



KGySoft.ComponentModel Namespace

KGy SOFT Drawing
Libraries Help

Contains [TypeConverter](#) implementations.

Classes

	Class	Description
	AdvancedImageConverter	Provides a converter for Image instances that can preserve the original format of images better than the ImageConverter class when converting Bitmap , Metafile and Icon images.

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AdvancedImageConverter Class

Provides a converter for [Image](#) instances that can preserve the original format of images better than the [ImageConverter](#) class when converting [Bitmap](#), [Metafile](#) and [Icon](#) images.

Inheritance Hierarchy

[SystemObject](#) [System.ComponentModelTypeConverter](#)
[System.DrawingImageConverter](#)
KGySoft.ComponentModelAdvancedImageConverter

Namespace: [KGySoft.ComponentModel](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public class AdvancedImageConverter : ImageConverter
```

The **AdvancedImageConverter** type exposes the following members.

Constructors

	Name	Description
	AdvancedImageConverter	Initializes a new instance of the AdvancedImageConverter class

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Methods

	Name	Description
	CanConvertFrom(Type)	(Inherited from TypeConverter .)
	CanConvertFrom(ITypeDescriptorContext, Type)	(Inherited from ImageConverter .)
	CanConvertTo(Type)	(Inherited from TypeConverter .)

⇒	CanConvertTo(ITypeDescriptorContext, Type)	(Inherited from ImageConverter .)
⇒	ConvertFrom(Object)	(Inherited from TypeConverter .)
⇒	ConvertFrom(ITypeDescriptorContext, CultureInfo, Object)	Converts a specified object to an Image . (Overrides ImageConverterConvertFrom(ITypeDescriptorContext, CultureInfo, Object) .)
⇒	ConvertFromInvariantString(String)	(Inherited from TypeConverter .)
⇒	ConvertFromInvariantString(ITypeDescriptorContext, String)	(Inherited from TypeConverter .)
⇒	ConvertFromString(String)	(Inherited from TypeConverter .)
⇒	ConvertFromString(ITypeDescriptorContext, String)	(Inherited from TypeConverter .)
⇒	ConvertFromString(ITypeDescriptorContext, CultureInfo, String)	(Inherited from TypeConverter .)
⇒	ConvertTo(Object, Type)	(Inherited from TypeConverter .)
⇒	ConvertTo(ITypeDescriptorContext, CultureInfo, Object, Type)	Converts an Image (or an object that can be Image) to the specified type. (Overrides ImageConverterConvertTo(ITypeDescriptorContext, CultureInfo, Object, Type) .)
⇒	ConvertToInvariantString(Object)	(Inherited from TypeConverter .)
⇒	ConvertToInvariantString(ITypeDescriptorContext, Object)	(Inherited from TypeConverter .)
⇒	ConvertToString(Object)	(Inherited from TypeConverter .)
⇒	ConvertToString(ITypeDescriptorContext, Object)	(Inherited from TypeConverter .)
⇒	ConvertToString(ITypeDescriptorContext, CultureInfo, Object)	(Inherited from TypeConverter .)
⇒	CreateInstance(IDictionary)	(Inherited from TypeConverter .)
⇒	CreateInstance(ITypeDescriptorContext, IDictionary)	(Inherited from TypeConverter .)
⇒	Equals	(Inherited from Object .)
⇒	Finalize	(Inherited from Object .)
⇒	GetConvertFromException	(Inherited from TypeConverter .)
⇒	GetConvertToException	(Inherited from TypeConverter .)
⇒	GetCreateInstanceSupported	(Inherited from TypeConverter .)
⇒	GetCreateInstanceSupported(ITypeDescriptorContext)	(Inherited from TypeConverter .)

⇒	GetHashCode	(Inherited from Object.)
⇒	GetProperties(Object)	(Inherited from TypeConverter.)
⇒	GetProperties(ITypeDescriptorContext, Object)	(Inherited from TypeConverter.)
⇒	GetProperties(ITypeDescriptorContext, Object, Attribute)	(Inherited from ImageConverter.)
⇒	GetPropertiesSupported	(Inherited from TypeConverter.)
⇒	GetPropertiesSupported(ITypeDescriptorContext)	(Inherited from ImageConverter.)
⇒	GetStandardValues	(Inherited from TypeConverter.)
⇒	GetStandardValues(ITypeDescriptorContext)	(Inherited from TypeConverter.)
⇒	GetStandardValuesExclusive	(Inherited from TypeConverter.)
⇒	GetStandardValuesExclusive(ITypeDescriptorContext)	(Inherited from TypeConverter.)
⇒	GetStandardValuesSupported	(Inherited from TypeConverter.)
⇒	GetStandardValuesSupported(ITypeDescriptorContext)	(Inherited from TypeConverter.)
⇒	GetType	(Inherited from Object.)
⇒	IsValid(Object)	(Inherited from TypeConverter.)
⇒	IsValid(ITypeDescriptorContext, Object)	(Inherited from TypeConverter.)
👉	MemberwiseClone	(Inherited from Object.)
👉	SortProperties	(Inherited from TypeConverter.)
⇒	ToString	(Inherited from Object.)

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See Also

Reference

[KGySoft.ComponentModel Namespace](#)

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AdvancedImageConverter Constructor

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Initializes a new instance of the [AdvancedImageConverter](#) class

Namespace: [KGySoft.ComponentModel](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

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```
public AdvancedImageConverter()
```

See Also

Reference

[AdvancedImageConverter Class](#)

[KGySoft.ComponentModel Namespace](#)

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The [AdvancedImageConverter](#) type exposes the following members.

Methods

	Name	Description
⇒	CanConvertFrom(Type)	(Inherited from TypeConverter .)
⇒	CanConvertFrom(ITypeDescriptorContext, Type)	(Inherited from ImageConverter .)
⇒	CanConvertTo(Type)	(Inherited from TypeConverter .)
⇒	CanConvertTo(ITypeDescriptorContext, Type)	(Inherited from ImageConverter .)
⇒	ConvertFrom(Object)	(Inherited from TypeConverter .)
⇒	ConvertFrom(ITypeDescriptorContext, CultureInfo, Object)	Converts a specified object to an Image . (Overrides ImageConverterConvertFrom(ITypeDescriptorContext, CultureInfo, Object) .)
⇒	ConvertFromInvariantString(String)	(Inherited from TypeConverter .)
⇒	ConvertFromInvariantString(ITypeDescriptorContext, String)	(Inherited from TypeConverter .)
⇒	ConvertFromString(String)	(Inherited from TypeConverter .)
⇒	ConvertFromString(ITypeDescriptorContext, String)	(Inherited from TypeConverter .)
⇒	ConvertFromString(ITypeDescriptorContext, CultureInfo, String)	(Inherited from TypeConverter .)
⇒	ConvertTo(Object, Type)	(Inherited from TypeConverter .)
⇒	ConvertTo(ITypeDescriptorContext, CultureInfo, Object, Type)	Converts an Image (or an object that can be Image) to the specified type. (Overrides ImageConverterConvertTo(ITypeDescriptorContext, CultureInfo, Object, Type) .)
⇒	ConvertToInvariantString(Object)	(Inherited from TypeConverter .)
⇒	ConvertToInvariantString(ITypeDescriptorContext, Object)	(Inherited from TypeConverter .)

⇒	ConvertToString(Object)	(Inherited from TypeConverter.)
⇒	ConvertToString(ITypeDescriptorContext, Object)	(Inherited from TypeConverter.)
⇒	ConvertToString(ITypeDescriptorContext, CultureInfo, Object)	(Inherited from TypeConverter.)
⇒	CreateInstance(IDictionary)	(Inherited from TypeConverter.)
⇒	CreateInstance(ITypeDescriptorContext, IDictionary)	(Inherited from TypeConverter.)
⇒	Equals	(Inherited from Object.)
👉	Finalize	(Inherited from Object.)
👉	GetConvertFromException	(Inherited from TypeConverter.)
👉	GetConvertToException	(Inherited from TypeConverter.)
⇒	GetCreateInstanceSupported	(Inherited from TypeConverter.)
⇒	GetCreateInstanceSupported(ITypeDescriptorContext)	(Inherited from TypeConverter.)
⇒	GetHashCode	(Inherited from Object.)
⇒	GetProperties(Object)	(Inherited from TypeConverter.)
⇒	GetProperties(ITypeDescriptorContext, Object)	(Inherited from TypeConverter.)
⇒	GetProperties(ITypeDescriptorContext, Object, Attribute)	(Inherited from ImageConverter.)
⇒	GetPropertiesSupported	(Inherited from TypeConverter.)
⇒	GetPropertiesSupported(ITypeDescriptorContext)	(Inherited from ImageConverter.)
⇒	GetStandardValues	(Inherited from TypeConverter.)
⇒	GetStandardValues(ITypeDescriptorContext)	(Inherited from TypeConverter.)
⇒	GetStandardValuesExclusive	(Inherited from TypeConverter.)
⇒	GetStandardValuesExclusive(ITypeDescriptorContext)	(Inherited from TypeConverter.)
⇒	GetStandardValuesSupported	(Inherited from TypeConverter.)
⇒	GetStandardValuesSupported(ITypeDescriptorContext)	(Inherited from TypeConverter.)
⇒	GetType	(Inherited from Object.)
⇒	IsValid(Object)	(Inherited from TypeConverter.)
⇒	IsValid(ITypeDescriptorContext, Object)	(Inherited from TypeConverter.)
👉	MemberwiseClone	(Inherited from Object.)
👉	SortProperties	(Inherited from TypeConverter.)
⇒	ToString	(Inherited from Object.)

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[AdvancedImageConverter Class](#)

[KGySoft.ComponentModel Namespace](#)

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AdvancedImageConverterConvertFrom Method

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Overload List

	Name	Description
	ConvertFrom(Object)	(Inherited from TypeConverter .)
	ConvertFrom(ITypeDescriptorContext, CultureInfo, Object)	Converts a specified object to an Image . (Overrides ImageConverterConvertFrom(ITypeDescriptorContext, CultureInfo, Object) .)

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See Also

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[AdvancedImageConverter Class](#)

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AdvancedImageConverterConvertFrom Method (ITypeDescriptorContext, CultureInfo, Object)

KGy SOFT
Drawing
Libraries Help

Converts a specified object to an [Image](#).

Namespace: [KGySoft.ComponentModel](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public override Object ConvertFrom(  
    ITypeDescriptorContext context,  
    CultureInfo culture,  
    Object value  
)
```

Parameters

context

Type: [System.ComponentModel.ITypeDescriptorContext](#)

An [ITypeDescriptorContext](#) that provides a format context. In this converter this parameter is ignored.

culture

Type: [System.Globalization.CultureInfo](#)

A [CultureInfo](#). In this converter this parameter is ignored.

value

Type: [System.Object](#)

The [Object](#) to be converted.

Return Value

Type: [Object](#)

If this method succeeds, it returns the [Image](#) that it created by converting the specified object. Otherwise, it throws an exception.

See Also

Reference

[AdvancedImageConverter Class](#)

[ConvertFrom Overload](#)

[KGySoft.ComponentModel Namespace](#)

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Overload List

	Name	Description
	ConvertTo(Object, Type)	(Inherited from TypeConverter .)
	ConvertTo(ITypeDescriptorContext, CultureInfo, Object, Type)	Converts an Image (or an object that can be cast to an Image) to the specified type. (Overrides ImageConverterConvertTo(ITypeDescriptorContext, CultureInfo, Object, Type) .)

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[AdvancedImageConverter Class](#)

[KGySoft.ComponentModel Namespace](#)

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AdvancedImageConverterConvertTo Method (ITypeDescriptorContext, CultureInfo, Object, Type)

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Drawing
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Converts an [Image](#) (or an object that can be cast to an [Image](#)) to the specified type.

Namespace: [KGySoft.ComponentModel](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public override Object ConvertTo(  
    ITypeDescriptorContext context,  
    CultureInfo culture,  
    Object value,  
    Type destinationType  
)
```

Parameters

context

Type: [System.ComponentModel.ITypeDescriptorContext](#)

An [ITypeDescriptorContext](#) that provides a format context. In this converter this parameter is ignored.

culture

Type: [System.Globalization.CultureInfo](#)

A [CultureInfo](#). In this converter this parameter is ignored.

value

Type: [System.Object](#)

The [Image](#) to convert.

destinationType

Type: [System.Type](#)

The [Type](#) to convert the [Image](#) to. This type converter supports [byte\[\]](#) type.

