I18N.DotNet main@d8b128

Generated by Doxygen 1.9.5

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I18N.DotNet

Documentation in PDF format is available here.

1.1 About

I18N.DotNet is a .NET library written in C# to enable simple internationalization (I18N) / localization (L10N) (i.e. translation to different languages) of .NET applications and libraries.

The companion utility I18N.DotNet Tool is provided to ease management of translation files.

1.2 Installation

The easiest way to install I18N.DotNet is using the NuGet package: https://www.nuget.←org/packages/I18N.DotNet/

1.3 Getting Started

To use the I18N.DotNet library, three steps must be followed:

- Write/modify the source code to internationalize strings that must be translated (see Writing/Adapting Source Code (I18N)).
- 2. Write translations for internationalized strings (see Writing Translations (L10N)).
- 3. Embed the translations file in the executable (see Embedding the Translations File).

1.3.1 Writing/Adapting Source Code (I18N)

When writing internationalized source code, the strings to be translated must be wrapped with a call to I18N.DotNet.GlobalLocalizer.Localize().

The easier and most convenient approach for writing internationalized software is to choose a language that will be used as the base language throughout the software development (e.g., English), and then write the software just as any non-internationalized source code, except that strings to be translated must be wrapped with calls to Localize(). This way the base language will act as the default language when translations are not available for the current target language.

Adapting existing non-internationalized source code is as easy as wrapping the existing strings to be translated with calls to localize().

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```
Example (C#) using static I18N.DotNet.GlobalLocalizer;
using System;
using System.IO;
public class Program
{
    static void Main( string[] args )
    {
        int i = 0x555;
        Console.WriteLine( Localize( "Plain string to be translated" ) );
        Console.WriteLine( Localize( $"Interpolated string to be translated with value {i:X4}" ) );
    }
}
```

1.3.2 Writing Translations (L10N)

String translations must be stored in an XML file (the translations file) with root element I18N.

For each string than has been internationalized an Entry element under the root must be defined, with:

- A single Key child element which value is the internationalized string defined in the code (replacing for interpolated strings the interpolated expressions with their positional index).
- Several Value child elements with their attribute lang set to the target language of the translation and which value is the translated string.

It is not necessary to add translations (i.e., Value elements) for the development base language, since the value of the Key element will be used as the default translation when a translation for a specific language is not found.

NOTE: The companion utility I18N.DotNet Tool can be used to ease the creation of the translations file by scanning source files and automatically generating entries for discovered internationalized strings.

1.3.3 Embedding the Translations File

A very convenient way of distributing the translations for an application is to embedded the translations file in the executable assembly as an embedded resource identified by *Resources.118N.xml*.

Using Visual Studio, the easiest way to achieve this is to deploy the translations file as a file named _"I18N.xml"_ in a directory named _"Resources"_ inside the VS project directory, and then configure the file in the VS project as an embedded resource (i.e., set its Build Action to "Embedded resource" in the IDE, or add <EmbeddedResource Include="Resources\I18N.xml" /> to an ItemGroup in the project file).

NOTE: The companion utility I18N.DotNet Tool can be used to generate translations files optimized for deployment from the separate translations files used during development and during the translation process.

1.4 Advanced Usage (Internationalizing Applications)

1.4.1 Global Localizer

The static class `GlobalLocalizer` has the property Localizer which contains the global localizer. This instance is shared and can be conveniently used by all software components. In fact all the methods exposed by the $Global \leftarrow Localizer$ class are just convenience wrappers that call the global localizer.

The property GlobalLocalizer.Localizer is an instance of `AutoLoadLocalizer` that on first usage (if translations have not been previously loaded) tries to load the translations from an embedded resource identified by _"Resources.I18N.xml"_ inside the entry (application) assembly using the current UI language as the target language.

The default behavior is just right for most use cases, but if the translations file is stored in an embedded resource with a different identifier, or in a separate file (e.g., installed alongside the application executable), one of the ${\tt LoadXML}$ methods can be invoked on the global localizer to load it (see Loading Translations).

```
Non-Default usage Example (C#) void SetupI18N( string language, string directoryPath )
{
   GlobalLocalizer.Localizer.LoadXML( directoryPath + "/I18N.xml", language );
}
```

1.4.2 Local Localizers

Instances of `Localizer` can be created (local localizers), loaded with string translations, and then passed to software components for being used instead of the global localizer.

For most cases using the global localizer (and optionally contexts) is just enough, but local localizers can be useful for example to implement report generation in different languages than the application UI language (see Loading Translations and Specifying the Translation Target Language).

```
Example (C#) Report GenerateReport( string language )
{
  var reportLocalizer = new Localizer();
  reportLocalizer.LoadXML( Assembly.GetExecutingAssembly(), "Reports.I18N.xml", language )
  return GenerateReport( reportLocalizer );
}
Report GenerateReport( ILocalizer localizer )
{
  var report = new Report();
  report.AddEntry( localizer.Localize( $"Date: {DateTime.Now:d}" ) );
  ...
  return report;
}
```

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1.4.3 String Format

Calls to String.Format() where the format string has to be internationalized should be replaced by a call to GlobalLocalizer.LocalizeFormat() / ILocalizer.LocalizeFormat() instead of just internationalizing the format string.

Strings formatted using LocalizeFormat() and interpolated strings localized using Localize() are conveniently formatted using the formatting conventions of the localizer's target language/culture.

Strings formatted using String.Format(), when no explicit format provider is used, will use the format conventions of the default culture, which may be different from the localizer's target culture, and can therefore produce unexpected localization results.

```
Example (C#) String.Format( Localize( "Format string to be translated with value {0}" ), myVar );
// should be replaced by
LocalizeFormat( "Format string to be translated with value {0}", myVar );
// which is equivalent to
Localize( $"Format string to be translated with value {myVar}" );
```

1.4.4 Language Identifiers & Variants

Any arbitrary string can be used for identifying languages, although it is recommended to use identifiers formed by a ISO 639-1 alpha-2 language name (2-letter language codes, e.g., _"en"_, _"es"_), additionally followed by an hyphen and a ISO 3166-1 alpha-2 country/region name (e.g., _"en-US"_, _"es-ES"_). Specifically, it is recommended to use one of the language/region names supported by Windows.

Language identifiers are processed as case-insensitive (i.e., "fr-FR" is equivalent to "fr-fr").

When using language identifiers formed by a primary code and a variant code separated by an hyphen (e.g., _"enus"_, _"es-es"_), if a localized conversion for the language variant is not found then a conversion for the primary (base) language is tried too.

For example, when loading the translations on a Localizer created for the _"en-gb"_ language, for each string to be translated a translation for the language _"en-gb"_ will be searched first, and if not found then a translation for the language "en" will be searched next.

It is therefore recommended to:

- · In source code:
 - Use primary-variant code (e.g., _"en-us"_, _"es-es"_) as target language identifiers (e.g., as string arguments to the LoadXML methods) or when obtaining target cultures (e.g., to use as CultureInfo arguments to the LoadXML methods).
- · In translation files:
 - Use primary code (e.g., _"en"_, _"fr"_) as translation language identifiers (i.e, as the lang attribute values of XML I18N.Entry.Value entries) for generic (non variant-specific) translations.
 - Use primary code-variant (e.g., _"en-gb"_, _"es-ar"_) as translation language identifiers (i.e, as the lang attribute values of XML I18N. Entry. Value entries) for variant-specific translations.

1.4.5 Contexts

Sometimes the same source language string has different translations in different contexts (e.g., English _"OK" ← _ should be translated in Spanish to _"Aceptar"_ for a button label but to _"Correcto"_ for a successful outcome indication).

Since the source language key is the same in both cases, context partitioning must be used, which affects the source code side and the translations file side.

1.4.5.1 Context Partitioning in Source Code (I18N)

In source code, the context of the key can be explicitly indicated when the string is being internationalized by calling GlobalLocalizer.Context() / ILocalizer.Context() and passing it the context identifier, and then calling the localization methods on the returned context (which is an `ILocalizer`).

Contexts can be nested. A chain of successively nested contexts can be identified by joining their identifiers using the dot character ('.') as a composite context identifier.

Translations in a context are searched hierarchically: if a translation is not found for the target language in a context (neither for the language variant nor the primary language), then a translation is searched again on its parent context (if it exists). Finally, if no translation is found in the context hierarchy, then the base language translation is used (i.e., the value of the argument passed to the Localize method).

```
Example (C#) Button.Label = Context( "GUI.Button" ).Localize( "OK" );
// ...
TextBox.Text = Context( "GUI" ).Context( "Status" ).Localize( "OK" );
```

1.4.5.2 Context Partitioning in the Translation File (L10N)

Context partitioning is performed in the translations XML file using Context elements as children of the root element or nested within other Context elements. These elements must have an id attribute to indicate the context identifier (which can be a composite context identifier), and are containers for the Entry elements that define the translations for that context.

