





RSCG Examples > RSCG - System.Text.Json

System.Text.Json by **Microsoft**





Details

Info



Name: System.Text.Json

Author: Microsoft

NuGet: https://www.nuget.org/packages/System.Text.Json/

You can find more details at https://learn.microsoft.com/en-us/dotnet/standard/ serialization/system-text-json/source-generation

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

About



Json Serialize without reflection

Skip to main content

How to use

Example (source csproj, source files)

CSharp Project Program.cs WeatherForecast.cs

OptionsExampleContext.cs

This is the CSharp Project that references **System.Text.Json**

This is the use of **System.Text.Json** in *Program.cs*

```
using JsonSerializerOptionsExample;
```

This is the use of **System.Text.Json** in *WeatherForecast.cs*

```
namespace JsonSerializerOptionsExample;

public class WeatherForecast
{
    public DateTime Date { get; set; }
    public int TemperatureCelsius { get; set; }
    public string? Summary { get; set; }
}
```

This is the use of **System.Text.Json** in *OptionsExampleContext.cs*

```
using System.Text.Json.Serialization;
namespace JsonSerializerOptionsExample;

[JsonSerializable(typeof(WeatherForecast))]
internal partial class OptionsExampleContext : JsonSerializerContext
{
}
```

Generated Files

Those are taken from \$(BaseIntermediateOutputPath)\GeneratedX

OptionsExampleContext.GetJsonTypeInfo.g.cs

OptionsExampleContext.Int32.g.cs

OptionsExampleContext.PropertyNames.g.cs

OptionsExampleContext.String.g.cs

RegexGenerator.g.cs

```
#nullable enable annotations
#nullable disable warnings

// Suppress warnings about [Obsolete] member usage in generated code.
#pragma warning disable CS0618

namespace JsonSerializerOptionsExample
{
   internal partial class OptionsExampleContext
   {
      private global::System.Text.Json.Serialization.Metadata.JsonTypeInfo<global::
      /// <summary>
      /// Defines the source generated JSON serialization contract metadata for a g
      /// </summary>
```

```
// <auto-generated/>
#nullable enable annotations
#nullable disable warnings
// Suppress warnings about [Obsolete] member usage in generated code.
#pragma warning disable CS0618
namespace JsonSerializerOptionsExample
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Jso
"7.0.8.17405")]
            internal partial class OptionsExampleContext
            {
                        private static global::System.Text.Json.JsonSerializerOptions s_defaultOption
} = new global::System.Text.Json.JsonSerializerOptions()
                                    DefaultIgnoreCondition =
global::System.Text.Json.Serialization.JsonIgnoreCondition.Never,
                                    IgnoreReadOnlyFields = false,
                                    IgnoreReadOnlyProperties = false,
                                    IncludeFields = false,
                                   WriteIndented = false,
                       };
                        private static global::JsonSerializerOptionsExample.OptionsExampleContext?
s_defaultContext;
                       /// <summary>
                       /// The default <see
cref="global::System.Text.Json.Serialization.JsonSerializerContext"/> associated with
<see cref="global::System.Text.Json.JsonSerializerOptions"/> instance.
                       /// </summary>
```

```
// <auto-generated/>
#nullable enable annotations
#nullable disable warnings
// Suppress warnings about [Obsolete] member usage in generated code.
#pragma warning disable CS0618
namespace JsonSerializerOptionsExample
    internal partial class OptionsExampleContext:
global::System.Text.Json.Serialization.Metadata.IJsonTypeInfoResolver
    {
       /// <inheritdoc/>
        public override global::System.Text.Json.Serialization.Metadata.JsonTypeInfo
GetTypeInfo(global::System.Type type)
        {
            if (type == typeof(global::JsonSerializerOptionsExample.WeatherForecast))
                return this.WeatherForecast;
            }
            if (type == typeof(global::System.DateTime))
                return this.DateTime;
            }
            if (type == typeof(global::System.Int32))
            {
                return this.Int32;
            }
            if (type == typeof(global::System.String))
                return this. String;
            }
```

```
// <auto-generated/>
#nullable enable annotations
#nullable disable warnings
// Suppress warnings about [Obsolete] member usage in generated code.
#pragma warning disable CS0618
namespace JsonSerializerOptionsExample
    internal partial class OptionsExampleContext
        private global::System.Text.Json.Serialization.Metadata.JsonTypeInfo<global::</pre>
        /// <summary>
        /// Defines the source generated JSON serialization contract metadata for a g
        /// </summary>
        public global::System.Text.Json.Serialization.Metadata.JsonTypeInfo<global::S</pre>
            get => _Int32 ??= Create_Int32(Options, makeReadOnly: true);
        }
        private global::System.Text.Json.Serialization.Metadata.JsonTypeInfo<global::</pre>
Create_Int32(global::System.Text.Json.JsonSerializerOptions options, bool makeReadOnl
            global::System.Text.Json.Serialization.Metadata.JsonTypeInfo<global::Syst</pre>
            global::System.Text.Json.Serialization.JsonConverter? customConverter;
            if (options.Converters.Count > 0 && (customConverter = GetRuntimeProvided
typeof(global::System.Int32))) != null)
                jsonTypeInfo =