Return Value

Type: [Object](#)

An [Object](#) that represents the converted value.

See Also

Reference

[AdvancedImageConverter Class](#)

[ConvertTo Overload](#)

[KGySoft.ComponentModel Namespace](#)

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The `KGySoft.Drawing` namespace contains extension methods and types built around the types of the `System.Drawing` namespace. Among others, provides advanced support for the `Icon` type such as extracting, combining and converting multi-resolution icons, including hi-resolution ones, supports saving several `Image` formats without built-in encoders (TIFF, GIF, Icon, EMF and WMF), provides pixel format conversion with arbitrary palette and preserving transparency, etc.

Classes

	Class	Description
	BitmapExtensions	Contains extension methods for the <code>Bitmap</code> type.
	CursorHandle	Represents a windows cursor. The <code>CursorHandle</code> instance can be passed to the <code>System.Windows.Forms.Cursor</code> constructor to create a new cursor.
	GraphicsExtensions	Contains extension methods for the <code>Graphics</code> type.
	IconExtensions	Contains extension methods for the <code>Icon</code> type.
	Icons	Provides some icon-related methods as well as properties returning general icons in multi resolution. Unlike <code>SystemIcons</code> , these icons should be disposed when not used any more.
	ImageExtensions	Contains extension methods for the <code>Image</code> type.
	MetafileExtensions	Contains extension methods for the <code>Metafile</code> type.

Enumerations

	Enumeration	Description
	StockIcon	Represents the Windows stock icons can be retrieved by the <code>Icons.GetStockIcon</code> method in Windows Vista and above. See also the <code>SHSTOCKICONID Enumeration</code> at the Microsoft Docs site.
	SystemIconSize	Represents the predefined system icon sizes.

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Contains extension methods for the [Bitmap](#) type.

Inheritance Hierarchy

[System.Object](#) **KGySoft.Drawing.BitmapExtensions**

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static class BitmapExtensions
```

The **BitmapExtensions** type exposes the following members.

Methods

	Name	Description
	CloneCurrentFrame	Creates a clone of the current frame of the provided Bitmap instance. Unlike the Bitmap(Image) constructor, this method preserves original pixel format, and unlike Bitmap.Clone(Rectangle, PixelFormat) method, this method returns a single frame image.
	ExtractBitmaps	When <i>image</i> contains multiple pages, frames or multi-resolution sub-images, returns them as separated Bitmap instances. Otherwise, returns a new Bitmap with the copy of the original <i>image</i> .
	GetColors	Gets the colors used in the defined <i>bitmap</i> . A limit can be defined in <i>maxColors</i> .
	Resize	Resizes the image with high quality. The result is always a 32 bit ARGB image.
	ToCursorHandle	Converts the provided <i>bitmap</i> to a CursorHandle , which can be passed to the System.Windows.Forms.Cursor constructor to create a new cursor.

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See Also

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[KGySoft.Drawing Namespace](#)

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BitmapExtensions Methods KGy SOFT Drawing Libraries Help

The [BitmapExtensions](#) type exposes the following members.

Methods

	Name	Description
	CloneCurrentFrame	Creates a clone of the current frame of the provided Bitmap instance. Unlike the Bitmap(Image) constructor, this method preserves original pixel format, and unlike Bitmap.Clone(Rectangle,PixelFormat) method, this method returns a single frame image.
	ExtractBitmaps	When <i>image</i> contains multiple pages, frames or multi-resolution sub-images, returns them as separated Bitmap instances. Otherwise, returns a new Bitmap with the copy of the original <i>image</i> .
	GetColors	Gets the colors used in the defined <i>bitmap</i> . A limit can be defined in <i>maxColors</i> .
	Resize	Resizes the image with high quality. The result is always a 32 bit ARGB image.
	ToCursorHandle	Converts the provided <i>bitmap</i> to a CursorHandle , which can be passed to the System.Windows.Forms.Cursor constructor to create a new cursor.

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See Also

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[BitmapExtensions Class](#)

[KGySoft.Drawing Namespace](#)

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BitmapExtensions.CloneCurrentFrame Method

KGy SOFT
Drawing Libraries
Help

Creates a clone of the current frame of the provided [Bitmap](#) instance. Unlike the [Bitmap\(Image\)](#) constructor, this method preserves original pixel format, and unlike [Bitmap.Clone\(Rectangle,PixelFormat\)](#) method, this method returns a single frame image.

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static Bitmap CloneCurrentFrame(  
    this Bitmap bitmap  
)
```

Parameters

bitmap

Type: [System.Drawing.Bitmap](#)

The bitmap to be cloned.

Return Value

Type: [Bitmap](#)

A single frame [Bitmap](#) instance that has the same content and has the same pixel format as the current frame of the source bitmap.

Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Bitmap](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

See Also

Reference

BitmapExtensions Class

KGySoft.Drawing Namespace

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BitmapExtensionsExtractBitmaps Method

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Libraries Help

When *image* contains multiple pages, frames or multi-resolution sub-images, returns them as separated [Bitmap](#) instances. Otherwise, returns a new [Bitmap](#) with the copy of the original *image*.

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

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```
public static Bitmap[] ExtractBitmaps(  
    this Bitmap image  
)
```

Parameters

image

Type: [System.Drawing.Bitmap](#)

An [Image](#) instance, which may contain multiple pages, frames or multi-resolution sub-images.

Return Value

Type: [Bitmap](#)

An array of [Bitmap](#) instances, which contains the images of the provided *image*.

Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Bitmap](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

See Also

Reference

[BitmapExtensions Class](#)

KGySoft.Drawing Namespace

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Gets the colors used in the defined *bitmap*. A limit can be defined in *maxColors*.

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static Color[] GetColors(  
    this Bitmap bitmap,  
    int maxColors = 0  
)
```

Parameters

bitmap

Type: [System.Drawing.Bitmap](#)

The bitmap to get its colors. When it is indexed, its palette is returned and *maxColors* is ignored.

maxColors (Optional)

Type: [System.Int32](#)

A limit of the returned colors. This parameter is ignored for indexed bitmaps. Use 0 for no limit. This parameter is optional.

Default value: 0.

Return Value

Type: [Color](#)

An array of [Color](#) entries.

Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Bitmap](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

Remarks

The method is optimized for [Format32bppRgb](#) and [Format32bppArgb](#) formats.

See Also

Reference

[BitmapExtensions Class](#)

[KGySoft.Drawing Namespace](#)

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BitmapExtensions.Resize Method

Resizes the image with high quality. The result is always a 32 bit ARGB image.

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static Bitmap Resize(  
    this Bitmap image,  
    Size newSize,  
    bool keepAspectRatio  
)
```

Parameters

image

Type: [System.Drawing.Bitmap](#)

The original image to resize

newSize

Type: [System.Drawing.Size](#)

The requested new size.

keepAspectRatio

Type: [System.Boolean](#)

Determines whether the source *image* should keep aspect ratio.

Return Value

Type: [Bitmap](#)

A [Bitmap](#) instance with the new size.

Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Bitmap](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension](#)

[Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

See Also

Reference

[BitmapExtensions Class](#)

[KGySoft.Drawing Namespace](#)

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BitmapExtensionsToCursorHandle Method

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Libraries Help

Converts the provided *bitmap* to a [CursorHandle](#), which can be passed to the [System.Windows.Forms.Cursor](#) constructor to create a new cursor.

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static CursorHandle ToCursorHandle(  
    this Bitmap bitmap,  
    Point cursorHotspot = null  
)
```

Parameters

bitmap

Type: [System.Drawing.Bitmap](#)

The [Bitmap](#), which should be converted to a cursor.

cursorHotspot (Optional)

Type: [System.Drawing.Point](#)

The hotspot coordinates of the cursor. This parameter is optional.

Default value: $\text{0}; \text{0}$ (top-left corner)

Return Value

Type: [CursorHandle](#)

A [CursorHandle](#) instance that can be used to create a [System.Windows.Forms.Cursor](#) instance.

Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Bitmap](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

See Also

Reference

[BitmapExtensions Class](#)

[KGySoft.Drawing Namespace](#)

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Represents a windows cursor. The **CursorHandle** instance can be passed to the [System.Windows.Forms.Cursor](#) constructor to create a new cursor.

Inheritance Hierarchy

[System.Object](#) [System.Runtime.ConstrainedExecutionCriticalFinalizerObject](#)
[System.Runtime.InteropServices.SafeHandle](#)
KGySoft.Drawing.CursorHandle

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public sealed class CursorHandle : SafeHandle
```

The **CursorHandle** type exposes the following members.

Methods

	Name	Description
	Close	(Inherited from SafeHandle .)
	DangerousAddRef	(Inherited from SafeHandle .)
	DangerousGetHandle	(Inherited from SafeHandle .)
	DangerousRelease	(Inherited from SafeHandle .)
	Dispose	(Inherited from SafeHandle .)
	Equals	(Inherited from Object .)
	GetHashCode	(Inherited from Object .)
	GetType	(Inherited from Object .)
	SetHandleAsInvalid	(Inherited from SafeHandle .)



To**String**

(Inherited from [Object](#).)

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Operators

	Name	Description
	(CursorHandle to IntPtr)	Performs an implicit conversion from CursorHandle to IntPtr .

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Properties

	Name	Description
	IsClosed	(Inherited from SafeHandle .)
	IsInvalid	Gets whether the handle value is invalid. (Overrides SafeHandleIsInvalid .)

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Remarks

A **CursorHandle** instance can be created from an [Icon](#) or [Bitmap](#) instance by using the [IconExtensions.ToCursorHandle](#) and [BitmapExtensions.ToCursorHandle](#) extension methods.

This class can be used to create a custom Windows Forms [System.Windows.Forms.Cursor](#).

Important

Do keep a reference to this **CursorHandle** instance until the cursor is in use; otherwise, the cursor resources might be disposed too soon.

See Also

Reference

[KGySoft.Drawing Namespace](#)

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The [CursorHandle](#) type exposes the following members.

Methods

	Name	Description
⇒	Close	(Inherited from SafeHandle .)
⇒	DangerousAddRef	(Inherited from SafeHandle .)
⇒	DangerousGetHandle	(Inherited from SafeHandle .)
⇒	DangerousRelease	(Inherited from SafeHandle .)
⇒	Dispose	(Inherited from SafeHandle .)
⇒	Equals	(Inherited from Object .)
⇒	GetHashCode	(Inherited from Object .)
⇒	GetType	(Inherited from Object .)
⇒	SetHandleAsInvalid	(Inherited from SafeHandle .)
⇒	ToString	(Inherited from Object .)

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See Also

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[CursorHandle Class](#)

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CursorHandle Type Conversions

The [CursorHandle](#) type exposes the following members.

Operators

	Name	Description
	(CursorHandle to IntPtr)	Performs an implicit conversion from CursorHandle to IntPtr .

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See Also

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[CursorHandle Class](#)

[KGySoft.Drawing Namespace](#)

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CursorHandle Conversion (CursorHandle to IntPtr)

KGy SOFT Drawing
Libraries Help

Performs an implicit conversion from [CursorHandle](#) to [IntPtr](#).

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static implicit operator IntPtr (  
    CursorHandle cursorHandle  
)
```

Parameters

cursorHandle

Type: [KGySoft.Drawing.CursorHandle](#)

The cursor handle.