```
Example <?xml version="1.0" encoding="utf-8"?>
<I18N>
  <Entry>
    <Kev>OK</Kev>
    <Value lang="fr">O.K.</Value>
  </Entry>
  <Context id="GUI">
    <Context id="Button">
      <Entry>
        <Kev>OK</Kev>
         <Value lang="es">Aceptar</Value>
      </Entry>
    <Context id="Status">
      <Entry>
        <Key>OK</Key>
        <Value lang="es">Correcto</Value>
      </Entry>
    </Context>
  </Context>
</I18N>
```

1.4.6 Loading Translations

The translations can be (re)loaded into a localizer implementing `ILoadableLocalizer` by different ways:

1.4.6.1 Automatically

The global localizer and `AutoLoadLocalizer` instances load their translations automatically from an embedded resource when any of their localization methods (those defined in `ILocalizer`) is called (only if translations have not been previously loaded explicitly).

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1.4.6.2 From an Embedded Resource

A very convenient way of using translation files is to embed them into an executable assembly (application or library), then load them into a localizer implementing `lLoadableLocalizer` using a LoadXML method passing as arguments the assembly to load the embedded resource from and its identifier (and optionally the target language for translations).

```
Example (C#) void SetupI18N()
{
   GlobalLocalizer.Localizer.LoadXML( Assembly.GetExecutingAssembly(), "I18N.Translations.xml" );
}
```

1.4.6.3 From a Standalone File

If the translations file is stored as a separate file (e.g., installed alongside the application executable), a LoadXML method can be invoked on a localizer implementing `ILoadableLocalizer` passing the path to the file as an argument (and passing optionally the target language for translations).

```
Example (C#) void SetupI18N()
{
  var programPath = Path.GetDirectoryName( Assembly.GetExecutingAssembly().Location );
  GlobalLocalizer.Localizer.LoadXML( programPath + "/I18N.xml" );
}
```

1.4.6.4 From a Stream

When the translations file is neither stored as a file nor as an embedded resource (e.g., downloading the translations from a remote server to local memory, obtaining the translations from a database), a LoadXML method can be invoked on an `ILoadableLocalizer` instance passing as an argument a System.IO.Stream object that must provide the file contents (and passing optionally the target language for translations).

1.4.6.5 From an XML Document

Additionally, translations can be loaded from an XML document by invoking a LoadXML method on an `lLoadable Localizer` instance passing as an argument a System.Xml.Linq.XDocument object loaded with the translations (and passing optionally the target language for translations).

1.4.7 Specifying the Translation Target Language

The target language (and associated culture for formatting operations) used by localizers (e.g., the global localizer or a local localizer) is selected only when translations are loaded on the localizer.

When translations are loaded (automatically or by means of explicit calls to LoadXML methods), if an explicit target language (or culture) is not indicated, then the current UI language (obtained from System. Globalization.CultureInfo.CurrentUICulture) is used by default as the target language (and culture).

Selecting a different language (or culture) than the default can be achieved by different ways:

1.4.7.1 Changing the UI Culture During Startup

An easy way of changing the target language is, during application startup, before any localization method is called, to set <code>System.Globalization.CultureInfo.CurrentUICulture</code> to the culture corresponding to the desired target language.

Automatically-loading localizers do not select their default language when they are created, but they instead delay this selection until they load their translations, which will not happen automatically until a localization method is called. Therefore the default UI culture can be changed after these localizers have been created, and the new culture will still be used properly when localization methods are called for the first time

This approach to make the global localizer use a specific language (e.g., use a language configured by the user) is very simple, and it has the advantage that resources localized by other means may probably also use the same target language and culture.

```
Example (C#) using System.Globalization;
public class Program
{
   static void Main( string[] args )
   {
      if( args.Length >= 1 )
      {
        CultureInfo.CurrentUICulture = CultureInfo.GetCultureInfo( args[0] );
      }
      ...
   }
}
```

NOTE: It may also be useful to set System.Globalization.CultureInfo Current← Culture, System.Globalization.CultureInfo DefaultThreadCurrent← UICulture, and/or System.Globalization.CultureInfo DefaultThread← CurrentCulture.

1.4.7.2 Changing the UI Culture Dynamically

When the application is already running, changing the UI culture will have no immediate effect on the localizers which translations have already been loaded.

Automatically-loading localizers (i.e., instances of `AutoLoadLocalizer`, like the global localizer) can be manually forced to reload its translations to enforce dynamic changes of the UI culture to take effect.

```
Example (C#) void SetupI18N( string language )
{
   CultureInfo.CurrentUICulture = CultureInfo.GetCultureInfo( language );
   GlobalLocalizer.Localizer.Load( null );
}
```

1.4.7.3 (Re)Loading Translations of Automatically-Loading Localizers

The `AutoLoadLocalizer` class provides Load methods that accept the target language as a language identifier or culture (see TargetCulture) parameter.

The AutoLoadLocalizer.Load methods can be called during application startup or during runtime to (re)load the translations from the embedded resource for a specific language.

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```
Example (C#) void SetupI18N( CultureInfo culture )
{
    GlobalLocalizer.Localizer.Load( culture );
}
```

1.4.7.4 (Re)Loading Translations of Loadable Localizers

The `ILoadableLocalizer` interface defines LoadXML methods that accept the target language as an optional language identifier or culture (see TargetCulture) parameter.

The <code>ILoadableLocalizer.LoadXML</code> methods can be called during application startup or during runtime to (re)load the translations for a specific language.

```
Example (C#) void SetupI18N( string language )
{
  var programPath = Path.GetDirectoryName( Assembly.GetExecutingAssembly().Location );
  GlobalLocalizer.Localizer.LoadXML( programPath + "/I18N.xml", language );
}
```

1.4.7.5 Target Culture

When selecting the target language for translations, it can be specified either with a language identifier (using a string) or with a culture (using a CultureInfo).

When specifying the target language with a language identifier, the target culture for the localizer is automatically set to the culture associated in the system with the language identifier (obtained using System. Globalization.CultureInfo.GetCultureInfo). If the system does not support a culture for the target language, then the invariant culture will be used.

The localizer's target culture is used during formatting operations.

1.5 Advanced Usage (Internationalizing Libraries)

1.5.1 Library Localizers

The global localizer is convenient for usage in applications (i.e., which are implemented in the entry assembly), but libraries should not use the global localizer because they would depend on the application to load the translations for its internationalized strings, or risk the application discarding the translations after the library has merged its own translations automatically during library initialization.

For libraries the easiest solution is to define their own "global" localizer as a static property inside a static class, similar to the GlobalLocalizer class but only intended for the scope of the library.

This library localizer can be initialized using an instance of `AutoLoadLocalizer`, which is a special localizer that automatically loads the translations file from an embedded resource.

The static class can be declared with internal scope, or better with public scope to allow applications to access the library localizer (e.g., to add more translations, change them, reload them, etc.).

Finally, the translations file for the library must be embedded in the library assembly as an embedded resource identified by *Resources.I18N.xml* (just like with an application), which the `AutoLoadLocalizer` instance will try to load by default.

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Library Localizer Implementation Example (C#) using I18N.DotNet;

```
using System;
namespace ExampleLibrary
{
  public static class LibraryLocalizer
  {
    public static ILocalizer Localizer { get; } = new AutoLoadLocalizer();
    internal static string Localize( PlainString text ) => Localizer.Localize( text );
    internal static string Localize( FormattableString text ) => Localizer.Localize( text );
}
}
Library Localizer Usage Example (C#) using static ExampleLibrary.LibraryLocalizer;
using System;
namespace ExampleLibrary
{
    public class ExampleClass
    {
        public void SomeMethod()
        {
             Console.WriteLine( Localize( "Plain string to be translated" ) );
            Console.WriteLine( Localize( $"Interpolated string to be translated with value {i:X4}" ) );
    }
}
```

1.6 API Documentation

1.6.0.1 ILocalizer Interface

The ILocalizer interface represents classes which provide localization functionality to software components (i.e. perform string translations) for a single target language:

- Localize methods to translate strings, interpolated strings and collections of strings.
- LocalizeFormat method to format and translate strings.
- Context methods to access contexts and subcontexts (see Contexts).

1.6.0.2 ILoadableLocalizer Interface

The <code>ILoadableLocalizer</code> interface is an extension of 'lLocalizer' that represents localizer classes which provide functionality to load translations for a single target language from different sources:

- LoadXML methods to (re)load/merge translations from a file in the filesystem.
- LoadXML methods to (re)load/merge translations from a Stream.
- LoadXML methods to (re)load/merge translations from an XML document (XDocument).
- LoadXML methods to (re)load/merge translations from an embedded resource in an assembly.

