



RSCG Examples > RSCG - CommunityToolkit.Mvvm

CommunityToolkit.Mvvm by Microsoft

CommunityToolkit.Mvvm 1.3M updated today Stars 2.1k



Details

Info

(!) INFO

Name: CommunityToolkit.Mvvm

Author: Microsoft

NuGet: https://www.nuget.org/packages/CommunityToolkit.Mvvm

You can find more details at https://learn.microsoft.com/en-us/dotnet/ communitytoolkit/mvvm/generators/overview

Source: https://github.com/CommunityToolkit/dotnet

About



Skip to main content Shows how to implement INotifyPropertyChanged,ObservableProperty and RelayCommand

Unfortunately, not yet a separate package just for those.

Also, this show that RSCG could generate multiple partial declarations

How to use

Example (source csproj, source files)

CSharp Project Program.cs MyViewModel.cs

This is the CSharp Project that references **CommunityToolkit.Mvvm**

This is the use of **CommunityToolkit.Mvvm** in *Program.cs*

```
// See https://aka.ms/new-console-template for more information
using test;

Console.WriteLine("Hello, World!");

MyViewModel myViewModel = new();
myViewModel.Name = "Andrei";
var x=myViewModel.SayHelloCommand;
```

This is the use of **CommunityToolkit.Mvvm** in *MyViewModel.cs*

```
using CommunityToolkit.Mvvm.ComponentModel;
using CommunityToolkit.Mvvm.Input;

namespace test;

[INotifyPropertyChanged]
public partial class MyViewModel
{
     [ObservableProperty]
     private string? name;

     [RelayCommand]
     private void SayHello()
     {
          Console.WriteLine("Hello");
     }
}
```

Generated Files

Those are taken from \$(BaseIntermediateOutputPath)\GeneratedX

test.MyViewModel.g.cs test.MyViewModel.g.cs

 $\underline{\hspace{0.5cm}} Known IN ot if y Property Changed Args. g.cs \\ \underline{\hspace{0.5cm}} test. My View Model. Say Hello. g.cs \\$

```
// <auto-generated/>
#pragma warning disable
#nullable enable
namespace test
   /// <inheritdoc/>
   partial class MyViewModel : global::System.ComponentModel.INotifyPropertyChanged
       /// <inheritdoc cref = "global::System.ComponentModel.INotifyPropertyChanged."
[global::System.CodeDom.Compiler.GeneratedCode("CommunityToolkit.Mvvm.SourceGenerator
"8.2.0.0")]
        [global::System.Diagnostics.CodeAnalysis.ExcludeFromCodeCoverage]
        public event global::System.ComponentModel.PropertyChangedEventHandler? Prope
       /// <summary>
       /// Raises the <see cref = "PropertyChanged"/> event.
       /// </summary>
       /// <param name = "e">The input <see cref = "global::System.ComponentModel.Pr
instance.
[global::System.CodeDom.Compiler.GeneratedCode("CommunityToolkit.Mvvm.SourceGenerator
"8.2.0.0")]
        [global::System.Diagnostics.DebuggerNonUserCode]
        [global::System.Diagnostics.CodeAnalysis.ExcludeFromCodeCoverage]
```

```
// <auto-generated/>
#pragma warning disable
#nullable enable
namespace test
    /// <inheritdoc/>
    partial class MyViewModel
        /// <inheritdoc cref="name"/>
[global::System.CodeDom.Compiler.GeneratedCode("CommunityToolkit.Mvvm.SourceGenerator
"8.2.0.0")]
        [global::System.Diagnostics.CodeAnalysis.ExcludeFromCodeCoverage]
        public string? Name
            get => name;
            set
                if (!global::System.Collections.Generic.EqualityComparer<string?>.Def
                    OnNameChanging(value);
                    OnNameChanging(default, value);
                    name = value;
                    OnNameChanged(value);
                    OnNameChanged(default, value);
OnPropertyChanged(global::CommunityToolkit.Mvvm.ComponentModel.__Internals.__KnownINo
            }
        }
        /// <summary>Executes the logic for when <see cref="Name"/> is changing.</sum
        /// <param name="value">The new property value being set.</param>
        /// <remarks>This method is invoked right before the value of <see cref="Name"
[global::System.CodeDom.Compiler.GeneratedCode("CommunityToolkit.Mvvm.SourceGenerator
```

```
// <auto-generated/>
#pragma warning disable
#nullable enable
namespace CommunityToolkit.Mvvm.ComponentModel.__Internals
    /// <summary>
   /// A helper type providing cached, reusable <see cref="global::System.ComponentM
instances
   /// for all properties generated with <see
cref="qlobal::CommunityToolkit.Mvvm.ComponentModel.ObservablePropertyAttribute"/>.
    /// </summary>
[global::System.CodeDom.Compiler.GeneratedCode("CommunityToolkit.Mvvm.SourceGenerator
"8.2.0.0")]
    [global::System.Diagnostics.DebuggerNonUserCode]
    [global::System.Diagnostics.CodeAnalysis.ExcludeFromCodeCoverage]
    [global::System.ComponentModel.EditorBrowsable(global::System.ComponentModel.Edit
    [global::System.Obsolete("This type is not intended to be used directly by user c
    internal static class __KnownINotifyPropertyChangedArgs
        /// <summary>The cached <see cref="global::System.ComponentModel.PropertyChange"
"Name" generated properties.</summary>
        [global::System.ComponentModel.EditorBrowsable(global::System.ComponentModel.
        [global::System.Obsolete("This field is not intended to be referenced directl")
        public static readonly global::System.ComponentModel.PropertyChangedEventArgs
global::System.ComponentModel.PropertyChangedEventArgs("Name");
    }
}
// <auto-generated/>
#pragma warning disable
#nullable enable
namespace test
    /// <inheritdoc/>
```

Usefull

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TIE

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https://ignatandrei.github.io/RSCG_Examples/v2/docs/CommunityToolkit.Mvvm