Return Value

Type: [IntPtr](#)

An [IntPtr](#) instance representing the native cursor handle.

See Also

Reference

[CursorHandle Class](#)

[KGySoft.Drawing Namespace](#)

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The [CursorHandle](#) type exposes the following members.

Properties

	Name	Description
	IsClosed	(Inherited from SafeHandle .)
	IsValid	Gets whether the handle value is invalid. (Overrides SafeHandleIsValid .)

[Top](#)

See Also

Reference

[CursorHandle Class](#)

[KGySoft.Drawing Namespace](#)

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CursorHandleIsValid Property

Gets whether the handle value is invalid.

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public override bool IsValid { get; }
```

Property Value

Type: [Boolean](#)

See Also

Reference

[CursorHandle Class](#)

[KGySoft.Drawing Namespace](#)

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GraphicsExtensions Class KGy SOFT Drawing Libraries Help

Contains extension methods for the [Graphics](#) type.

Inheritance Hierarchy

[SystemObject](#) **KGySoft.DrawingGraphicsExtensions**

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static class GraphicsExtensions
```

The **GraphicsExtensions** type exposes the following members.

Methods

	Name	Description
	DrawRoundedRectangle (Graphics , Pen , Rectangle , Int32)	Draws a rounded rectangle specified by a bounding Rectangle and a common corner radius value for each corners.
	DrawRoundedRectangle (Graphics , Pen , Rectangle , Int32 , Int32 , Int32 , Int32)	Draws a rounded rectangle specified by a bounding Rectangle and four corner radius values.
	FillRoundedRectangle (Graphics , Brush , Rectangle , Int32)	Fills a rounded rectangle specified by a bounding Rectangle and a common corner radius value for each corners.
	FillRoundedRectangle (Graphics , Brush , Rectangle , Int32 , Int32 , Int32 , Int32)	Fills a rounded rectangle specified by a bounding Rectangle and four custom corner radius values.
	ToBitmap	Copies the Graphics object provided in <i>graphics</i> parameter to a Bitmap instance.

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See Also

Reference

[KGySoft.Drawing Namespace](#)

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The [GraphicsExtensions](#) type exposes the following members.

Methods

	Name	Description
	DrawRoundedRectangle (Graphics, Pen, Rectangle, Int32)	Draws a rounded rectangle specified by a bounding Rectangle and a common corner radius value for each corners.
	DrawRoundedRectangle (Graphics, Pen, Rectangle, Int32, Int32, Int32, Int32)	Draws a rounded rectangle specified by a bounding Rectangle and four corner radius values.
	FillRoundedRectangle (Graphics, Brush, Rectangle, Int32)	Fills a rounded rectangle specified by a bounding Rectangle and a common corner radius value for each corners.
	FillRoundedRectangle (Graphics, Brush, Rectangle, Int32, Int32, Int32, Int32)	Fills a rounded rectangle specified by a bounding Rectangle and four custom corner radius values.
	ToBitmap	Copies the Graphics object provided in <i>graphics</i> parameter to a Bitmap instance.

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See Also

Reference

[GraphicsExtensions Class](#)

[KGySoft.Drawing Namespace](#)

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GraphicsExtensionsDrawRoundedRectangle Method

Overload List

	Name	Description
	DrawRoundedRectangle(Graphics, Pen, Rectangle, Int32)	Draws a rounded rectangle specified by a bounding Rectangle and a common corner radius value for each corners.
	DrawRoundedRectangle(Graphics, Pen, Rectangle, Int32, Int32, Int32, Int32)	Draws a rounded rectangle specified by a bounding Rectangle and four corner radius values.

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See Also

Reference

[GraphicsExtensions Class](#)

[KGySoft.Drawing Namespace](#)

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GraphicsExtensionsDrawRoundedRectangle Method (Graphics, Pen, Rectangle, Int32)

Draws a rounded rectangle specified by a bounding [Rectangle](#) and a common corner radius value for each corners.

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static void DrawRoundedRectangle(  
    this Graphics graphics,  
    Pen pen,  
    Rectangle bounds,  
    int cornerRadius  
)
```

Parameters

graphics

Type: [System.Drawing.Graphics](#)

The [Graphics](#) instance to draw on.

pen

Type: [System.Drawing.Pen](#)

The [Pen](#) instance to be used for the drawing.

bounds

Type: [System.Drawing.Rectangle](#)

A [Rectangle](#) that bounds the rounded rectangle.

cornerRadius

Type: [System.Int32](#)

Size of the corner radius for each corners.

Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Graphics](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

See Also

Reference

[GraphicsExtensions Class](#)

[DrawRoundedRectangle Overload](#)

[KGySoft.Drawing Namespace](#)

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GraphicsExtensionsDrawRoundedRectangle Method (Graphics, Pen, Rectangle, Int32, Int32, Int32, Int32)

KGy
SOFT
Drawing
Libraries
Help

Draws a rounded rectangle specified by a bounding [Rectangle](#) and four corner radius values.

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static void DrawRoundedRectangle(  
    this Graphics graphics,  
    Pen pen,  
    Rectangle bounds,  
    int radiusTopLeft,  
    int radiusTopRight,  
    int radiusBottomRight,  
    int radiusBottomLeft  
)
```

Parameters

graphics

Type: [System.Drawing.Graphics](#)

The [Graphics](#) instance to draw on.

pen

Type: [System.Drawing.Pen](#)

The [Pen](#) instance to be used for the drawing.

bounds

Type: [System.Drawing.Rectangle](#)

A [Rectangle](#) that bounds the rounded rectangle.

radiusTopLeft

Type: [SystemInt32](#)

Size of the top-left radius.

radiusTopRight

Type: [SystemInt32](#)

Size of the top-right radius.

radiusBottomRight

Type: [SystemInt32](#)

Size of the bottom-right radius.

radiusBottomLeft

Type: [SystemInt32](#)

Size of the bottom-left radius.

Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Graphics](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

See Also

Reference

[GraphicsExtensions Class](#)

[DrawRoundedRectangle Overload](#)

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GraphicsExtensionsFillRoundedRectangle Method

KGy SOFT
Drawing
Libraries Help

Overload List

	Name	Description
	FillRoundedRectangle(Graphics, Brush, Rectangle, Int32)	Fills a rounded rectangle specified by a bounding Rectangle and a common corner radius value for each corners.
	FillRoundedRectangle(Graphics, Brush, Rectangle, Int32, Int32, Int32, Int32)	Fills a rounded rectangle specified by a bounding Rectangle and four custom corner radius values.

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See Also

Reference

[GraphicsExtensions Class](#)

[KGySoft.Drawing Namespace](#)

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GraphicsExtensionsFillRoundedRectangle Method (Graphics, Brush, Rectangle, Int32)

KGy SOFT
Drawing
Libraries Help

Fills a rounded rectangle specified by a bounding [Rectangle](#) and a common corner radius value for each corners.

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static void FillRoundedRectangle(  
    this Graphics graphics,  
    Brush brush,  
    Rectangle bounds,  
    int cornerRadius  
)
```

Parameters

graphics

Type: [System.DrawingGraphics](#)

The [Graphics](#) instance to draw on.

brush

Type: [System.DrawingBrush](#)

The [Brush](#) instance to be used for the drawing.

bounds

Type: [System.DrawingRectangle](#)

A [Rectangle](#) that bounds the rounded rectangle.

cornerRadius

Type: [SystemInt32](#)

Size of the corner radius for each corners.

Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Graphics](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

See Also

Reference

[GraphicsExtensions Class](#)

[FillRoundedRectangle Overload](#)

[KGySoft.Drawing Namespace](#)

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GraphicsExtensionsFillRoundedRectangle Method (Graphics, Brush, Rectangle, Int32, Int32, Int32, Int32)

KGy SOFT
Drawing
Libraries
Help

Fills a rounded rectangle specified by a bounding [Rectangle](#) and four custom corner radius values.

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static void FillRoundedRectangle(  
    this Graphics graphics,  
    Brush brush,  
    Rectangle bounds,  
    int radiusTopLeft,  
    int radiusTopRight,  
    int radiusBottomRight,  
    int radiusBottomLeft  
)
```

Parameters

graphics

Type: [System.Drawing.Graphics](#)

The [Graphics](#) instance to draw on.

brush

Type: [System.Drawing.Brush](#)

The [Brush](#) instance to be used for the drawing.

bounds

Type: [System.Drawing.Rectangle](#)

A [Rectangle](#) that bounds the rounded rectangle.

radiusTopLeft

Type: [SystemInt32](#)

Size of the top-left radius.

radiusTopRight

Type: [SystemInt32](#)

Size of the top-right radius.

radiusBottomRight

Type: [SystemInt32](#)

Size of the bottom-right radius.

radiusBottomLeft

Type: [SystemInt32](#)

Size of the bottom-left radius.

Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Graphics](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

See Also

Reference

[GraphicsExtensions Class](#)

[FillRoundedRectangle Overload](#)

[KGySoft.Drawing Namespace](#)

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GraphicsExtensionsToBitmap Method

KGy SOFT Drawing
Libraries Help

Copies the [Graphics](#) object provided in *graphics* parameter to a [Bitmap](#) instance.

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static Bitmap ToBitmap(  
    this Graphics graphics,  
    bool visibleClipOnly  
)
```

Parameters

graphics

Type: [System.DrawingGraphics](#)

The [Graphics](#) instance to be converted.

visibleClipOnly

Type: [SystemBoolean](#)

When , the result will contain only the area represented by

[VisibleClipBounds](#) property. When , the result will contain the image of the whole container source (when a container object is found), where the visible clip bounds can be identified by [VisibleClipBounds](#) in pixels.

Return Value

Type: [Bitmap](#)

A [Bitmap](#) object that contains the image content of the source [Graphics](#) object, or , when the required area of *graphics* is empty.

Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Graphics](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension](#)

[Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

See Also

Reference

[GraphicsExtensions Class](#)

[KGySoft.Drawing Namespace](#)

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Contains extension methods for the [Icon](#) type.

Inheritance Hierarchy

[SystemObject](#) **KGySoft.DrawingIconExtensions**

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static class IconExtensions
```

The **IconExtensions** type exposes the following members.