1.6.0.3 Localizer Class

The Localizer class is a simple implementation of `ILoadableLocalizer` which is capable of loading string translations for a single target language and then providing localization functionality.

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1.6.0.4 AutoLoadLocalizer Class

The AutoLoadLocalizer class is an implementation of `ILoadableLocalizer` that on first call of any of its localization methods (i.e., those specified by `ILocalizer`), loads automatically the translations from an embedded resource in an assembly using the current UI language as the target language (if translations have not been previously loaded).

The default parameters for the AutoLoadLocalizer constructor make the created instance load the translations file from an embedded resource identified by *Resources.118N.xml* in the calling assembly (i.e., in the assembly that creates the instance).

A different resource identifier or assembly can be passed as parameters to the AutoLoadLocalizer constructor if necessary.

Additionally, this class provides:

· Load method to (re)load translations from the configured embedded resource for a given language.

1.6.0.5 GlobalLocalizer Class

The GlobalLocalizer static class provides access to the global localizer:

- Localizer static property that provides the global localizer as a localizer instance.
- Localize static methods to translate strings, interpolated strings and collections of strings.
- LocalizeFormat static method to format and translate strings.
- Context static methods to access contexts and subcontexts (see Contexts).

1.6.1 Full API Documentation

You can browse the full API documentation for:

- The last release (stable)
- Main branch (unstable)

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Here are the packages with brief descriptions (if available):

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3.1 Class Hierarchy

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Class Index

4.1 Class List

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Simple loadable localizer	54
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Namespaces

namespace DotNet

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Classes

· class AutoLoadLocalizer

Implementation of a localizer which configuration is automatically loaded from an embedded resource.

class ContextLocalizer

Localizer that can provide translations and can store nested contexts.

· class GlobalLocalizer

Utility class for convenient access to localization functions.

• interface ILoadableLocalizer

Localizer which translations can be loaded from different sources.

interface ILocalizer

Converter of strings from a base-language value to its corresponding language-specific localization.

class Language

Represents a language for localization purposes.

· class Localizer

Simple loadable localizer.

class PlainString

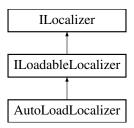
Represents just a string. This class is used to allow interpolated strings to preferably be passed as FormattableString instead of string to methods that overload both types.

Class Documentation

6.1 AutoLoadLocalizer Class Reference

Implementation of a localizer which configuration is automatically loaded from an embedded resource.

Inheritance diagram for AutoLoadLocalizer:



Public Member Functions

- AutoLoadLocalizer (string resourceName=DEFAULT_RESOURCE_NAME, Assembly=null)
 Constructor.
- string Localize (PlainString text)

Localizes a string.

Converts the base-language string text to its corresponding language-specific localized value.

string Localize (FormattableString frmtText)

Localizes an interpolated string.

Converts the composite format string of the base-language formattable string frmtText (e.g. an interpolated string) to its corresponding language-specific localized composite format value, and then generates the result by formatting the localized composite format value along with the frmtText arguments by using the formatting conventions of the localizer culture.

• IEnumerable< string > Localize (IEnumerable< string > texts)

Localizes multiple strings.

Converts the base-language strings in texts to their corresponding language-specific localized values.

• string LocalizeFormat (string format, params object[] args)

Localizes and then formats a string.

Converts the base-language format string format to its corresponding language-specific localized format value, and then generates the result by formatting the localized format value along with the args arguments by using the formatting conventions of the localizer culture.

ILocalizer Context (string contextId)

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Gets the localizer for a context in the current localizer.

Contexts are used to disambiguate the conversion of the same base-language string to different language-specific strings depending on the context where the conversion is performed.

ILocalizer Context (IEnumerable < string > splitContextIds)

Gets the localizer for a context in the current localizer.

Contexts are used to disambiguate the conversion of the same base-language string to different language-specific strings depending on the context where the conversion is performed.

void LoadXML (string filepath, CultureInfo? culture=null)

Loads translations for the given culture from a localization configuration file in XML format.

All the translations loaded previously in the localizer are discarded and replaced with the new ones.

void LoadXML (string filepath, string language)

Loads translations for the given language from a localization configuration file in XML format.

All the translations loaded previously in the localizer are discarded and replaced with the new ones.

void LoadXML (string filepath, bool merge)

Loads translations for the current localizer language from a localization configuration file in XML format.

Parameters

filepath	Path to the localization configuration file.
merge	Replaces the current translations with the loaded ones when $<$ $c>$ false, otherwise merges both (existing translations are overridden with loaded ones).

Exceptions

ParseException	Thrown when the input file cannot be parsed properly.
----------------	---

void LoadXML (Stream stream, CultureInfo? culture=null)

Loads translations for the given culture from a localization configuration file in XML format obtained from a stream. All the translations loaded previously in the localizer are discarded and replaced with the new ones.

void LoadXML (Stream stream, string language)

Loads translations for the given language from a localization configuration file obtained in XML format from a stream. All the translations loaded previously in the localizer are discarded and replaced with the new ones.

void LoadXML (Stream stream, bool merge)

Loads translations for the current localizer language from a localization configuration file in XML format obtained from a stream.

Parameters

stream	Stream with the localization configuration.	
merge	Replaces the current translations with the loaded ones when < c> false, otherwise merges both (existing translations are overridden with loaded ones).	

Exceptions

ParseException	Thrown when the stream contents cannot be parsed properly.
----------------	--

• void LoadXML (XDocument doc, CultureInfo? culture=null)

Loads translations for the given culture from a localization configuration in an XML document.

All the translations loaded previously in the localizer are discarded and replaced with the new ones.

void LoadXML (XDocument doc, string language)

Loads translations for the given language from a localization configuration in an XML document.

All the translations loaded previously in the localizer are discarded and replaced with the new ones.

void LoadXML (XDocument doc, bool merge)

Loads translations for the current localizer language from a localization configuration in an XML document.

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Parameters

doc	XML document with the localization configuration.
merge Replaces the current translations with the loaded ones when < c > false, otherwise merges both (existing translations are overridden with loaded ones).	

Exceptions

ParseException	Thrown when the stream contents cannot be parsed properly.
----------------	--

· void LoadXML (Assembly assembly, string resourceName, CultureInfo? culture=null)

Loads translations for the given culture from a localization configuration file in XML format obtained from an embedded resource in the given assembly.

All the translations loaded previously in the localizer are discarded and replaced with the new ones.

• void LoadXML (Assembly assembly, string resourceName, string language)

Loads translations for the given language from a localization configuration file in XML format obtained from an embedded resource in the given assembly.

All the translations loaded previously in the localizer are discarded and replaced with the new ones.

void LoadXML (Assembly assembly, string resourceName, bool merge)

Loads translations for the current localizer language from a localization configuration file in XML format obtained from an embedded resource in the given assembly.

Parameters

assembly	Assembly that contains the embedded XML file.	
resourceName	Name of the embedded resource for the XML file.	
merge	Replaces the current translations with the loaded ones when $<$ $c>$ false, otherwise merges both (existing translations are overridden with loaded ones).	

Exceptions

ParseException	Thrown when the stream contents cannot be parsed properly.
InvalidOperationException	Thrown when the embedded resource could not be found in the given assembly.

void Load (CultureInfo? culture)

Loads translations for the given culture from the embedded resource specified when creating the instance.

• void Load (string language)

Loads translations for the given language from the embedded resource specified when creating the instance.

Static Public Attributes

const string DEFAULT_RESOURCE_NAME = "Resources.I18N.xml"

Default identifier for the embedded resource containing the translations.

Properties

• string TargetLanguage [get]

Target language of the localizer.

• CultureInfo TargetCulture [get]

Target culture of the localizer.

6.1.1 Detailed Description

Implementation of a localizer which configuration is automatically loaded from an embedded resource.

6.1.2 Constructor & Destructor Documentation

6.1.2.1 AutoLoadLocalizer()

```
AutoLoadLocalizer (
    string resourceName = DEFAULT_RESOURCE_NAME,
    Assembly? assembly = null )
```

Constructor.

When the localization methods are called for the first time, the translations are automatically loaded from the embedded resource identified by *resourceName* inside the given *assembly* (if translations have not been previously loaded explicitly).

Parameters

resourceName	Name of the embedded resource for the XML file.	
assembly	Assembly that contains the embedded XML file (the calling assembly will be used if null).	

6.1.3 Member Function Documentation

6.1.3.1 Context() [1/2]

Gets the localizer for a context in the current localizer.

Contexts are used to disambiguate the conversion of the same base-language string to different language-specific strings depending on the context where the conversion is performed.

Implements ILocalizer.

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6.1.3.2 Context() [2/2]

Gets the localizer for a context in the current localizer.

Contexts are used to disambiguate the conversion of the same base-language string to different language-specific strings depending on the context where the conversion is performed.

Implements ILocalizer.

6.1.3.3 Load() [1/2]

Loads translations for the given *culture* from the embedded resource specified when creating the instance.