global::System.Text.Json.Serialization.Metadata.JsonMetadataServices.CreateValueInfo
customConverter);
            }
            else
                jsonTypeInfo =
```

```
// <auto-generated/>
#nullable enable annotations
#nullable disable warnings
// Suppress warnings about [Obsolete] member usage in generated code.
#pragma warning disable CS0618
namespace JsonSerializerOptionsExample
    internal partial class OptionsExampleContext
        private static readonly
global::System.Text.Json.JsonEncodedText PropName_Date =
global::System.Text.Json.JsonEncodedText.Encode("Date");
        private static readonly
global::System.Text.Json.JsonEncodedText PropName_TemperatureCelsius =
global::System.Text.Json.JsonEncodedText.Encode("TemperatureCelsius");
        private static readonly
global::System.Text.Json.JsonEncodedText PropName_Summary =
global::System.Text.Json.JsonEncodedText.Encode("Summary");
}
// <auto-generated/>
#nullable enable annotations
#nullable disable warnings
// Suppress warnings about [Obsolete] member usage in generated code.
#pragma warning disable CS0618
namespace JsonSerializerOptionsExample
```

```
// <auto-generated/>
#nullable enable annotations
#nullable disable warnings
// Suppress warnings about [Obsolete] member usage in generated code.
#pragma warning disable CS0618
namespace JsonSerializerOptionsExample
    internal partial class OptionsExampleContext
        private global::System.Text.Json.Serialization.Metadata.JsonTypeInfo<global::</pre>
        /// <summary>
        /// Defines the source generated JSON serialization contract metadata for a g
        /// </summary>
        public global::System.Text.Json.Serialization.Metadata.JsonTypeInfo<global::J</pre>
            get => _WeatherForecast ??= Create_WeatherForecast(Options, makeReadOnly:
        }
        private global::System.Text.Json.Serialization.Metadata.JsonTypeInfo<global::</pre>
Create_WeatherForecast(global::System.Text.Json.JsonSerializerOptions options, bool m
        {
            global::System.Text.Json.Serialization.Metadata.JsonTypeInfo<global::Json</pre>
            global::System.Text.Json.Serialization.JsonConverter? customConverter;
            if (options.Converters.Count > 0 && (customConverter = GetRuntimeProvided
typeof(global::JsonSerializerOptionsExample.WeatherForecast))) != null)
                jsonTypeInfo =
global::System.Text.Json.Serialization.Metadata.JsonMetadataServices.CreateValueInfo
customConverter);
            }
            else
                global::System.Text.Json.Serialization.Metadata.JsonObjectInfoValues
```

```
// <auto-generated/>
#nullable enable annotations
#nullable disable warnings
// Suppress warnings about [Obsolete] member usage in generated code.
#pragma warning disable CS0618
namespace BothModesNoOptions
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Json.SourceGeneratedCodeAttribute("System.Text.Jso
"7.0.8.17405")]
           internal partial class SourceGenerationContext
           {
                       private static global::System.Text.Json.JsonSerializerOptions s_defaultOption
} = new global::System.Text.Json.JsonSerializerOptions()
                                   DefaultIgnoreCondition =
global::System.Text.Json.Serialization.JsonIgnoreCondition.Never,
                                   IgnoreReadOnlyFields = false,
                                   IgnoreReadOnlyProperties = false,
                                   IncludeFields = false,
                                  WriteIndented = true,
                       };
                       private static global::BothModesNoOptions.SourceGenerationContext? s_defaultC
                      /// <summary>
                      /// The default <see
cref="global::System.Text.Json.Serialization.JsonSerializerContext"/> associated with
<see cref="global::System.Text.Json.JsonSerializerOptions"/> instance.
                      /// </summary>
                       public static global::BothModesNoOptions.SourceGenerationContext Default =>
```

```
// <auto-generated/>
#nullable enable
#pragma warning disable CS0162 // Unreachable code
#pragma warning disable CS0164 // Unreferenced Label
#pragma warning disable CS0219 // Variable assigned but never used
namespace JsonSerializerOptionsExample
{
   partial class WeatherForecast
       /// <remarks>
       /// Pattern explanation:<br/>
       /// <code>
       /// ○ Match with 2 alternative expressions, atomically.<br/>
                o Match a sequence of expressions.<br/>
       ///
                    o Match a character in the set [Aa]. <br/>
       ///
                   o Match a character in the set [Bb].<br/>
       ///
                   o Match a character in the set [Cc].<br/>
       ///
                o Match a sequence of expressions.<br/>
       ///
                    o Match a character in the set [Dd].<br/>
       ///
                   o Match a character in the set [Ee].<br/>
       ///
                   o Match a character in the set [Ff].<br/>
       /// </code>
       /// </remarks>
[global::System.CodeDom.Compiler.GeneratedCodeAttribute("System.Text.RegularExpression)
"7.0.8.17405")]
        private static partial global::System.Text.RegularExpressions.Regex
AbcOrDefGeneratedRegex() =>
global::System.Text.RegularExpressions.Generated.AbcOrDefGeneratedRegex_0.Instance;
    }
}
namespace System.Text.RegularExpressions.Generated
   using System;
```

Usefull

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https://ignatandrei.github.io/RSCG_Examples/v2/docs/System.Text.Json