Methods

	Name	Description
	Combine(Icon, Bitmap)	Combines an Icon instance with the provided <i>images</i> into a multi-resolution Icon instance.
	Combine(Icon, Icon)	Combines an Icon instance with the provided <i>icons</i> into a multi-resolution Icon instance.
	Combine(Icon, Bitmap, Color)	Combines an Icon instance with the provided <i>image</i> into a multi-resolution Icon instance.
	ExtractBitmap(Icon, Boolean)	Extracts the first image from an Icon instance. If the icon has only one image consider to use ToAlphaBitmap , which is faster.
	ExtractBitmap(Icon, Size, Boolean)	Extracts the first image of specified size from an Icon instance.
	ExtractBitmap(Icon, Int32, Boolean)	Extracts the image of specified index from an Icon instance.
	ExtractBitmap(Icon, Size, PixelFormat, Boolean)	Extracts the image of specified size and pixel format from an Icon instance.

⇒  ExtractBitmaps(Icon, Boolean)	Extracts every image from an Icon instance.
⇒  ExtractBitmaps(Icon, PixelFormat, Boolean)	Extracts every image of specified pixel format from an Icon instance.
⇒  ExtractBitmaps(Icon, Size, Boolean)	Extracts every image of specified size from an Icon instance.
⇒  ExtractIcon(Icon, Size)	Extracts the first icon of specified size from an Icon instance. Unless the Icon constructors, this method works as expected.
⇒  ExtractIcon(Icon, Int32)	Extracts the icon of specified index from an Icon instance.
⇒  ExtractIcon(Icon, Size, PixelFormat)	Extracts the icon of specified size and pixel format from an Icon instance. Unless the Icon constructors, this method works as expected.
⇒  ExtractIcons(Icon)	Extracts every icon from an Icon instance as separated instances.
⇒  ExtractIcons(Icon, PixelFormat)	Extracts every icon of specified pixel format from an Icon instance as separated instances.
⇒  ExtractIcons(Icon, Size)	Extracts every icon of specified size from an Icon instance as separated instances.
⇒  ExtractNearestBitmap	Extracts the nearest image of specified size and pixel format from an Icon instance.
⇒  ExtractNearestIcon	Extracts the nearest icon of specified size and pixel format from an Icon instance. Unless the Icon constructors, this method works as expected.
⇒  GetImagesCount	Gets the number of images in the <i>icon</i> .
⇒  SaveHighQuality	Saves the <i>icon</i> into the specified <i>stream</i> . Unlike Icon.Save , this method can save every icon with high quality, even SystemIcons members, and icons created by the Icon.FromHandle method.
⇒  ToAlphaBitmap	Converts the specified <i>icon</i> to a Bitmap . While Icon.ToBitmap may return a wrong result when icon contains semi-transparent pixels, this method returns an image, in which alpha channel is always correctly applied for the image.
⇒  ToCursorHandle	Converts the provided <i>icon</i> to a CursorHandle , which can be passed to the System.Windows.Forms.Cursor constructor to create a new cursor.
⇒  ToMultiResBitmap	Converts the <i>icon</i> to a Bitmap instance, which contains every image of the <i>icon</i> . When the returned Bitmap is used to create another Bitmap or is drawn into a Graphics , the best-fitting image is automatically applied.

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See Also

Reference

[KGySoft.Drawing Namespace](#)

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The [IconExtensions](#) type exposes the following members.

Methods

	Name	Description
⇒ 	Combine(Icon, Bitmap)	Combines an Icon instance with the provided <i>images</i> into a multi-resolution Icon instance.
⇒ 	Combine(Icon, Icon)	Combines an Icon instance with the provided <i>icons</i> into a multi-resolution Icon instance.
⇒ 	Combine(Icon, Bitmap, Color)	Combines an Icon instance with the provided <i>image</i> into a multi-resolution Icon instance.
⇒ 	ExtractBitmap(Icon, Boolean)	Extracts the first image from an Icon instance. If the icon has only one image consider to use ToAlphaBitmap , which is faster.
⇒ 	ExtractBitmap(Icon, Size, Boolean)	Extracts the first image of specified size from an Icon instance.
⇒ 	ExtractBitmap(Icon, Int32, Boolean)	Extracts the image of specified index from an Icon instance.
⇒ 	ExtractBitmap(Icon, Size, PixelFormat, Boolean)	Extracts the image of specified size and pixel format from an Icon instance.
⇒ 	ExtractBitmaps(Icon, Boolean)	Extracts every image from an Icon instance.
⇒ 	ExtractBitmaps(Icon, PixelFormat, Boolean)	Extracts every image of specified pixel format from an Icon instance.
⇒ 	ExtractBitmaps(Icon, Size, Boolean)	Extracts every image of specified size from an Icon instance.
⇒ 	ExtractIcon(Icon, Size)	Extracts the first icon of specified size from an Icon instance. Unless the Icon constructors, this method works as expected.
⇒ 	ExtractIcon(Icon, Int32)	Extracts the icon of specified index from an Icon instance.
⇒ 	ExtractIcon(Icon, Size, PixelFormat)	Extracts the icon of specified size and pixel format from an Icon instance. Unless the Icon constructors, this method works as

		expected.
⇒ 	ExtractIcons(Icon)	Extracts every icon from an Icon instance as separated instances.
⇒ 	ExtractIcons(Icon, PixelFormat)	Extracts every icon of specified pixel format from an Icon instance as separated instances.
⇒ 	ExtractIcons(Icon, Size)	Extracts every icon of specified size from an Icon instance as separated instances.
⇒ 	ExtractNearestBitmap	Extracts the nearest image of specified size and pixel format from an Icon instance.
⇒ 	ExtractNearestIcon	Extracts the nearest icon of specified size and pixel format from an Icon instance. Unless the Icon constructors, this method works as expected.
⇒ 	GetImagesCount	Gets the number of images in the <i>icon</i> .
⇒ 	SaveHighQuality	Saves the <i>icon</i> into the specified <i>stream</i> . Unlike Icon.Save , this method can save every icon with high quality, even SystemIcons members, and icons created by the Icon.FromHandle method.
⇒ 	ToAlphaBitmap	Converts the specified <i>icon</i> to a Bitmap . While Icon.ToBitmap may return a wrong result when icon contains semi-transparent pixels, this method returns an image, in which alpha channel is always correctly applied for the image.
⇒ 	ToCursorHandle	Converts the provided <i>icon</i> to a CursorHandle , which can be passed to the System.Windows.Forms.Cursor constructor to create a new cursor.
⇒ 	ToMultiResBitmap	Converts the <i>icon</i> to a Bitmap instance, which contains every image of the <i>icon</i> . When the returned Bitmap is used to create another Bitmap or is drawn into a Graphics , the best-fitting image is automatically applied.

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See Also

Reference

[IconExtensions Class](#)

[KGySoft.Drawing Namespace](#)

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Overload List

	Name	Description
	Combine(Icon, Bitmap)	Combines an Icon instance with the provided <i>images</i> into a multi-resolution Icon instance.
	Combine(Icon, Icon)	Combines an Icon instance with the provided <i>icons</i> into a multi-resolution Icon instance.
	Combine(Icon, Bitmap, Color)	Combines an Icon instance with the provided <i>image</i> into a multi-resolution Icon instance.

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See Also

Reference

[IconExtensions Class](#)

[KGySoft.Drawing Namespace](#)

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IconExtensionsCombine Method (Icon, Bitmap)

KGy SOFT Drawing
Libraries Help

Combines an [Icon](#) instance with the provided *images* into a multi-resolution [Icon](#) instance.

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static Icon Combine(  
    this Icon icon,  
    params Bitmap[] images  
)
```

Parameters

icon

Type: [System.Drawing.Icon](#)

The icon to combine with other images.

images

Type: [System.Drawing.Bitmap](#)

The images to be added to the *icon*. Images can be non-squared ones.

Return Value

Type: [Icon](#)

An [Icon](#) instance that contains every image of the source *images*.

Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Icon](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

Remarks

icon may already contain multiple icons.

See Also

Reference

[IconExtensions Class](#)

[Combine Overload](#)

[KGySoft.Drawing Namespace](#)

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IconExtensionsCombine Method (Icon, Icon)

KGy SOFT Drawing
Libraries Help

Combines an [Icon](#) instance with the provided *icons* into a multi-resolution [Icon](#) instance.

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static Icon Combine(  
    this Icon icon,  
    params Icon[] icons  
)
```

Parameters

icon

Type: [System.Drawing.Icon](#)

The icon to combine with other icons.

icons

Type: [System.Drawing.Icon](#)

The icons to be combined with the specified *icon*.

Return Value

Type: [Icon](#)

An [Icon](#) instance that contains every image of the source *icons*.

Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Icon](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

Remarks

Both *icon* and elements of *icons* may contain multiple icons.

See Also

Reference

[IconExtensions Class](#)

[Combine Overload](#)

[KGySoft.Drawing Namespace](#)

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IconExtensionsCombine Method (Icon, Bitmap, Color)

KGy SOFT Drawing
Libraries Help

Combines an [Icon](#) instance with the provided *image* into a multi-resolution [Icon](#) instance.

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static Icon Combine(  
    this Icon icon,  
    Bitmap image,  
    Color transparentColor  
)
```

Parameters

icon

Type: [System.Drawing.Icon](#)

The icon to combine with other images.

image

Type: [System.Drawing.Bitmap](#)

The image to be added to the *icon*. Can be a non-squared one.

transparentColor

Type: [System.Drawing.Color](#)

A color that represents the transparent color in *image*.

Return Value

Type: [Icon](#)

An [Icon](#) instance that contains the source *image*.

Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Icon](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension](#)

[Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

Remarks

icon may already contain multiple icons.

See Also

Reference

[IconExtensions Class](#)

[Combine Overload](#)

[KGySoft.Drawing Namespace](#)

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IconExtensionsExtractBitmap Method

Overload List

	Name	Description
	ExtractBitmap(Icon, Boolean)	Extracts the first image from an Icon instance. If the icon has only one image consider to use ToAlphaBitmap , which is faster.
	ExtractBitmap(Icon, Size, Boolean)	Extracts the first image of specified size from an Icon instance.
	ExtractBitmap(Icon, Int32, Boolean)	Extracts the image of specified index from an Icon instance.
	ExtractBitmap(Icon, Size, PixelFormat, Boolean)	Extracts the image of specified size and pixel format from an Icon instance.

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See Also

Reference

[IconExtensions Class](#)

[KGySoft.Drawing Namespace](#)

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IconExtensionsExtractBitmap Method (Icon, Boolean)

KGy SOFT Drawing
Libraries Help

Extracts the first image from an [Icon](#) instance. If the icon has only one image consider to use [ToAlphaBitmap](#), which is faster.

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static Bitmap ExtractBitmap(  
    this Icon icon,  
    bool keepOriginalFormat = false  
)
```

Parameters

icon

Type: [System.Drawing.Icon](#)

The icon that may contain multiple images.

keepOriginalFormat (Optional)

Type: [System.Boolean](#)

If , keeps the original image format stored in the *icon*. Possible transparent pixels of non-32 bpp ARGB formats may be black. If , always returns 32 bpp images with transparency. This parameter is optional.

Default value: .

Return Value

Type: [Bitmap](#)

An [Bitmap](#) instance, which was extracted from the *icon*, or if no image was found in the *icon*.

Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Icon](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension](#)

[Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

See Also

Reference

[IconExtensions Class](#)

[ExtractBitmap Overload](#)

[KGySoft.Drawing Namespace](#)

[IconExtensionsToAlphaBitmap\(Icon\)](#)

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IconExtensionsExtractBitmap Method (Icon, Size, Boolean)

KGy SOFT Drawing
Libraries Help

Extracts the first image of specified size from an [Icon](#) instance.