Parameters

culture	Culture for the target language of translations, or null to use the current UI culture (obtained from
	System.Globalization.CultureInfo.CurrentUICulture).

Exceptions

ILoadableLocalizer.ParseException	Thrown when the embedded resource contents cannot be parsed properly.
InvalidOperationException	Thrown when the embedded resource could not be found.

6.1.3.4 Load() [2/2]

Loads translations for the given language from the embedded resource specified when creating the instance.

Parameters

language	Name, code or identifier for the target language of translations.
----------	---

Exceptions

ILoadableLocalizer.ParseException	Thrown when the embedded resource contents cannot be parsed properly.
InvalidOperationException	Thrown when the embedded resource could not be found.

6.1.3.5 LoadXML() [1/12]

Loads translations for the current localizer language from a localization configuration file in XML format obtained from an embedded resource in the given assembly.

Parameters

assembly	Assembly that contains the embedded XML file.
resourceName	Name of the embedded resource for the XML file.
merge	Replaces the current translations with the loaded ones when < c > false, otherwise merges both (existing translations are overridden with loaded ones).

Exceptions

ParseException	Thrown when the stream contents cannot be parsed properly.
InvalidOperationException	Thrown when the embedded resource could not be found in the given assembly.

Implements ILoadableLocalizer.

6.1.3.6 LoadXML() [2/12]

Loads translations for the given *culture* from a localization configuration file in XML format obtained from an embedded resource in the given assembly.

All the translations loaded previously in the localizer are discarded and replaced with the new ones.

Implements ILoadableLocalizer.

6.1.3.7 LoadXML() [3/12]

Loads translations for the given *language* from a localization configuration file in XML format obtained from an embedded resource in the given assembly.

All the translations loaded previously in the localizer are discarded and replaced with the new ones.

Implements ILoadableLocalizer.

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6.1.3.8 LoadXML() [4/12]

Loads translations for the current localizer language from a localization configuration file in XML format obtained from a stream.

Parameters

stream	Stream with the localization configuration.
merge	Replaces the current translations with the loaded ones when < c > false, otherwise merges both (existing translations are overridden with loaded ones).

Exceptions

Implements ILoadableLocalizer.

6.1.3.9 LoadXML() [5/12]

Loads translations for the given *culture* from a localization configuration file in XML format obtained from a stream.

All the translations loaded previously in the localizer are discarded and replaced with the new ones.

Implements ILoadableLocalizer.

6.1.3.10 LoadXML() [6/12]

Loads translations for the given language from a localization configuration file obtained in XML format from a stream.

All the translations loaded previously in the localizer are discarded and replaced with the new ones.

Implements ILoadableLocalizer.

6.1.3.11 LoadXML() [7/12]

```
void LoadXML (
    string filepath,
    bool merge )
```

Loads translations for the current localizer language from a localization configuration file in XML format.

Parameters

filepath	Path to the localization configuration file.	
merge	Replaces the current translations with the loaded ones when < c > false, otherwise merges both (existing	
	translations are overridden with loaded ones).	

Exceptions

ParseException	Thrown when the input file cannot be parsed properly.

Implements ILoadableLocalizer.

6.1.3.12 LoadXML() [8/12]

Loads translations for the given *culture* from a localization configuration file in XML format.

All the translations loaded previously in the localizer are discarded and replaced with the new ones.

Implements ILoadableLocalizer.

6.1.3.13 LoadXML() [9/12]

Loads translations for the given *language* from a localization configuration file in XML format.

All the translations loaded previously in the localizer are discarded and replaced with the new ones.

Implements ILoadableLocalizer.

6.1.3.14 LoadXML() [10/12]

Loads translations for the current localizer language from a localization configuration in an XML document.

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Parameters

doc	XML document with the localization configuration.
merge	Replaces the current translations with the loaded ones when < c > false, otherwise merges both (existing
	translations are overridden with loaded ones).

Exceptions

ſ

Implements ILoadableLocalizer.

6.1.3.15 LoadXML() [11/12]

Loads translations for the given *culture* from a localization configuration in an XML document.

All the translations loaded previously in the localizer are discarded and replaced with the new ones.

Implements ILoadableLocalizer.

6.1.3.16 LoadXML() [12/12]

Loads translations for the given language from a localization configuration in an XML document.

All the translations loaded previously in the localizer are discarded and replaced with the new ones.

Implements ILoadableLocalizer.

6.1.3.17 Localize() [1/3]

Localizes an interpolated string.

Converts the composite format string of the base-language formattable string *frmtText* (e.g. an interpolated string) to its corresponding language-specific localized composite format value, and then generates the result by formatting the localized composite format value along with the *frmtText* arguments by using the formatting conventions of the localizer culture.

Implements ILocalizer.

6.1.3.18 Localize() [2/3]

```
IEnumerable< string > Localize (  \label{eq:ienumerable} {\tt IEnumerable} < {\tt string} > {\tt texts} \ )
```

Localizes multiple strings.

Converts the base-language strings in texts to their corresponding language-specific localized values.

Implements ILocalizer.

6.1.3.19 Localize() [3/3]

Localizes a string.

Converts the base-language string *text* to its corresponding language-specific localized value.

Implements ILocalizer.

6.1.3.20 LocalizeFormat()

Localizes and then formats a string.

Converts the base-language format string *format* to its corresponding language-specific localized format value, and then generates the result by formatting the localized format value along with the *args* arguments by using the formatting conventions of the localizer culture.

Implements ILocalizer.

6.1.4 Member Data Documentation

6.1.4.1 DEFAULT_RESOURCE_NAME

```
const string DEFAULT_RESOURCE_NAME = "Resources.I18N.xml" [static]
```

Default identifier for the embedded resource containing the translations.

6.1.5 Property Documentation

6.1.5.1 TargetCulture

```
CultureInfo TargetCulture [get]
```

Target culture of the localizer.

Implements ILocalizer.

6.1.5.2 TargetLanguage

```
string TargetLanguage [get]
```

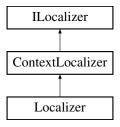
Target language of the localizer.

Implements ILocalizer.

6.2 ContextLocalizer Class Reference

Localizer that can provide translations and can store nested contexts.

Inheritance diagram for ContextLocalizer:



Public Member Functions

• string Localize (PlainString text)

Localizes a string.

Converts the base-language string text to its corresponding language-specific localized value.

• string Localize (FormattableString frmtText)

Localizes an interpolated string.

Converts the composite format string of the base-language formattable string frmtText (e.g. an interpolated string) to its corresponding language-specific localized composite format value, and then generates the result by formatting the localized composite format value along with the frmtText arguments by using the formatting conventions of the localizer culture.

- string LocalizeFormat (string format, params object?[] args)
- IEnumerable< string > Localize (IEnumerable< string > texts)

Localizes multiple strings.

Converts the base-language strings in texts to their corresponding language-specific localized values.

ContextLocalizer Context (string contextId)

Gets the localizer for a context in the current localizer.

Contexts are used to disambiguate the conversion of the same base-language string to different language-specific strings depending on the context where the conversion is performed.

ContextLocalizer Context (IEnumerable < string > splitContextIds)

Gets the localizer for a context in the current localizer.

Contexts are used to disambiguate the conversion of the same base-language string to different language-specific strings depending on the context where the conversion is performed.

string LocalizeFormat (string format, params object[] args)

Localizes and then formats a string.

Protected Member Functions

- ContextLocalizer ()
- void Clear ()
- void Load (XElement element)

Properties

• string TargetLanguage [get]

Target language of the localizer.

• CultureInfo TargetCulture [get]

Target culture of the localizer.

• Language Language [get, set]

6.2.1 Detailed Description

Localizer that can provide translations and can store nested contexts.

6.2.2 Constructor & Destructor Documentation

6.2.2.1 ContextLocalizer()

```
ContextLocalizer ( ) [protected]
```

6.2.3 Member Function Documentation

6.2.3.1 Clear()

```
void Clear ( ) [protected]
```

6.2.3.2 Context() [1/2]

Gets the localizer for a context in the current localizer.

Contexts are used to disambiguate the conversion of the same base-language string to different language-specific strings depending on the context where the conversion is performed.

Implements ILocalizer.

6.2.3.3 Context() [2/2]

Gets the localizer for a context in the current localizer.

Contexts are used to disambiguate the conversion of the same base-language string to different language-specific strings depending on the context where the conversion is performed.

Implements ILocalizer.

6.2.3.4 Load()

6.2.3.5 Localize() [1/3]

Localizes an interpolated string.

Converts the composite format string of the base-language formattable string *frmtText* (e.g. an interpolated string) to its corresponding language-specific localized composite format value, and then generates the result by formatting the localized composite format value along with the *frmtText* arguments by using the formatting conventions of the localizer culture.

