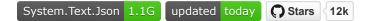




RSCG Examples > RSCG - System.Text.Json

System.Text.Json by **Microsoft**



Details

Info



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

```
// <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