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static Bitmap ExtractBitmap(  
    this Icon icon,  
    Size size,  
    bool keepOriginalFormat = false  
)
```

Parameters

icon

Type: [System.Drawing.Icon](#)

The icon that may contain multiple images.

size

Type: [System.Drawing.Size](#)

The required icon size to retrieve.

keepOriginalFormat (Optional)

Type: [System.Boolean](#)

If `true`, keeps the original image format stored in the *icon*. Possible transparent pixels of non-32 bpp ARGB formats may be black. If `false`, always returns 32 bpp images with transparency. This parameter is optional.

Default value: `false`.

Return Value

Type: [Bitmap](#)

An [Bitmap](#) instance, which was extracted from the *icon*, or `null` if no icon found with the specified size.

Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Icon](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

See Also

Reference

[IconExtensions Class](#)

[ExtractBitmap Overload](#)

[KGySoft.Drawing Namespace](#)

[IconExtensionsExtractIcon\(Icon, Size\)](#)

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IconExtensionsExtractBitmap Method (Icon, Int32, Boolean)

KGy SOFT Drawing
Libraries Help

Extracts the image of specified index from an [Icon](#) instance.

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static Bitmap ExtractBitmap(  
    this Icon icon,  
    int index,  
    bool keepOriginalFormat = false  
)
```

Parameters

icon

Type: [System.Drawing.Icon](#)

The icon that may contain multiple images.

index

Type: [System.Int32](#)

The zero-based index of the icon image to retrieve.

keepOriginalFormat (Optional)

Type: [System.Boolean](#)

If `true`, keeps the original image format stored in the *icon*. Possible transparent pixels of non-32 bpp ARGB formats may be black. If `false`, always returns 32 bpp images with transparency. This parameter is optional.

Default value: `false`.

Return Value

Type: [Bitmap](#)

An [Bitmap](#) instance, which was extracted from the *icon*, or `null` if the specified *index* was too large.

Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Icon](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

See Also

Reference

[IconExtensions Class](#)

[ExtractBitmap Overload](#)

[KGySoft.Drawing Namespace](#)

[IconExtensionsExtractIcon\(Icon, Int32\)](#)

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IconExtensionsExtractBitmap Method (Icon, Size, PixelFormat, Boolean)

Extracts the image of specified size and pixel format from an [Icon](#) instance.

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static Bitmap ExtractBitmap(  
    this Icon icon,  
    Size size,  
    PixelFormat pixelFormat,  
    bool keepOriginalFormat = false  
)
```

Parameters

icon

Type: [System.Drawing.Icon](#)

The icon that may contain multiple images.

size

Type: [System.Drawing.Size](#)

The required icon size to retrieve.

pixelFormat

Type: [System.Drawing.Imaging.PixelFormat](#)

The required pixel format to retrieve

keepOriginalFormat (Optional)

Type: [System.Boolean](#)

If `true`, keeps the original image format stored in the *icon*. Possible transparent pixels of non-32 bpp ARGB formats may be black. If `false`, always returns 32 bpp images with transparency. This parameter is optional.

Default value: `false`.

Return Value

Type: [Bitmap](#)

An [Bitmap](#) instance, which was extracted from the *icon*, or if no icon found with the specified size and format.

Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Icon](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

See Also

Reference

[IconExtensions Class](#)

[ExtractBitmap Overload](#)

[KGySoft.Drawing Namespace](#)

[IconExtensionsExtractIcon\(Icon, Size, PixelFormat\)](#)

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IconExtensionsExtractBitmaps Method

KGy SOFT Drawing
Libraries Help

Overload List

	Name	Description
	ExtractBitmaps(Icon, Boolean)	Extracts every image from an Icon instance.
	ExtractBitmaps(Icon, PixelFormat, Boolean)	Extracts every image of specified pixel format from an Icon instance.
	ExtractBitmaps(Icon, Size, Boolean)	Extracts every image of specified size from an Icon instance.

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See Also

Reference

[IconExtensions Class](#)

[KGySoft.Drawing Namespace](#)

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IconExtensionsExtractBitmaps Method (Icon, Boolean)

KGy SOFT Drawing
Libraries Help

Extracts every image from an [Icon](#) instance.

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static Bitmap[] ExtractBitmaps(  
    this Icon icon,  
    bool keepOriginalFormat = false  
)
```

Parameters

icon

Type: [System.Drawing.Icon](#)

The icon that may contain multiple images.

keepOriginalFormat (Optional)

Type: [System.Boolean](#)

If , keeps the original image format stored in the *icon*. Possible transparent pixels of non-32 bpp ARGB formats may be black. If , always returns 32 bpp images with transparency. This parameter is optional.

Default value: .

Return Value

Type: [Bitmap](#)

An array of [Bitmap](#) instances, which were extracted from the *icon*.

Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Icon](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

See Also

Reference

[IconExtensions Class](#)

[ExtractBitmaps Overload](#)

[KGySoft.Drawing Namespace](#)

[IconExtensionsExtractIcons\(Icon\)](#)

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IconExtensionsExtractBitmaps Method (Icon, PixelFormat, Boolean)

Extracts every image of specified pixel format from an [Icon](#) instance.

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static Bitmap[] ExtractBitmaps(  
    this Icon icon,  
    PixelFormat pixelFormat,  
    bool keepOriginalFormat = false  
)
```

Parameters

icon

Type: [System.Drawing.Icon](#)

The icon that may contain multiple images.

pixelFormat

Type: [System.Drawing.Imaging.PixelFormat](#)

The required pixel format to retrieve

keepOriginalFormat (Optional)

Type: [System.Boolean](#)

If `true`, keeps the original image format stored in the *icon*. Possible transparent pixels of non-32 bpp ARGB formats may be black. If `false`, always returns 32 bpp images with transparency. This parameter is optional.

Default value: `false`.

Return Value

Type: [Bitmap](#)

An array of [Bitmap](#) instances, which were extracted from the *icon*.

Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Icon](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

See Also

Reference

[IconExtensions Class](#)

[ExtractBitmaps Overload](#)

[KGySoft.Drawing Namespace](#)

[IconExtensionsExtractIcons\(Icon, PixelFormat\)](#)

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IconExtensionsExtractBitmaps Method (Icon, Size, Boolean)

KGy SOFT Drawing
Libraries Help

Extracts every image of specified size from an [Icon](#) instance.

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static Bitmap[] ExtractBitmaps(  
    this Icon icon,  
    Size size,  
    bool keepOriginalFormat = false  
)
```

Parameters

icon

Type: [System.Drawing.Icon](#)

The icon that may contain multiple images.

size

Type: [System.Drawing.Size](#)

The required icon size to retrieve.

keepOriginalFormat (Optional)

Type: [System.Boolean](#)

If , keeps the original image format stored in the *icon*. Possible transparent pixels of non-32 bpp ARGB formats may be black. If , always returns 32 bpp images with transparency. This parameter is optional.

Default value: .

Return Value

Type: [Bitmap](#)

An array of [Bitmap](#) instances, which were extracted from the *icon*.

Usage Note

In Visual Basic and C#, you can call this method as an instance method on

any object of type [Icon](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

See Also

Reference

[IconExtensions Class](#)

[ExtractBitmaps Overload](#)

[KGySoft.Drawing Namespace](#)

[IconExtensionsExtractIcons\(Icon, Size\)](#)

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Overload List

	Name	Description
	ExtractIcon(Icon, Size)	Extracts the first icon of specified size from an Icon instance. Unless the Icon constructors, this method works as expected.
	ExtractIcon(Icon, Int32)	Extracts the icon of specified index from an Icon instance.
	ExtractIcon(Icon, Size, PixelFormat)	Extracts the icon of specified size and pixel format from an Icon instance. Unless the Icon constructors, this method works as expected.

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See Also

Reference

[IconExtensions Class](#)

[KGySoft.Drawing Namespace](#)

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IconExtensionsExtractIcon Method (Icon, Size)

KGy SOFT Drawing
Libraries Help

Extracts the first icon of specified size from an [Icon](#) instance. Unless the [Icon](#) constructors, this method works as expected.

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static Icon ExtractIcon(  
    this Icon icon,  
    Size size  
)
```

Parameters

icon

Type: [System.Drawing.Icon](#)

The icon that may contain multiple images.

size

Type: [System.Drawing.Size](#)

The required icon size to retrieve.

Return Value

Type: [Icon](#)

An [Icon](#) instance, which contains only a single image, or if no icon found with the specified size.

Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Icon](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

See Also

Reference

[IconExtensions Class](#)

[ExtractIcon Overload](#)

[KGySoft.Drawing Namespace](#)

[IconExtensionsExtractBitmap\(Icon, Size, Boolean\)](#)

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IconExtensionsExtractIcon Method (Icon, Int32)

KGy SOFT Drawing
Libraries Help

Extracts the icon of specified index from an [Icon](#) instance.

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static Icon ExtractIcon(  
    this Icon icon,  
    int index  
)
```

Parameters

icon

Type: [System.Drawing.Icon](#)

The icon that may contain multiple images.

index

Type: [System.Int32](#)

The zero-based index of the icon image to retrieve.

Return Value

Type: [Icon](#)

An [Icon](#) instance, which contains only a single image, or `null` if the specified *index* was too large.

Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Icon](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

See Also

Reference

[IconExtensions Class](#)

[ExtractIcon Overload](#)

[KGySoft.Drawing Namespace](#)

[IconExtensionsExtractBitmap\(Icon, Int32, Boolean\)](#)

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IconExtensionsExtractIcon Method (Icon, Size, PixelFormat)

KGy SOFT Drawing
Libraries Help

Extracts the icon of specified size and pixel format from an [Icon](#) instance. Unless the [Icon](#) constructors, this method works as expected.

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static Icon ExtractIcon(  
    this Icon icon,  
    Size size,  
    PixelFormat pixelFormat  
)
```

Parameters

icon

Type: [System.Drawing.Icon](#)

The icon that may contain multiple images.

size

Type: [System.Drawing.Size](#)

The required icon size to retrieve.

pixelFormat

Type: [System.Drawing.Imaging.PixelFormat](#)

The required pixel format to retrieve

Return Value

Type: [Icon](#)

An [Icon](#) instance, which contains only a single image, or if no icon found with the specified size and format.

Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Icon](#). When you use instance method syntax to call this

method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

See Also

Reference

[IconExtensions Class](#)

[ExtractIcon Overload](#)

[KGySoft.Drawing Namespace](#)

[IconExtensionsExtractBitmap\(Icon, Size, PixelFormat, Boolean\)](#)

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Overload List

	Name	Description
	ExtractIcons(Icon)	Extracts every icon from an Icon instance as separated instances.
	ExtractIcons(Icon, PixelFormat)	Extracts every icon of specified pixel format from an Icon instance as separated instances.
	ExtractIcons(Icon, Size)	Extracts every icon of specified size from an Icon instance as separated instances.

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See Also

Reference

[IconExtensions Class](#)

[KGySoft.Drawing Namespace](#)

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IconExtensionsExtractIcons Method (Icon)

KGy SOFT Drawing
Libraries Help

Extracts every icon from an [Icon](#) instance as separated instances.

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static Icon[] ExtractIcons(  
    this Icon icon  
)
```

Parameters

icon

Type: [System.Drawing.Icon](#)

The icon that may contain multiple images.

Return Value

Type: [Icon](#)

An array of [Icon](#) instances, which were extracted from the *icon*.

Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Icon](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

See Also

Reference

[IconExtensions Class](#)

[ExtractIcons Overload](#)

[KGySoft.Drawing Namespace](#)

[System.Drawing.Icon](#)

IconExtensionsExtractBitmaps(Icon, Boolean)

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IconExtensionsExtractIcons Method (Icon, PixelFormat)

KGy SOFT Drawing
Libraries Help

Extracts every icon of specified pixel format from an [Icon](#) instance as separated instances.

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static Icon[] ExtractIcons(  
    this Icon icon,  
    PixelFormat pixelFormat  
)
```

Parameters

icon

Type: [System.Drawing.Icon](#)

The icon that may contain multiple images.

pixelFormat

Type: [System.Drawing.Imaging.PixelFormat](#)

The required pixel format to retrieve

Return Value

Type: [Icon](#)

An array of [Icon](#) instances, which were extracted from the *icon*.

Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Icon](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

See Also

Reference

[IconExtensions Class](#)

[ExtractIcons Overload](#)

[KGySoft.Drawing Namespace](#)

[System.DrawingIcon](#)

[IconExtensionsExtractBitmaps\(Icon, PixelFormat, Boolean\)](#)

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IconExtensionsExtractIcons Method (Icon, Size)

KGy SOFT Drawing
Libraries Help

Extracts every icon of specified size from an [Icon](#) instance as separated instances.

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static Icon[] ExtractIcons(  
    this Icon icon,  
    Size size  
)
```

Parameters

icon

Type: [System.Drawing.Icon](#)

The icon that may contain multiple images.

size

Type: [System.Drawing.Size](#)

The required icon size to retrieve.

Return Value

Type: [Icon](#)

An array of [Icon](#) instances, which were extracted from the *icon*.

Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Icon](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

See Also

Reference

IconExtensions Class

ExtractIcons Overload

KGySoft.Drawing Namespace

System.DrawingIcon

IconExtensionsExtractBitmaps(Icon, Size, Boolean)

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IconExtensionsExtractNearestBitmap KGy SOFT Drawing Libraries Help

Method

Extracts the nearest image of specified size and pixel format from an [Icon](#) instance.

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static Bitmap ExtractNearestBitmap(  
    this Icon icon,  
    Size size,  
    PixelFormat pixelFormat,  
    bool keepOriginalFormat = false  
)
```

Parameters

icon

Type: [System.Drawing.Icon](#)

The icon that may contain multiple images.

size

Type: [System.Drawing.Size](#)

The required icon size to retrieve.

pixelFormat

Type: [System.Drawing.Imaging.PixelFormat](#)

The required pixel format to retrieve

keepOriginalFormat (Optional)

Type: [System.Boolean](#)

If , keeps the original image format stored in the *icon*. Possible transparent pixels of non-32 bpp ARGB formats may be black. If , always returns 32 bpp images with transparency. This parameter is optional.

Default value: .

Return Value

Type: [Bitmap](#)

An [Bitmap](#) instance, which was extracted from the *icon*. If no icon was found with the specified size and format the nearest image (*pixelFormat* matches first, then *size*) is returned.

Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Icon](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

See Also

Reference

[IconExtensions Class](#)

[KGySoft.Drawing Namespace](#)

[IconExtensionsExtractNearestIcon\(Icon, Size, PixelFormat\)](#)

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IconExtensionsExtractNearestIcon Method

KGy SOFT Drawing
Libraries Help

Extracts the nearest icon of specified size and pixel format from an [Icon](#) instance. Unless the [Icon](#) constructors, this method works as expected.

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static Icon ExtractNearestIcon(  
    this Icon icon,  
    Size size,  
    PixelFormat pixelFormat  
)
```

Parameters

icon

Type: [System.Drawing.Icon](#)

The icon that may contain multiple images.

size

Type: [System.Drawing.Size](#)

The required icon size to retrieve.

pixelFormat

Type: [System.Drawing.Imaging.PixelFormat](#)

The required pixel format to retrieve

Return Value

Type: [Icon](#)

An [Icon](#) instance, which contains only a single image. If no icon was found with the specified size and format the nearest icon (*pixelFormat* matches first, then *size*) is returned.

Usage Note

In Visual Basic and C#, you can call this method as an instance method on

any object of type [Icon](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

See Also

Reference

[IconExtensions Class](#)

[KGySoft.Drawing Namespace](#)

[IconExtensionsExtractNearestBitmap\(Icon, Size, PixelFormat, Boolean\)](#)

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IconExtensionsGetImagesCount Method

KGy SOFT Drawing
Libraries Help

Gets the number of images in the *icon*.

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static int GetImagesCount(  
    this Icon icon  
)
```

Parameters

icon

Type: [System.Drawing.Icon](#)

The icon to check.

Return Value

Type: [Int32](#)

The number of images in the *icon*.

Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Icon](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

See Also

Reference

[IconExtensions Class](#)

[KGySoft.Drawing Namespace](#)

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IconExtensionsSaveHighQuality Method

KGy SOFT Drawing
Libraries Help

Saves the *icon* into the specified *stream*. Unlike [Icon.Save](#), this method can save every icon with high quality, even [SystemIcons](#) members, and icons created by the [Icon.FromHandle](#) method.

Namespace: [KGySoft.Drawing](#)

Assembly: [KGySoft.Drawing](#) (in [KGySoft.Drawing.dll](#)) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static void SaveHighQuality(  
    this Icon icon,  
    Stream stream  
)
```

Parameters

icon

Type: [System.Drawing.Icon](#)

The icon to save

stream

Type: [System.IO.Stream](#)

A stream into which the icon has to be saved.

Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Icon](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

See Also

Reference

[IconExtensions Class](#)

[KGySoft.Drawing Namespace](#)

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IconExtensionsToAlphaBitmap Method

KGy SOFT Drawing
Libraries Help

Converts the specified *icon* to a [Bitmap](#). While [Icon.ToBitmap](#) may return a wrong result when icon contains semi-transparent pixels, this method returns an image, in which alpha channel is always correctly applied for the image.

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static Bitmap ToAlphaBitmap(  
    this Icon icon  
)
```

Parameters

icon

Type: [System.Drawing.Icon](#)

The icon optionally with transparency.

Return Value

Type: [Bitmap](#)

A [Bitmap](#) that represents the converted [Icon](#).

Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Icon](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

Remarks

[ExtractBitmap](#) and [ToAlphaBitmap\(Icon\)](#) methods may return a different result even if the *icon* contains a single image only. The [ExtractBitmap](#) overloads works from the saved icon stream in the first place, which is slower than this method.

If the *icon* contains multiple images consider to use either the [ExtractBitmap](#) overloads to specify the exact image to return, or the [ToMultiResBitmap](#) method, which returns every images in a single combined [Bitmap](#).

See Also

Reference

[IconExtensions Class](#)

[KGySoft.Drawing Namespace](#)

[IconExtensionsExtractBitmap\(Icon, Boolean\)](#)

[IconExtensionsExtractBitmap\(Icon, Size, PixelFormat, Boolean\)](#)

[IconExtensionsExtractBitmap\(Icon, Int32, Boolean\)](#)

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IconExtensionsToCursorHandle Method

KGy SOFT Drawing
Libraries Help

Converts the provided *icon* to a [CursorHandle](#), which can be passed to the [System.Windows.Forms.Cursor](#) constructor to create a new cursor.

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static CursorHandle ToCursorHandle(  
    this Icon icon,  
    Point cursorHotspot = null  
)
```

Parameters

icon

Type: [System.Drawing.Icon](#)

The [Icon](#), which should be converted to a cursor.

cursorHotspot (Optional)

Type: [System.Drawing.Point](#)

The hotspot coordinates of the cursor. This parameter is optional.

Default value: $\mathbf{0}$; $\mathbf{0}$ (top-left corner)

Return Value

Type: [CursorHandle](#)

A [CursorHandle](#) instance that can be used to create a [System.Windows.Forms.Cursor](#) instance.

Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Icon](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

See Also

Reference

[IconExtensions Class](#)

[KGySoft.Drawing Namespace](#)

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IconExtensionsToMultiResBitmap Method

KGy SOFT Drawing
Libraries Help

Converts the *icon* to a [Bitmap](#) instance, which contains every image of the *icon*. When the returned [Bitmap](#) is used to create another [Bitmap](#) or is drawn into a [Graphics](#), the best-fitting image is automatically applied.

Namespace: [KGySoft.Drawing](#)

Assembly: [KGySoft.Drawing](#) (in [KGySoft.Drawing.dll](#)) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static Bitmap ToMultiResBitmap(  
    this Icon icon  
)
```

Parameters

icon

Type: [System.Drawing.Icon](#)

The icon to convert to a multi-resolution [Bitmap](#).

Return Value

Type: [Bitmap](#)

A [Bitmap](#) instance, which contains every image of the *icon*.

Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Icon](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

See Also

Reference

[IconExtensions Class](#)

[KGySoft.Drawing Namespace](#)

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Provides some icon-related methods as well as properties returning general icons in multi resolution. Unlike [SystemIcons](#), these icons should be disposed when not used any more.

Inheritance Hierarchy

[SystemObject](#) **KGySoft.DrawingIcons**

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static class Icons
```

The **Icons** type exposes the following members.

Methods

	Name	Description
	Combine(Bitmap)	Combines the provided <i>images</i> into a multi-resolution Icon instance.
	Combine(Icon)	Combines the provided <i>icons</i> into a multi-resolution Icon instance.
	Combine(Bitmap, Color)	Combines the provided <i>images</i> into a multi-resolution Icon instance.
	FromExtension	Gets the system-associated icon of a file extension.
	FromFile(String)	Extracts dual-resolution icons from a file and returns them as separated Icon instances.
	FromFile(String, SystemIconSize)	Extracts icons of the specified <i>size</i> from a file and returns them as separated Icon instances.
	GetStockIcon	Tries to get a system stock icon. When there is no icon defined for provided <i>id</i> , or Windows version is below Vista, this method returns <code>.</code> In Windows XP use the predefined property members to retrieve system

icons.