Implements ILocalizer.

6.2.3.6 Localize() [2/3]

```
\label{eq:continuous} \begin{split} \text{IEnumerable} < & \text{string} > \text{Localize} \text{ (} \\ & \text{IEnumerable} < & \text{string} > \text{texts} \text{ )} \end{split}
```

Localizes multiple strings.

Converts the base-language strings in texts to their corresponding language-specific localized values.

Implements ILocalizer.

6.2.3.7 Localize() [3/3]

Localizes a string.

Converts the base-language string *text* to its corresponding language-specific localized value.

Implements ILocalizer.

6.2.3.8 LocalizeFormat() [1/2]

6.2.3.9 LocalizeFormat() [2/2]

Localizes and then formats a string.

Converts the base-language format string *format* to its corresponding language-specific localized format value, and then generates the result by formatting the localized format value along with the *args* arguments by using the formatting conventions of the localizer culture.

Parameters

format	Base-language format string.
args	Arguments for the format string.

Returns

Formatted string generated from the language-specific localized format string if found, or generated from *format* otherwise.

Exceptions

FormatException Thrown when format or its localized format value is inva	lid.
--	------

Implemented in AutoLoadLocalizer.

6.2.4 Property Documentation

6.2.4.1 Language

Language Language [get], [set], [protected]

6.2.4.2 TargetCulture

CultureInfo TargetCulture [get]

Target culture of the localizer.

Implements ILocalizer.

6.2.4.3 TargetLanguage

string TargetLanguage [get]

Target language of the localizer.

Implements ILocalizer.

6.3 GlobalLocalizer Class Reference

Utility class for convenient access to localization functions.

Static Public Member Functions

• static string Localize (PlainString text)

Localizes a string using the global localizer.

static string Localize (FormattableString frmtText)

Localizes an interpolated string using the global localizer.

• static IEnumerable < string > Localize (IEnumerable < string > texts)

Localizes multiple strings using the global localizer.

• static string LocalizeFormat (string format, params object[] args)

Localizes and then formats a string using the global localizer.

static ILocalizer Context (string contextId)

Gets a context in the global localizer.

static ILocalizer Context (IEnumerable < string > splitContextIds)

Gets a context in the global localizer.

Properties

• static AutoLoadLocalizer Localizer = new AutoLoadLocalizer() [get]

Global localizer.

6.3.1 Detailed Description

Utility class for convenient access to localization functions.

6.3.2 Member Function Documentation

6.3.2.1 Context() [1/2]

Gets a context in the global localizer.

See also

ILocalizer.Context(IEnumerable<string>)

Parameters

extlds Chain of context identifiers in split form.
--

Returns

Localizer for the given context.

6.3.2.2 Context() [2/2]

```
static ILocalizer Context ( {\tt string} \ contextId \ ) \quad [{\tt static}]
```

Gets a context in the global localizer.

See also

ILocalizer.Context(string)

Parameters

context⇔	Identifier of the context.
ld	

Returns

Localizer for the given context.

6.3.2.3 Localize() [1/3]

Localizes an interpolated string using the global localizer.

See also

ILocalizer.Localize(FormattableString)

frmtText	Base-language formattable string.

Returns

Formatted string generated from the language-specific localized format string if found, or generated from frmtText otherwise.

6.3.2.4 Localize() [2/3]

```
static IEnumerable< string > Localize ( {\tt IEnumerable} < {\tt string} ~>~ texts ~) ~~ [{\tt static}]
```

Localizes multiple strings using the global localizer.

See also

ILocalizer.Localize(IEnumerable<string>)

Parameters

texts Base-langu	uage strings.
------------------	---------------

Returns

Language-specific localized strings if found, or the base-language string otherwise.

6.3.2.5 Localize() [3/3]

Localizes a string using the global localizer.

See also

ILocalizer.Localize(PlainString)

Parameters

```
text Base-language string.
```

Returns

Language-specific localized string if found, or text otherwise.

6.3.2.6 LocalizeFormat()

Localizes and then formats a string using the global localizer.

See also

ILocalizeFormat(string, object[])

Parameters

format	Base-language format string.
args	Arguments for the format string.

Returns

Formatted string generated from the language-specific localized format string if found, or generated from *format* otherwise.

6.3.3 Property Documentation

6.3.3.1 Localizer

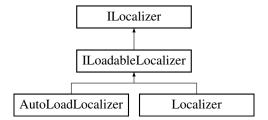
```
AutoLoadLocalizer Localizer = new AutoLoadLocalizer() [static], [get]
```

Global localizer.

6.4 ILoadableLocalizer Interface Reference

Localizer which translations can be loaded from different sources.

Inheritance diagram for ILoadableLocalizer:



Classes

· class ParseException

Exception thrown when a localization file cannot be parsed properly.

Public Member Functions

void LoadXML (string filepath, CultureInfo? culture=null)

Loads translations for the given culture from a localization configuration file in XML format.

void LoadXML (string filepath, string language)

Loads translations for the given language from a localization configuration file in XML format.

void LoadXML (string filepath, bool merge)

Loads translations for the current localizer language from a localization configuration file in XML format.

void LoadXML (Stream stream, CultureInfo? culture=null)

Loads translations for the given culture from a localization configuration file in XML format obtained from a stream.

void LoadXML (Stream stream, string language)

Loads translations for the given language from a localization configuration file obtained in XML format from a stream.

void LoadXML (Stream stream, bool merge)

Loads translations for the current localizer language from a localization configuration file in XML format obtained from a stream.

void LoadXML (XDocument doc, CultureInfo? culture=null)

Loads translations for the given culture from a localization configuration in an XML document.

void LoadXML (XDocument doc, string language)

Loads translations for the given language from a localization configuration in an XML document.

void LoadXML (XDocument doc, bool merge)

Loads translations for the current localizer language from a localization configuration in an XML document.

void LoadXML (Assembly assembly, string resourceName, CultureInfo? culture=null)

Loads translations for the given culture from a localization configuration file in XML format obtained from an embedded resource in the given assembly.

• void LoadXML (Assembly assembly, string resourceName, string language)

Loads translations for the given language from a localization configuration file in XML format obtained from an embedded resource in the given assembly.

· void LoadXML (Assembly assembly, string resourceName, bool merge)

Loads translations for the current localizer language from a localization configuration file in XML format obtained from an embedded resource in the given assembly.

string Localize (PlainString text)

Localizes a string.

string Localize (FormattableString frmtText)

Localizes an interpolated string.

IEnumerable < string > Localize (IEnumerable < string > texts)

Localizes multiple strings.

string LocalizeFormat (string format, params object[] args)

Localizes and then formats a string.

ILocalizer Context (string contextId)

Gets the localizer for a context in the current localizer.

ILocalizer Context (IEnumerable < string > splitContextIds)

Gets the localizer for a context in the current localizer.

Properties

```
    string TargetLanguage [get]
        Target language of the localizer.

    CultureInfo TargetCulture [get]
        Target culture of the localizer.
```

6.4.1 Detailed Description

Localizer which translations can be loaded from different sources.

6.4.2 Member Function Documentation

6.4.2.1 Context() [1/2]

```
ILocalizer Context ( {\tt IEnumerable<\ string\ } > splitContextIds\ ) \quad [inherited]
```

Gets the localizer for a context in the current localizer.

Contexts are used to disambiguate the conversion of the same base-language string to different language-specific strings depending on the context where the conversion is performed.

Parameters

	splitContextIds	Chain of context identifiers in split form.	
--	-----------------	---	--

Returns

Localizer for the given context.

Implemented in AutoLoadLocalizer, and ContextLocalizer.

6.4.2.2 Context() [2/2]

Gets the localizer for a context in the current localizer.

Contexts are used to disambiguate the conversion of the same base-language string to different language-specific strings depending on the context where the conversion is performed.

Contexts can be nested. The context identifier can identify a chain of nested contexts by separating their identifiers with the '.' character (left = outermost / right = innermost).

Parameters

context←	Identifier of the context.
ld	

Returns

Localizer for the given context.

Implemented in AutoLoadLocalizer, and ContextLocalizer.

6.4.2.3 LoadXML() [1/12]

Loads translations for the current localizer language from a localization configuration file in XML format obtained from an embedded resource in the given assembly.

Parameters

assembly	Assembly that contains the embedded XML file.	
resourceName	Name of the embedded resource for the XML file.	
merge	Replaces the current translations with the loaded ones when < c > false, otherwise merges	
	both (existing translations are overridden with loaded ones).	

Exceptions

ParseException	Thrown when the stream contents cannot be parsed properly.
InvalidOperationException	Thrown when the embedded resource could not be found in the given assembly.

Implemented in AutoLoadLocalizer, and Localizer.

6.4.2.4 LoadXML() [2/12]

```
void LoadXML (
          Assembly assembly,
          string resourceName,
          CultureInfo? culture = null )
```

Loads translations for the given *culture* from a localization configuration file in XML format obtained from an embedded resource in the given assembly.

