



Microsoft.Extensions.Logging by Microsoft

Microsoft.Extensions.Logging 2G updated today  Stars 12k

Details

Info

! INFO

Name: **Microsoft.Extensions.Logging**

Author: Microsoft

NuGet: <https://www.nuget.org/packages/Microsoft.Extensions.Logging/>

You can find more details at <https://learn.microsoft.com/en-us/dotnet/core/extensions/logger-message-generator-generators/>

Source : <https://github.com/dotnet/runtime>

About

i NOTE

Logging defined and compiled

How to use

Example (source csproj, source files)

CSharp Project

Program.cs

LogDemo.cs

This is the CSharp Project that references **Microsoft.Extensions.Logging**

```
<Project Sdk="Microsoft.NET.Sdk">

  <PropertyGroup>
    <OutputType>Exe</OutputType>
    <TargetFramework>net7.0</TargetFramework>
    <ImplicitUsings>enable</ImplicitUsings>
    <Nullable>enable</Nullable>
  </PropertyGroup>
  <PropertyGroup>
    <EmitCompilerGeneratedFiles>true</EmitCompilerGeneratedFiles>

    <CompilerGeneratedFilesOutputPath>$(BaseIntermediateOutputPath)\GeneratedX</CompilerGeneratedFilesOutputPath>
  </PropertyGroup>
  <ItemGroup>
    <PackageReference Include="Microsoft.Extensions.Logging.Console" Version="7.0.0" />
  </ItemGroup>
</Project>
```

This is the use of **Microsoft.Extensions.Logging** in *Program.cs*

```
using System.Text.Json;
using Microsoft.Extensions.Logging;
```

This is the use of **Microsoft.Extensions.Logging** in *LogDemo.cs*

```
using Microsoft.Extensions.Logging;

public partial class LoggingSample
{
    private readonly ILogger _logger;

    public LoggingSample(ILogger logger)
    {
        _logger = logger;
    }

    [LoggerMessage(
        EventId = 20,
        Level = LogLevel.Critical,
        Message = "Value is {value:E}")]
    public static partial void UsingFormatSpecifier(
        ILogger logger, double value);

    [LoggerMessage(
        EventId = 9,
        Level = LogLevel.Trace,
        Message = "Fixed message",
        EventName = "CustomEventName")]
    public partial void LogWithCustomEventName();

    [LoggerMessage(
        EventId = 10,
        Message = "Welcome to {city} {province}!")]
    public partial void LogWithDynamicLogLevel(
        string city, LogLevel level, string province);

    public void TestLogging()
    {
        LogWithCustomEventName();
    }
}
```

Generated Files

Those are taken from \$(BaseIntermediateOutputPath)\GeneratedX

LoggerMessage.g.cs

```
// <auto-generated/>
#nullable enable

partial class LoggingSample
{
    [global::System.CodeDom.Compiler.GeneratedCodeAttribute("Microsoft.Extensions.Logging", "1.0.0"), private static readonly global::System.Action<global::Microsoft.Extensions.Logging.LoggerMessage> __UsingFormatSpecifierCallback =
        global::Microsoft.Extensions.Logging.LoggerMessage.Define<global::System.Double>(global::Microsoft.Extensions.Logging.EventId(20, nameof(UsingFormatSpecifier)), "Fixed message", global::Microsoft.Extensions.Logging.LogDefineOptions() { SkipEnabledCheck = true });

    [global::System.CodeDom.Compiler.GeneratedCodeAttribute("Microsoft.Extensions.Logging", "1.0.0"), public static partial void UsingFormatSpecifier(global::Microsoft.Extensions.Logging.Logger logger, global::System.Double value)
    {
        if (logger.IsEnabled(global::Microsoft.Extensions.Logging.LogLevel.Critical))
        {
            __UsingFormatSpecifierCallback(logger, value, null);
        }
    }

    [global::System.CodeDom.Compiler.GeneratedCodeAttribute("Microsoft.Extensions.Logging", "1.0.0"), private static readonly global::System.Action<global::Microsoft.Extensions.Logging.LoggerMessage> __LogWithCustomEventNameCallback =
        global::Microsoft.Extensions.Logging.LoggerMessage.Define(global::Microsoft.Extensions.Logging.EventId(9, "CustomEventName"), "Fixed message", global::Microsoft.Extensions.Logging.LogDefineOptions() { SkipEnabledCheck = true });
```

Usefull

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https://ignatandrei.github.io/RSCG_Examples/v2/docs/Microsoft.Extensions.Logging