[Top](#)

Properties

	Name	Description
	Application	 Gets the Application icon displaying a window (Sizes: 256x256, 48x48, 32x32, 24x24, 16x16)
	Error	 Gets the Error icon displaying a white "X" in a red circle (Sizes: 256x256, 48x48, 32x32, 24x24, 16x16)
	Information	 Gets the Information icon displaying a white "i" a blue circle (Sizes: 256x256, 48x48, 32x32, 16x16)
	Question	 Gets the Question icon displaying a white "?" in a blue circle (Sizes: 256x256, 64x64, 48x48, 32x32, 16x16)
	SecurityError	 Gets the Security Error icon displaying a red shield with a white "X" (Sizes: 256x256, 48x48, 32x32, 24x24, 16x16)
	SecurityQuestion	 Gets the Security Question icon displaying a blue shield with a white "?" (Sizes: 256x256, 48x48, 32x32, 24x24, 16x16)
	SecurityShield	 Gets the Security Shield icon displaying a blue-yellow shield (Sizes: 256x256, 128x128, 48x48, 32x32, 24x24, 16x16, 8x8)
	SecuritySuccess	 Gets the Security Success icon displaying a green shield with a white check (Sizes: 256x256, 48x48, 32x32, 24x24, 16x16)
	SecurityWarning	 Gets the Security Warning icon displaying a yellow shield with a black "!" (Sizes: 256x256, 48x48, 32x32, 24x24, 16x16)
	Shield	 Gets the Windows Shield icon displaying a red-green-blue-yellow shield (Sizes: 256x256, 128x128, 48x48, 32x32, 24x24, 16x16, 8x8)
	SystemApplication	 Gets an Icon instance that contains a large and a small Application icon as it is stored in the current operating system. In Windows Vista and above sizes are depending on current DPI settings, in Windows XP they have always 32x32 and 16x16 sizes.
	SystemError	 Gets an Icon instance that contains a large and a small Error icon as it is stored in the current operating system. In Windows Vista and above sizes are depending on current DPI settings, in Windows XP they have always 32x32 and 16x16 sizes.
	SystemInformation	 Gets an Icon instance that contains a large and a small Information

		icon as it is stored in the current operating system. In Windows Vista and above sizes are depending on current DPI settings, in Windows XP they have always 32x32 and 16x16 sizes.
	SystemQuestion	 Gets an Icon instance that contains a large and a small Question icon as it is stored in the current operating system. In Windows Vista and above sizes are depending on current DPI settings, in Windows XP they have always 32x32 and 16x16 sizes.
	SystemShield	 Gets an Icon instance that contains the Shield icon as it is stored in the current operating system. In Windows Vista and above icon contains two sizes, which are depending on current DPI settings, in Windows XP the icon contains multiple resolution and color depths.
	SystemWarning	 Gets an Icon instance that contains a large and a small Warning icon as it is stored in the current operating system. In Windows Vista and above sizes are depending on current DPI settings, in Windows XP they have always 32x32 and 16x16 sizes.
	Warning	 Gets the Warning icon displaying a black "!" in a yellow triangle (Sizes: 256x256, 48x48, 32x32, 16x16)

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See Also

Reference

[KGySoft.Drawing Namespace](#)

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The [Icons](#) type exposes the following members.

Methods

	Name	Description
	Combine(Bitmap)	Combines the provided <i>images</i> into a multi-resolution Icon instance.
	Combine(Icon)	Combines the provided <i>icons</i> into a multi-resolution Icon instance.
	Combine(Bitmap, Color)	Combines the provided <i>images</i> into a multi-resolution Icon instance.
	FromExtension	Gets the system-associated icon of a file extension.
	FromFile(String)	Extracts dual-resolution icons from a file and returns them as separated Icon instances.
	FromFile(String, SystemIconSize)	Extracts icons of the specified <i>size</i> from a file and returns them as separated Icon instances.
	GetStockIcon	Tries to get a system stock icon. When there is no icon defined for provided <i>id</i> , or Windows version is below Vista, this method returns <code>.</code> In Windows XP use the predefined property members to retrieve system icons.

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See Also

Reference

[Icons Class](#)

[KGySoft.Drawing Namespace](#)

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Overload List

	Name	Description
	Combine(Bitmap)	Combines the provided <i>images</i> into a multi-resolution Icon instance.
	Combine(Icon)	Combines the provided <i>icons</i> into a multi-resolution Icon instance.
	Combine(Bitmap, Color)	Combines the provided <i>images</i> into a multi-resolution Icon instance.

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See Also

Reference

[Icons Class](#)

[KGySoft.Drawing Namespace](#)

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IconsCombine Method (Bitmap)

Combines the provided *images* into a multi-resolution [Icon](#) instance.

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static Icon Combine(  
    params Bitmap[] images  
)
```

Parameters

images

Type: [System.Drawing.Bitmap](#)

The images to be added to the result icon. Images can be non-squared ones. Transparency is determined automatically by image format.

Return Value

Type: [Icon](#)

An [Icon](#) instance that contains every image of the source *images*.

See Also

Reference

[Icons Class](#)

[Combine Overload](#)

[KGySoft.Drawing Namespace](#)

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IconsCombine Method (Icon)

Combines the provided *icons* into a multi-resolution [Icon](#) instance.

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static Icon Combine(  
    params Icon[] icons  
)
```

Parameters

icons

Type: [System.Drawing.Icon](#)

The icons to be combined.

Return Value

Type: [Icon](#)

An [Icon](#) instance that contains every image of the source *icons*.

Remarks

The elements of *icons* may contain multiple icons.

See Also

Reference

[Icons Class](#)

[Combine Overload](#)

[KGySoft.Drawing Namespace](#)

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IconsCombine Method (Bitmap, Color)

KGy SOFT Drawing
Libraries Help

Combines the provided *images* into a multi-resolution [Icon](#) instance.

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static Icon Combine(  
    Bitmap[] images,  
    Color[] transparentColors  
)
```

Parameters

images

Type: [System.Drawing.Bitmap](#)

The images to be added to the icon. Images can be non-squares ones.

transparentColors

Type: [System.Drawing.Color](#)

An array of transparent colors of the images. The array must have as many elements as *images*.

Return Value

Type: [Icon](#)

An [Icon](#) instance that contains every image of the source *images*.

See Also

Reference

[Icons Class](#)

[Combine Overload](#)

[KGySoft.Drawing Namespace](#)

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[Docs page.](#)

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IconsFromExtension Method

Gets the system-associated icon of a file extension.

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static Icon FromExtension(  
    string extension,  
    SystemIconSize size  
)
```

Parameters

extension

Type: [SystemString](#)

A file name (can be a non-existing one) or an extension for which the associated icon is about to be retrieved.

size

Type: [KGySoft.DrawingSystemIconSize](#)

The size of the icon to be retrieved.

Return Value

Type: [Icon](#)

The icon of the specified extension.

See Also

Reference

[Icons Class](#)

[KGySoft.Drawing Namespace](#)

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Overload List

	Name	Description
	FromFile(String)	Extracts dual-resolution icons from a file and returns them as separated Icon instances.
	FromFile(String, SystemIconSize)	Extracts icons of the specified <i>size</i> from a file and returns them as separated Icon instances.

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See Also

Reference

[Icons Class](#)

[KGySoft.Drawing Namespace](#)

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IconsFromFile Method (String)

Extracts dual-resolution icons from a file and returns them as separated [Icon](#) instances.

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static Icon[] FromFile(  
    string fileName  
)
```

Parameters

fileName

Type: [SystemString](#)

The name of the file. Can be an executable file, a .dll or icon file.

Return Value

Type: [Icon](#)

The icons of the specified file, or an empty array if the file does not exist or does not contain any icons.

Remarks

If *fileName* refers to an icon file use the [Icon\(String\)](#) constructor instead.

The images of an [Icon](#) can be extracted by the [IconExtensions.ExtractBitmaps](#) methods.

See Also

Reference

[Icons Class](#)

FromFile Overload

KGySoft.Drawing Namespace

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IconsFromFile Method (String, SystemIconSize)

KGy SOFT Drawing
Libraries Help

Extracts icons of the specified *size* from a file and returns them as separated [Icon](#) instances.

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static Icon[] FromFile(  
    string fileName,  
    SystemIconSize size  
)
```

Parameters

fileName

Type: [SystemString](#)

The name of the file. Can be an executable file, a .dll or icon file.

size

Type: [KGySoft.DrawingSystemIconSize](#)

The size of the icons to be extracted.

Return Value

Type: [Icon](#)

The icons of the specified file, or an empty array if the file does not exist or does not contain any icons.

Remarks

If *fileName* refers to an icon file use the [Icon\(String\)](#) constructor instead.

The images of an [Icon](#) can be extracted by the [IconExtensions.ExtractBitmaps](#) methods.

See Also

Reference

[Icons Class](#)

[FromFile Overload](#)

[KGySoft.Drawing Namespace](#)

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IconsGetStockIcon Method KGy SOFT Drawing Libraries Help

Tries to get a system stock icon. When there is no icon defined for provided *id*, or Windows version is below Vista, this method returns `.Icon`. In Windows XP use the predefined property members to retrieve system icons.

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static Icon GetStockIcon(  
    StockIcon id  
)
```

Parameters

id

Type: [KGySoft.DrawingStockIcon](#)

Id of the icon to retrieve. For future compatibility reasons non-defined [StockIcon](#) values are also allowed.

Return Value

Type: [Icon](#)

An [Icon](#) instance containing a small and large icon when an icon belongs to *id*, or `.Icon`, when no icon found or Windows version is below Vista.

See Also

Reference

[Icons Class](#)

[KGySoft.Drawing Namespace](#)

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The [Icons](#) type exposes the following members.

Properties

	Name	Description
	Application	 Gets the Application icon displaying a window (Sizes: 256x256, 48x48, 32x32, 24x24, 16x16)
	Error	 Gets the Error icon displaying a white "X" in a red circle (Sizes: 256x256, 48x48, 32x32, 24x24, 16x16)
	Information	 Gets the Information icon displaying a white "i" a blue circle (Sizes: 256x256, 48x48, 32x32, 16x16)
	Question	 Gets the Question icon displaying a white "?" in a blue circle (Sizes: 256x256, 64x64, 48x48, 32x32, 16x16)
	SecurityError	 Gets the Security Error icon displaying a red shield with a white "X" (Sizes: 256x256, 48x48, 32x32, 24x24, 16x16)
	SecurityQuestion	 Gets the Security Question icon displaying a blue shield with a white "?" (Sizes: 256x256, 48x48, 32x32, 24x24, 16x16)
	SecurityShield	 Gets the Security Shield icon displaying a blue-yellow shield (Sizes: 256x256, 128x128, 48x48, 32x32, 24x24, 16x16, 8x8)
	SecuritySuccess	 Gets the Security Success icon displaying a green shield with a white check (Sizes: 256x256, 48x48, 32x32, 24x24, 16x16)
	SecurityWarning	 Gets the Security Warning icon displaying a yellow shield with a black "!" (Sizes: 256x256, 48x48, 32x32, 24x24, 16x16)
	Shield	 Gets the Windows Shield icon displaying a red-green-blue-yellow shield (Sizes: 256x256, 128x128, 48x48, 32x32, 24x24, 16x16, 8x8)
	SystemApplication	 Gets an Icon instance that contains a large and a small Application icon as it is stored in the current operating system. In Windows Vista and above sizes are depending on current DPI settings, in Windows XP they have always 32x32 and 16x16 sizes.

	SystemError	 Gets an Icon instance that contains a large and a small Error icon as it is stored in the current operating system. In Windows Vista and above sizes are depending on current DPI settings, in Windows XP they have always 32x32 and 16x16 sizes.
	SystemInformation	 Gets an Icon instance that contains a large and a small Information icon as it is stored in the current operating system. In Windows Vista and above sizes are depending on current DPI settings, in Windows XP they have always 32x32 and 16x16 sizes.
	SystemQuestion	 Gets an Icon instance that contains a large and a small Question icon as it is stored in the current operating system. In Windows Vista and above sizes are depending on current DPI settings, in Windows XP they have always 32x32 and 16x16 sizes.
	SystemShield	 Gets an Icon instance that contains the Shield icon as it is stored in the current operating system. In Windows Vista and above icon contains two sizes, which are depending on current DPI settings, in Windows XP the icon contains multiple resolution and color depths.
	SystemWarning	 Gets an Icon instance that contains a large and a small Warning icon as it is stored in the current operating system. In Windows Vista and above sizes are depending on current DPI settings, in Windows XP they have always 32x32 and 16x16 sizes.
	Warning	 Gets the Warning icon displaying a black "!" in a yellow triangle (Sizes: 256x256, 48x48, 32x32, 16x16)

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See Also

Reference

[Icons Class](#)

[KGySoft.Drawing Namespace](#)

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IconsApplication Property KGy SOFT Drawing Libraries Help

 Gets the Application icon displaying a window (Sizes: 256x256, 48x48, 32x32, 24x24, 16x16)

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static Icon Application { get; }
```