All the translations loaded previously in the localizer are discarded and replaced with the new ones.

Parameters

assembly	Assembly that contains the embedded XML file.	
resourceName	Name of the embedded resource for the XML file.	
culture	Culture for the target language of translations, or null to use the current UI culture (obtained from CultureInfo.CurrentUICulture).	

Exceptions

ParseException	Thrown when the embedded resource contents cannot be parsed properly.
InvalidOperationException	Thrown when the embedded resource could not be found in the given assembly.

Implemented in AutoLoadLocalizer, and Localizer.

6.4.2.5 LoadXML() [3/12]

Loads translations for the given *language* from a localization configuration file in XML format obtained from an embedded resource in the given assembly.

All the translations loaded previously in the localizer are discarded and replaced with the new ones.

If the system does not support a culture for language, then CultureInfo.InvariantCulture will be used as the culture for formatting operations.

Parameters

assembly	Assembly that contains the embedded XML file.
resourceName	Name of the embedded resource for the XML file.
language	Name, code or identifier for the target language of translations.

Exceptions

ParseException	Thrown when the embedded resource contents cannot be parsed properly.
InvalidOperationException	Thrown when the embedded resource could not be found in the given assembly.

Implemented in AutoLoadLocalizer, and Localizer.

6.4.2.6 LoadXML() [4/12]

```
void LoadXML (
```

```
Stream stream,
bool merge )
```

Loads translations for the current localizer language from a localization configuration file in XML format obtained from a stream.

Parameters

stream	Stream with the localization configuration.
merge	Replaces the current translations with the loaded ones when < c > false, otherwise merges both (existing translations are overridden with loaded ones).

Exceptions

ParseException	Thrown when the stream contents cannot be parsed properly.
----------------	--

Implemented in AutoLoadLocalizer, and Localizer.

6.4.2.7 LoadXML() [5/12]

Loads translations for the given *culture* from a localization configuration file in XML format obtained from a stream.

All the translations loaded previously in the localizer are discarded and replaced with the new ones.

Parameters

stream	Stream with the localization configuration.
culture	Culture for the target language of translations, or null to use the current UI culture (obtained from CultureInfo.CurrentUICulture).

Exceptions

ParseException	Thrown when the stream contents cannot be parsed properly.
----------------	--

Implemented in AutoLoadLocalizer, and Localizer.

6.4.2.8 LoadXML() [6/12]

Loads translations for the given *language* from a localization configuration file obtained in XML format from a stream.

All the translations loaded previously in the localizer are discarded and replaced with the new ones.

If the system does not support a culture for *language*, then CultureInfo.InvariantCulture will be used as the culture for formatting operations.

Parameters

stream	Stream with the localization configuration.
language	Name, code or identifier for the target language of translations.

Exceptions

ParseException	Thrown when the stream contents cannot be parsed properly.
----------------	--

Implemented in AutoLoadLocalizer, and Localizer.

6.4.2.9 LoadXML() [7/12]

```
void LoadXML (
    string filepath,
    bool merge )
```

Loads translations for the current localizer language from a localization configuration file in XML format.

Parameters

filepath	Path to the localization configuration file.
merge	Replaces the current translations with the loaded ones when < c > false, otherwise merges both (existing translations are overridden with loaded ones).
	translations are overridden with loaded ones).

Exceptions

ParseException	Thrown when the input file cannot be parsed properly.

Implemented in AutoLoadLocalizer, and Localizer.

6.4.2.10 LoadXML() [8/12]

Loads translations for the given *culture* from a localization configuration file in XML format.

All the translations loaded previously in the localizer are discarded and replaced with the new ones.

Parameters

filepath	Path to the localization configuration file.	
culture	Culture for the target language of translations, or null to use the current UI culture (obtained from	
	CultureInfo.CurrentUICulture).	

Exceptions

input file cannot be parsed prope	ParseException
-----------------------------------	----------------

Implemented in AutoLoadLocalizer, and Localizer.

6.4.2.11 LoadXML() [9/12]

```
void LoadXML ( {\tt string} \ \textit{filepath,} \\ {\tt string} \ \textit{language} \ )
```

Loads translations for the given language from a localization configuration file in XML format.

All the translations loaded previously in the localizer are discarded and replaced with the new ones.

If the system does not support a culture for *language*, then CultureInfo.InvariantCulture will be used as the culture for formatting operations.

Parameters

filepath	Path to the localization configuration file.
language	Name, code or identifier for the target language of translations.

Exceptions

ParseException	Thrown when the input file cannot be parsed properly.
Tarscexception	Thrown when the input me cannot be parsed properly.

Implemented in AutoLoadLocalizer, and Localizer.

6.4.2.12 LoadXML() [10/12]

Loads translations for the current localizer language from a localization configuration in an XML document.

Parameters

doc	XML document with the localization configuration.
merge	Replaces the current translations with the loaded ones when < c > false, otherwise merges both (existing translations are overridden with loaded ones).

Exceptions

Parsel	Exception	Thrown when the stream contents cannot be parsed properly.
--------	-----------	--

Implemented in AutoLoadLocalizer, and Localizer.

6.4.2.13 LoadXML() [11/12]

Loads translations for the given *culture* from a localization configuration in an XML document.

All the translations loaded previously in the localizer are discarded and replaced with the new ones.

Parameters

doc	XML document with the localization configuration.
culture	Culture for the target language of translations, or null to use the current UI culture (obtained from CultureInfo.CurrentUICulture).

Exceptions

tion Thrown when the input document cannot be parse	rsed properly.
---	----------------

Implemented in AutoLoadLocalizer, and Localizer.

6.4.2.14 LoadXML() [12/12]

```
void LoadXML ( \label{eq:XDocument} \ doc, \ string \ language \ )
```

Loads translations for the given language from a localization configuration in an XML document.

All the translations loaded previously in the localizer are discarded and replaced with the new ones.

If the system does not support a culture for *language*, then CultureInfo.InvariantCulture will be used as the culture for formatting operations.

Parameters

doc	XML document with the localization configuration.
language	Name, code or identifier for the target language of translations.

Exceptions

ParseException	Thrown when the input document cannot be parsed properly.
----------------	---

Implemented in AutoLoadLocalizer, and Localizer.

6.4.2.15 Localize() [1/3]

Localizes an interpolated string.

Converts the composite format string of the base-language formattable string *frmtText* (e.g. an interpolated string) to its corresponding language-specific localized composite format value, and then generates the result by formatting the localized composite format value along with the *frmtText* arguments by using the formatting conventions of the localizer culture.

Parameters

frmtText	Base-language formattable string.

Returns

Formatted string generated from the language-specific localized format string if found, or generated from *frmtText* otherwise.

Exceptions

|--|

Implemented in AutoLoadLocalizer, and ContextLocalizer.

6.4.2.16 Localize() [2/3]

```
\label{eq:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:
```

Localizes multiple strings.

Converts the base-language strings in texts to their corresponding language-specific localized values.

Parameters

texts	Base-language strings.
texts	Base-language strings.

Returns

Language-specific localized strings if found, or the base-language string otherwise.

Implemented in AutoLoadLocalizer, and ContextLocalizer.

6.4.2.17 Localize() [3/3]

Localizes a string.

Converts the base-language string *text* to its corresponding language-specific localized value.

Parameters

text	Base-language string.
------	-----------------------

Returns

Language-specific localized string if found, or text otherwise.

Implemented in AutoLoadLocalizer, and ContextLocalizer.

6.4.2.18 LocalizeFormat()

Localizes and then formats a string.

Converts the base-language format string *format* to its corresponding language-specific localized format value, and then generates the result by formatting the localized format value along with the *args* arguments by using the formatting conventions of the localizer culture.

format	Base-language format string.
args	Arguments for the format string.

Returns

Formatted string generated from the language-specific localized format string if found, or generated from format otherwise

Exceptions

FormatException	Thrown when <i>format</i> or its localized format value is invalid.
-----------------	---

Implemented in AutoLoadLocalizer.

6.4.3 Property Documentation

6.4.3.1 TargetCulture

```
CultureInfo TargetCulture [get], [inherited]
```

Target culture of the localizer.

Implemented in AutoLoadLocalizer, and ContextLocalizer.

6.4.3.2 TargetLanguage

```
string TargetLanguage [get], [inherited]
```

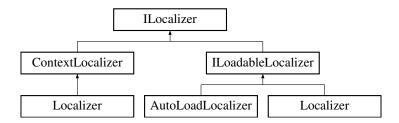
Target language of the localizer.

 $Implemented \ in \ AutoLoadLocalizer, \ and \ ContextLocalizer.$

6.5 ILocalizer Interface Reference

Converter of strings from a base-language value to its corresponding language-specific localization.

