasks.15.0.dll 加载任务“CompareBuildTaskVersion”。

Could not load file or assembly 'file:///C:\Users\Zmrbak\.nuget\packages\microsoft.vssdk.buildtools\15.9.3032\tools\VSSDK\Microsoft.VisualStudio.Sdk.BuildTasks.15.0.dll' or one of its dependencies.

试图加载格式不正确的程序。 请确认 <UsingTask> 声明正确，该程序集及其所有依赖项都可用，并且该任务包含实现 Microsoft.Build.Framework.ITask 的公共类。

1. 本课程目的：移植XamlStyler扩展到Visual Studio 2022
2. 课程源代码：<https://github.com/zmrbak/VSIX2022>
3. 如何下载课程源代码

## 课前准备（2）

## VSIX项目文件结构（1）

目标框架：.NET Framework 4.7.2

<Assets>

<Asset

Type="**Microsoft.VisualStudio.VsPackage**"

d:Source="Project"

d:ProjectName="%CurrentProject%"

Path="|%CurrentProject%;PkgdefProjectOutputGroup|" />

</Assets>

C:\Users\lib\**.nuget**\packages\microsoft.visualstudio.shell.15.0\17.0.0-previews-1-31410-258\lib\net472\Microsoft.VisualStudio.**Shell**.15.0.dll

## VSIX项目文件结构（2）

## 向VS菜单中添加菜单项（1）

Microsoft.VisualStudio.Interop.dll

namespace Microsoft.VisualStudio.Shell.Interop

{

public enum OLEMSG**ICON**

{

OLEMSGICON\_NOICON,

OLEMSGICON\_CRITICAL,

OLEMSGICON\_QUERY,

OLEMSGICON\_WARNING,

OLEMSGICON\_INFO

}

}

namespace Microsoft.VisualStudio.Shell.Interop

{

public enum OLEMSG**BUTTON**

{

OLEMSGBUTTON\_OK,

OLEMSGBUTTON\_OKCANCEL,

OLEMSGBUTTON\_ABORTRETRYIGNORE,

OLEMSGBUTTON\_YESNOCANCEL,

OLEMSGBUTTON\_YESNO,

OLEMSGBUTTON\_RETRYCANCEL,

OLEMSGBUTTON\_YES**ALL**NOCANCEL

}

}

namespace Microsoft.VisualStudio.Shell.Interop

{

public enum OLEMSG**DEF**BUTTON

{

OLEMSGDEFBUTTON\_FIRST,

OLEMSGDEFBUTTON\_SECOND,

OLEMSGDEFBUTTON\_THIRD,

OLEMSGDEFBUTTON\_FOURTH

}

}

C:\Program Files\Microsoft Visual Studio\2022\Preview\**VS**SDK\VisualStudioIntegration\Common\Inc

## 向VS菜单中添加菜单项（2）

## 向VS菜单中添加菜单项（3）

## 向VS中注册一个事件（1）

Comment Remover

<https://github.com/madskristensen/CommentRemover>

[ProvideAutoLoad(VSIX08Package.UIContextGuidString, PackageAutoLoadFlags.BackgroundLoad)]

[ProvideUIContextRule(VSIX08Package.UIContextGuidString, name: "XAML load", expression: "Dotxaml", termNames: new[] { "Dotxaml" }, termValues: new[] { "HierSingleSelectionName:.xaml$" })]

VSConstants

CommandEvents

DTE

## 向VS中注册一个事件（2）

## 命令菜单组与命令ID

<https://github.com/madskristensen/ExtensibilityTools>

HKEY\_CURRENT\_USER\SOFTWARE\Microsoft\VisualStudio\17.0abc\General

EnableVSIPLogging DWORD with value 1

关闭注册表编辑器

重新启动VS2022

Hold Ctrl + Shift and interact with IDE

<https://github.com/madskristensen/CommandTableInfo/>

<GuidSymbol name="guidVSIX10PackageCmdSet" value="{5f0f5edc-575e-4d1e-8696-af66dc792868}">

<IDSymbol name="MyMenuGroup" value="0x1020" />

<IDSymbol name="Command1Id" value="0x0100" />

</GuidSymbol>

public static readonly Guid CommandSet = new Guid("5f0f5edc-575e-4d1e-8696-af66dc792868");

5f0f5edc-575e-4d1e-8696-af66dc792868

5f0f5edc-575e-4d1e-8696-af66dc792868

public const int CommandId = 0x0100;

<IDSymbol name="Command1Id" value="0x0100" />

## VS扩展开发“扩展套装”：Extensibility Essentials（1）

Extensibility Essentials 2022

1. VSIX Synchronizer
2. Insert Guid
3. Image Optimizer
4. Command Explorer
5. Settings Store Explorer
6. KnownMonikers Explorer

**<Include href="KnownImageIds.vsct"/>**

<Button guid="guidVSIX11PackageCmdSet" id="Command1Id" priority="0x0100" type="Button">

<Parent guid="guidVSIX11PackageCmdSet" id="MyMenuGroup" />

**<Icon guid="ImageCatalogGuid" id="Action" />**

**<CommandFlag>IconIsMoniker</CommandFlag>**

<Strings>

<ButtonText>VSXI11.1 Command</ButtonText>

</Strings>

</Button>

1. Clean MEF Component Cache
2. VSCT IntelliSense
3. Image Manifest Tools
4. **Extensibility Logs**
5. Pkgdef Language
6. Extensibility Template Pack

Comment Remover

## VS扩展开发“扩展套装”：Extensibility Essentials（2）

## VS扩展开发“扩展套装”：Extensibility Essentials（3）

## 向菜单命令绑定键盘快捷键

CTRL+1,CTRL+2

<KeyBindings>

<KeyBinding guid="guidVSIX14Package**CmdSet**" id="**Command1Id**" editor="**guidVSStd97**" key1="1" mod1="CONTROL" key2="2" mod2="CONTROL">

</KeyBinding>

</KeyBindings>