Inheritance diagram for ILocalizer:



Public Member Functions

• string Localize (PlainString text)

Localizes a string.

• string Localize (FormattableString frmtText)

Localizes an interpolated string.

• string LocalizeFormat (string format, params object[] args)

Localizes and then formats a string.

• IEnumerable < string > Localize (IEnumerable < string > texts)

Localizes multiple strings.

• ILocalizer Context (string contextId)

Gets the localizer for a context in the current localizer.

ILocalizer Context (IEnumerable < string > splitContextIds)

Gets the localizer for a context in the current localizer.

Properties

```
• string TargetLanguage [get]
```

Target language of the localizer.

• CultureInfo TargetCulture [get]

Target culture of the localizer.

6.5.1 Detailed Description

Converter of strings from a base-language value to its corresponding language-specific localization.

6.5.2 Member Function Documentation

6.5.2.1 Context() [1/2]

Gets the localizer for a context in the current localizer.

Contexts are used to disambiguate the conversion of the same base-language string to different language-specific strings depending on the context where the conversion is performed.

splitContextIds	Chain of context identifiers in split form.

Returns

Localizer for the given context.

Implemented in AutoLoadLocalizer, and ContextLocalizer.

6.5.2.2 Context() [2/2]

Gets the localizer for a context in the current localizer.

Contexts are used to disambiguate the conversion of the same base-language string to different language-specific strings depending on the context where the conversion is performed.

Contexts can be nested. The context identifier can identify a chain of nested contexts by separating their identifiers with the '.' character (left = outermost / right = innermost).

Parameters

context←	Identifier of the context.
ld	

Returns

Localizer for the given context.

Implemented in AutoLoadLocalizer, and ContextLocalizer.

6.5.2.3 Localize() [1/3]

Localizes an interpolated string.

Converts the composite format string of the base-language formattable string *frmtText* (e.g. an interpolated string) to its corresponding language-specific localized composite format value, and then generates the result by formatting the localized composite format value along with the *frmtText* arguments by using the formatting conventions of the localizer culture.

frmtText	Base-language formattable string.

Returns

Formatted string generated from the language-specific localized format string if found, or generated from frmtText otherwise.

Exceptions

FormatException Thrown when the localized format value of frmtText is invalid.
--

Implemented in AutoLoadLocalizer, and ContextLocalizer.

6.5.2.4 Localize() [2/3]

```
IEnumerable< string > Localize (  \label{eq:ienumerable} \mbox{IEnumerable} < \mbox{string} > texts \mbox{ )}
```

Localizes multiple strings.

Converts the base-language strings in texts to their corresponding language-specific localized values.

Parameters

```
texts Base-language strings.
```

Returns

Language-specific localized strings if found, or the base-language string otherwise.

Implemented in AutoLoadLocalizer, and ContextLocalizer.

6.5.2.5 Localize() [3/3]

Localizes a string.

Converts the base-language string *text* to its corresponding language-specific localized value.

Returns

Language-specific localized string if found, or text otherwise.

Implemented in AutoLoadLocalizer, and ContextLocalizer.

6.5.2.6 LocalizeFormat()

Localizes and then formats a string.

Converts the base-language format string *format* to its corresponding language-specific localized format value, and then generates the result by formatting the localized format value along with the *args* arguments by using the formatting conventions of the localizer culture.

Parameters

format	Base-language format string.
args	Arguments for the format string.

Returns

Formatted string generated from the language-specific localized format string if found, or generated from *format* otherwise.

Exceptions

FormatException	Thrown when <i>format</i> or its localized format value is invalid.
1 office Xooption	Thrown whom to make of its localized format value is invalid.

Implemented in AutoLoadLocalizer.

6.5.3 Property Documentation

6.5.3.1 TargetCulture

```
CultureInfo TargetCulture [get]
```

Target culture of the localizer.

Implemented in AutoLoadLocalizer, and ContextLocalizer.

6.5.3.2 TargetLanguage

string TargetLanguage [get]

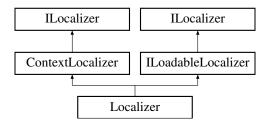
Target language of the localizer.

Implemented in AutoLoadLocalizer, and ContextLocalizer.

6.6 Localizer Class Reference

Simple loadable localizer.

Inheritance diagram for Localizer:



Public Member Functions

· Localizer ()

Default constructor.

• void LoadXML (string filepath, CultureInfo? culture=null)

Loads translations for the given culture from a localization configuration file in XML format.

All the translations loaded previously in the localizer are discarded and replaced with the new ones.

void LoadXML (string filepath, string language)

Loads translations for the given language from a localization configuration file in XML format.

All the translations loaded previously in the localizer are discarded and replaced with the new ones.

void LoadXML (string filepath, bool merge)

Loads translations for the current localizer language from a localization configuration file in XML format.

Parameters

filepath	Path to the localization configuration file.
merge	Replaces the current translations with the loaded ones when < c> false, otherwise merges both
	(existing translations are overridden with loaded ones).

Exceptions

ParseException	Thrown when the input file cannot be parsed properly.
----------------	---

• void LoadXML (Stream stream, CultureInfo? culture=null)

Loads translations for the given culture from a localization configuration file in XML format obtained from a stream. All the translations loaded previously in the localizer are discarded and replaced with the new ones.

• void LoadXML (Stream stream, string language)

Loads translations for the given language from a localization configuration file obtained in XML format from a stream. All the translations loaded previously in the localizer are discarded and replaced with the new ones.

void LoadXML (Stream stream, bool merge)

Loads translations for the current localizer language from a localization configuration file in XML format obtained from a stream.

Parameters

stream	Stream with the localization configuration.
merge	Replaces the current translations with the loaded ones when < c> false, otherwise merges both
	(existing translations are overridden with loaded ones).

Exceptions

ParseException	Thrown when the stream contents cannot be parsed properly.
----------------	--

void LoadXML (XDocument doc, CultureInfo? culture=null)

Loads translations for the given culture from a localization configuration in an XML document.

All the translations loaded previously in the localizer are discarded and replaced with the new ones.

void LoadXML (XDocument doc, string language)

Loads translations for the given language from a localization configuration in an XML document.

All the translations loaded previously in the localizer are discarded and replaced with the new ones.

• void LoadXML (XDocument doc, bool merge)

Loads translations for the current localizer language from a localization configuration in an XML document.

Parameters

doc	XML document with the localization configuration.
merge	Replaces the current translations with the loaded ones when $< c >$ false, otherwise merges both (existing translations are overridden with loaded ones).

Exceptions

cception Thrown when the stream contents cannot be parsed properly	ly.
--	-----

• void LoadXML (Assembly assembly, string resourceName, CultureInfo? culture=null)

Loads translations for the given culture from a localization configuration file in XML format obtained from an embedded resource in the given assembly.

All the translations loaded previously in the localizer are discarded and replaced with the new ones.

void LoadXML (Assembly assembly, string resourceName, string language)

Loads translations for the given language from a localization configuration file in XML format obtained from an embedded resource in the given assembly.

All the translations loaded previously in the localizer are discarded and replaced with the new ones.

void LoadXML (Assembly assembly, string resourceName, bool merge)

Loads translations for the current localizer language from a localization configuration file in XML format obtained from an embedded resource in the given assembly.

assembly	Assembly that contains the embedded XML file.
resourceNa	ame Name of the embedded resource for the XML file.
merge	Replaces the current translations with the loaded ones when < c > false, otherwise merges both
	(existing translations are overridden with loaded ones).

Exceptions

ParseException	Thrown when the stream contents cannot be parsed properly.
InvalidOperationException	Thrown when the embedded resource could not be found in the given assembly.

string Localize (PlainString text)

Localizes a string.

Converts the base-language string text to its corresponding language-specific localized value.

string Localize (FormattableString frmtText)

Localizes an interpolated string.

Converts the composite format string of the base-language formattable string frmtText (e.g. an interpolated string) to its corresponding language-specific localized composite format value, and then generates the result by formatting the localized composite format value along with the frmtText arguments by using the formatting conventions of the localizer culture.

• IEnumerable < string > Localize (IEnumerable < string > texts)

Localizes multiple strings.

Converts the base-language strings in texts to their corresponding language-specific localized values.

- string LocalizeFormat (string format, params object?[] args)
- string LocalizeFormat (string format, params object[] args)

Localizes and then formats a string.

ContextLocalizer Context (string contextId)

Gets the localizer for a context in the current localizer.

Contexts are used to disambiguate the conversion of the same base-language string to different language-specific strings depending on the context where the conversion is performed.

ContextLocalizer Context (IEnumerable < string > splitContextIds)

Gets the localizer for a context in the current localizer.

Contexts are used to disambiguate the conversion of the same base-language string to different language-specific strings depending on the context where the conversion is performed.

Protected Member Functions

- void Clear ()
- · void Load (XElement element)

Properties

• string TargetLanguage [get]

Target language of the localizer.

• CultureInfo TargetCulture [get]

Target culture of the localizer.

• Language Language [get, set]

6.6.1 Detailed Description

Simple loadable localizer.

6.6.2 Constructor & Destructor Documentation

6.6.2.1 Localizer()

```
Localizer ( )
```

Default constructor.

6.6.3 Member Function Documentation

6.6.3.1 Clear()

```
void Clear ( ) [protected], [inherited]
```

6.6.3.2 Context() [1/2]

Gets the localizer for a context in the current localizer.

Contexts are used to disambiguate the conversion of the same base-language string to different language-specific strings depending on the context where the conversion is performed.

Implements ILocalizer.

6.6.3.3 Context() [2/2]

Gets the localizer for a context in the current localizer.

Contexts are used to disambiguate the conversion of the same base-language string to different language-specific strings depending on the context where the conversion is performed.

Implements ILocalizer.

6.6.3.4 Load()

6.6.3.5 LoadXML() [1/12]

Loads translations for the current localizer language from a localization configuration file in XML format obtained from an embedded resource in the given assembly.

Parameters

assembly	Assembly that contains the embedded XML file.
resourceName	Name of the embedded resource for the XML file.
merge	Replaces the current translations with the loaded ones when < c > false, otherwise merges
	both (existing translations are overridden with loaded ones).

Exceptions

ParseException	Thrown when the stream contents cannot be parsed properly.
InvalidOperationException	Thrown when the embedded resource could not be found in the given assembly.

Implements ILoadableLocalizer.

6.6.3.6 LoadXML() [2/12]

```
void LoadXML (
          Assembly assembly,
          string resourceName,
          CultureInfo? culture = null )
```

Loads translations for the given *culture* from a localization configuration file in XML format obtained from an embedded resource in the given assembly.

All the translations loaded previously in the localizer are discarded and replaced with the new ones.

Implements ILoadableLocalizer.

6.6.3.7 LoadXML() [3/12]

Loads translations for the given *language* from a localization configuration file in XML format obtained from an embedded resource in the given assembly.

All the translations loaded previously in the localizer are discarded and replaced with the new ones.

Implements ILoadableLocalizer.

6.6.3.8 LoadXML() [4/12]

Loads translations for the current localizer language from a localization configuration file in XML format obtained from a stream.

Parameters

stream	Stream with the localization configuration.
merge	Replaces the current translations with the loaded ones when < c > false, otherwise merges both (existing
	translations are overridden with loaded ones).

Exceptions

ParseException	Thrown when the stream contents cannot be parsed properly.
----------------	--

Implements ILoadableLocalizer.

6.6.3.9 LoadXML() [5/12]

Loads translations for the given *culture* from a localization configuration file in XML format obtained from a stream.

All the translations loaded previously in the localizer are discarded and replaced with the new ones.

Implements ILoadableLocalizer.

6.6.3.10 LoadXML() [6/12]

```
void LoadXML ( {\tt Stream} \ stream, \\ {\tt string} \ language \ )
```

Loads translations for the given language from a localization configuration file obtained in XML format from a stream.

All the translations loaded previously in the localizer are discarded and replaced with the new ones.

Implements ILoadableLocalizer.

6.6.3.11 LoadXML() [7/12]

```
void LoadXML (
    string filepath,
    bool merge )
```

Loads translations for the current localizer language from a localization configuration file in XML format.

Parameters

filepath	Path to the localization configuration file.
merge	Replaces the current translations with the loaded ones when < c > false, otherwise merges both (existing
	translations are overridden with loaded ones).

Exceptions

ParseException Thrown when the input file cannot be parsed properly.
--

Implements ILoadableLocalizer.

6.6.3.12 LoadXML() [8/12]

Loads translations for the given *culture* from a localization configuration file in XML format.

All the translations loaded previously in the localizer are discarded and replaced with the new ones.

Implements ILoadableLocalizer.

6.6.3.13 LoadXML() [9/12]

```
void LoadXML ( {\tt string} \ \textit{filepath,} \\ {\tt string} \ \textit{language} \ )
```

Loads translations for the given *language* from a localization configuration file in XML format.

All the translations loaded previously in the localizer are discarded and replaced with the new ones.

Implements ILoadableLocalizer.

6.6.3.14 LoadXML() [10/12]

Loads translations for the current localizer language from a localization configuration in an XML document.

Parameters

doc	XML document with the localization configuration.
merge	Replaces the current translations with the loaded ones when < c > false, otherwise merges both (existing
	translations are overridden with loaded ones).

Exceptions

ParseException	Thrown when the stream contents cannot be parsed properly.
----------------	--

Implements ILoadableLocalizer.

6.6.3.15 LoadXML() [11/12]

Loads translations for the given *culture* from a localization configuration in an XML document.

All the translations loaded previously in the localizer are discarded and replaced with the new ones.

Implements ILoadableLocalizer.

6.6.3.16 LoadXML() [12/12]

Loads translations for the given language from a localization configuration in an XML document.

All the translations loaded previously in the localizer are discarded and replaced with the new ones.

Implements ILoadableLocalizer.

6.6.3.17 Localize() [1/3]

Localizes an interpolated string.

Converts the composite format string of the base-language formattable string *frmtText* (e.g. an interpolated string) to its corresponding language-specific localized composite format value, and then generates the result by formatting the localized composite format value along with the *frmtText* arguments by using the formatting conventions of the localizer culture.

Implements ILocalizer.

6.6.3.18 Localize() [2/3]

```
\label{eq:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:
```

Localizes multiple strings.

Converts the base-language strings in texts to their corresponding language-specific localized values.

Implements ILocalizer.

6.6.3.19 Localize() [3/3]

Localizes a string.

Converts the base-language string *text* to its corresponding language-specific localized value.

Implements ILocalizer.

6.6.3.20 LocalizeFormat() [1/2]

6.6.3.21 LocalizeFormat() [2/2]

Localizes and then formats a string.

Converts the base-language format string *format* to its corresponding language-specific localized format value, and then generates the result by formatting the localized format value along with the *args* arguments by using the formatting conventions of the localizer culture.

format	Base-language format string.
args	Arguments for the format string.

Returns

Formatted string generated from the language-specific localized format string if found, or generated from *format* otherwise.

Exceptions

ption Thrown when format or its localized format value is	ılid.
---	-------

Implemented in AutoLoadLocalizer.

6.6.4 Property Documentation

6.6.4.1 Language

```
Language Language [get], [set], [protected], [inherited]
```

6.6.4.2 TargetCulture

```
CultureInfo TargetCulture [get], [inherited]
```

Target culture of the localizer.

Implements ILocalizer.

6.6.4.3 TargetLanguage

```
string TargetLanguage [get], [inherited]
```

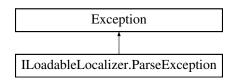
Target language of the localizer.

Implements ILocalizer.

6.7 ILoadableLocalizer.ParseException Class Reference

Exception thrown when a localization file cannot be parsed properly.

Inheritance diagram for ILoadableLocalizer.ParseException:



Public Member Functions

ParseException (string message)
 Constructor.

6.7.1 Detailed Description

Exception thrown when a localization file cannot be parsed properly.

6.7.2 Constructor & Destructor Documentation

6.7.2.1 ParseException()

Parameters

message	A message that describes the error.
---------	-------------------------------------

6.8 PlainString Class Reference

Represents just a string. This class is used to allow interpolated strings to preferably be passed as Formattable ← String instead of string to methods that overload both types.

Public Member Functions

PlainString (string value)
 Default constructor.

Static Public Member Functions

• static implicit operator PlainString (string value)

Converts a string value to a PlainString.

• static implicit operator PlainString (FormattableString value)

Converts a FormattableString value to a PlainString.

Properties

• string Value [get]

6.8.1 Detailed Description

Represents just a string. This class is used to allow interpolated strings to preferably be passed as Formattable String instead of string to methods that overload both types.

6.8.2 Constructor & Destructor Documentation

6.8.2.1 PlainString()

Default constructor.

6.8.3 Member Function Documentation

6.8.3.1 operator PlainString() [1/2]

```
static implicit operator PlainString ( FormattableString \ value \ ) \quad [static]
```

Converts a FormattableString value to a PlainString.

This implicit operator is needed to avoid FormattableString values to be automatically converted to string and then to PlainString when resolving parameter overloads.

Parameters

value	Value.

Exceptions

InvalidOperationException	Always thrown.
---------------------------	----------------

6.8.3.2 operator PlainString() [2/2]

```
static implicit operator PlainString ( string \ value \ ) \quad [static]
```

Converts a string value to a PlainString.

Parameters

value Value.

6.8.4 Property Documentation

6.8.4.1 Value

string Value [get]

Value of the string.

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