Property Value

Type: [Icon](#)

Remarks

The icon contains the following images:



See Also

Reference

[Icons Class](#)

[KGySoft.Drawing Namespace](#)

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IconsError Property

KGy SOFT Drawing Libraries Help

 Gets the Error icon displaying a white "X" in a red circle (Sizes: 256x256, 48x48, 32x32, 24x24, 16x16)

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static Icon Error { get; }
```

Property Value

Type: [Icon](#)

Remarks

The icon contains the following images:



See Also

Reference

[Icons Class](#)

[KGySoft.Drawing Namespace](#)

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IconsInformation Property KGy SOFT Drawing Libraries Help

 Gets the Information icon displaying a white "i" a blue circle (Sizes: 256x256, 48x48, 32x32, 16x16)

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static Icon Information { get; }
```

Property Value

Type: [Icon](#)

Remarks

The icon contains the following images:



See Also

Reference

[Icons Class](#)

[KGySoft.Drawing Namespace](#)

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IconsQuestion Property

KGy SOFT Drawing Libraries Help

 Gets the Question icon displaying a white "?" in a blue circle (Sizes: 256x256, 64x64, 48x48, 32x32, 16x16)

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static Icon Question { get; }
```

Property Value

Type: [Icon](#)

Remarks

The icon contains the following images:



See Also

Reference

[Icons Class](#)

[KGySoft.Drawing Namespace](#)

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IconsSecurityError Property

 Gets the Security Error icon displaying a red shield with a white "X"
(Sizes: 256x256, 48x48, 32x32, 24x24, 16x16)

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static Icon SecurityError { get; }
```

Property Value

Type: [Icon](#)

Remarks

The icon contains the following images:



See Also

Reference

[Icons Class](#)

KGySoft.Drawing Namespace

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IconsSecurityQuestion Property

 Gets the Security Question icon displaying a blue shield with a white "?"
(Sizes: 256x256, 48x48, 32x32, 24x24, 16x16)

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static Icon SecurityQuestion { get; }
```

Property Value

Type: [Icon](#)

Remarks

The icon contains the following images:



See Also

Reference

[Icons Class](#)

KGySoft.Drawing Namespace

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IconsSecurityShield Property

 Gets the Security Shield icon displaying a blue-yellow shield (Sizes: 256x256, 128x128, 48x48, 32x32, 24x24, 16x16, 8x8)

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static Icon SecurityShield { get; }
```

Property Value

Type: [Icon](#)

Remarks

The icon contains the following images:



See Also

Reference

[Icons Class](#)

KGySoft.Drawing Namespace

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IconsSecuritySuccess Property

 Gets the Security Success icon displaying a green shield with a white check (Sizes: 256x256, 48x48, 32x32, 24x24, 16x16)

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static Icon SecuritySuccess { get; }
```

Property Value

Type: [Icon](#)

Remarks

The icon contains the following images:



See Also

Reference

[Icons Class](#)

KGySoft.Drawing Namespace

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IconsSecurityWarning Property

 Gets the Security Warning icon displaying a yellow shield with a black "!"
(Sizes: 256x256, 48x48, 32x32, 24x24, 16x16)

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static Icon SecurityWarning { get; }
```

Property Value

Type: [Icon](#)

Remarks

The icon contains the following images:



See Also

Reference

[Icons Class](#)

KGySoft.Drawing Namespace

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IconsShield Property

KGy SOFT Drawing Libraries Help

 Gets the Windows Shield icon displaying a red-green-blue-yellow shield (Sizes: 256x256, 128x128, 48x48, 32x32, 24x24, 16x16, 8x8)

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static Icon Shield { get; }
```

Property Value

Type: [Icon](#)

Remarks

The icon contains the following images:



See Also

Reference

[Icons Class](#)

[KGySoft.Drawing Namespace](#)

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IconsSystemApplication Property

 Gets an [Icon](#) instance that contains a large and a small Application icon as it is stored in the current operating system. In Windows Vista and above sizes are depending on current DPI settings, in Windows XP they have always 32x32 and 16x16 sizes.

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static Icon SystemApplication { get; }
```

Property Value

Type: [Icon](#)

Remarks

In Windows Vista and Windows 7, with default DPI settings the icon contains the following images:



In Windows XP the icon contains the following images:



See Also

Reference

[Icons Class](#)

[KGySoft.Drawing Namespace](#)

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IconsSystemError Property KGy SOFT Drawing Libraries Help

✖ Gets an [Icon](#) instance that contains a large and a small Error icon as it is stored in the current operating system. In Windows Vista and above sizes are depending on current DPI settings, in Windows XP they have always 32x32 and 16x16 sizes.

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static Icon SystemError { get; }
```

Property Value

Type: [Icon](#)

Remarks

In Windows Vista and Windows 7, with default DPI settings the icon contains the following images:



In Windows XP the icon contains the following images:



See Also

Reference

[Icons Class](#)

[KGySoft.Drawing Namespace](#)

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IconsSystemInformation Property

 Gets an [Icon](#) instance that contains a large and a small Information icon as it is stored in the current operating system. In Windows Vista and above sizes are depending on current DPI settings, in Windows XP they have always 32x32 and 16x16 sizes.

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static Icon SystemInformation { get; }
```

Property Value

Type: [Icon](#)

Remarks

In Windows Vista and Windows 7, with default DPI settings the icon contains the following images:



In Windows XP the icon contains the following images:



See Also

Reference

[Icons Class](#)

[KGySoft.Drawing Namespace](#)

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IconsSystemQuestion Property

 Gets an [Icon](#) instance that contains a large and a small Question icon as it is stored in the current operating system. In Windows Vista and above sizes are depending on current DPI settings, in Windows XP they have always 32x32 and 16x16 sizes.

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static Icon SystemQuestion { get; }
```

Property Value

Type: [Icon](#)

Remarks

In Windows Vista and Windows 7, with default DPI settings the icon contains the following images:



In Windows XP the icon contains the following images:



See Also

Reference

[Icons Class](#)

[KGySoft.Drawing Namespace](#)

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IconsSystemShield Property

KGy SOFT Drawing Libraries Help

 Gets an [Icon](#) instance that contains the Shield icon as it is stored in the current operating system. In Windows Vista and above icon contains two sizes, which are depending on current DPI settings, in Windows XP the icon contains multiple resolution and color depths.

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static Icon SystemShield { get; }
```

Property Value

Type: [Icon](#)

Remarks

In Windows 7, with default DPI settings the icon contains the following images:



In Windows Vista, with default DPI settings the icon contains the following images:



In Windows XP the icon contains different color depth version of the following images:



See Also

Reference

[Icons Class](#)

[KGySoft.Drawing Namespace](#)

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IconsSystemWarning Property

 Gets an [Icon](#) instance that contains a large and a small Warning icon as it is stored in the current operating system. In Windows Vista and above sizes are depending on current DPI settings, in Windows XP they have always 32x32 and 16x16 sizes.

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static Icon SystemWarning { get; }
```

Property Value

Type: [Icon](#)

Remarks

In Windows Vista and Windows 7, with default DPI settings the icon contains the following images:



In Windows XP the icon contains the following images:



See Also

Reference

[Icons Class](#)

[KGySoft.Drawing Namespace](#)

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IconsWarning Property

KGy SOFT Drawing Libraries Help

 Gets the Warning icon displaying a black "!" in a yellow triangle (Sizes: 256x256, 48x48, 32x32, 16x16)

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static Icon Warning { get; }
```

Property Value

Type: [Icon](#)

Remarks

The icon contains the following images:



See Also

Reference

[Icons Class](#)

[KGySoft.Drawing Namespace](#)

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Contains extension methods for the [Image](#) type.

Inheritance Hierarchy

[SystemObject](#) **KGySoft.DrawingImageExtensions**

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static class ImageExtensions
```

The **ImageExtensions** type exposes the following members.

Methods

	Name	Description
	ConvertPixelFormat	Converts the image to another one with the desired PixelFormat . See the Remarks section for details.
	EqualsByContent	Compares an image to another one by content and returns whether they are equal. Images of different size or pixel format are considered as difference.
	GetBitsPerPixel	Gets the bits per pixel (bpp) value of the image.
	SaveAsGif(Image, Stream, Boolean)	Saves the specified <i>image</i> as a GIF image. See the Remarks section for the differences compared to the Image.Save(Stream, ImageFormat) method.
	SaveAsGif(Image, Stream, Color)	Saves the specified <i>image</i> as a GIF image. See the Remarks section for the differences compared to the Image.Save(Stream, ImageFormat) method.
	SaveAsMultipageTiff	Saves the provided <i>images</i> as a multi-page TIFF into the specified Stream . When Image instances in <i>images</i> contain already multiple pages, only the current page is taken.

 ToGrayscale	Converts an image to a grayscale one.
 ToIcon	Creates an Icon from an Image .

[Top](#)

See Also

Reference

[KGySoft.Drawing Namespace](#)

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The [ImageExtensions](#) type exposes the following members.

Methods

	Name	Description
	ConvertPixelFormat	Converts the image to another one with the desired PixelFormat . See the Remarks section for details.
	EqualsByContent	Compares an image to another one by content and returns whether they are equal. Images of different size or pixel format are considered as difference.
	GetBitsPerPixel	Gets the bits per pixel (bpp) value of the image.
	SaveAsGif(Image, Stream, Boolean)	Saves the specified <i>image</i> as a GIF image. See the Remarks section for the differences compared to the Image.Save(Stream,ImageFormat) method.
	SaveAsGif(Image, Stream, Color)	Saves the specified <i>image</i> as a GIF image. See the Remarks section for the differences compared to the Image.Save(Stream,ImageFormat) method.
	SaveAsMultipageTiff	Saves the provided <i>images</i> as a multi-page TIFF into the specified Stream . When Image instances in <i>images</i> contain already multiple pages, only the current page is taken.
	ToGrayscale	Converts an image to a grayscale one.
	ToIcon	Creates an Icon from an Image .

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See Also

Reference

[ImageExtensions Class](#)

[KGySoft.Drawing Namespace](#)

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ImageExtensionsConvertPixelFormat KGy SOFT Drawing Libraries Help Method

Converts the image to another one with the desired [PixelFormat](#).
See the **Remarks** section for details.

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static Image ConvertPixelFormat(  
    this Image image,  
    PixelFormat newPixelFormat,  
    Color[] palette  
)
```

Parameters

image

Type: [System.DrawingImage](#)

The original image to convert.

newPixelFormat

Type: [System.Drawing.ImagingPixelFormat](#)

The desired new pixel format. If the requested format is an indexed one, built-in strategies are used for the generated palette.

palette

Type: [System.DrawingColor](#)

The required palette for the result image. If , the palette will be taken from source or will be generated on demand. If palette contains transparent color, it might be considered. If it contains too few elements black entries will be added.

Return Value

Type: [Image](#)

A new [Image](#) instance with the desired pixel format.

Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Image](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

Remarks

If *newPixelFormat* is [Format8bppIndexed](#), *image* has no palette and *palette* is , a standard palette will be used. Transparency will be preserved.

If *newPixelFormat* is [Format4bppIndexed](#), *image* has no palette and *palette* is , the standard 16 color palette will be used.

If *newPixelFormat* is [Format1bppIndexed](#), *image* has no palette and *palette* is , black and white colors will be used.

If the target pixel format is indexed, *palette* contains the transparent color ([Color.Transparent](#)), and the source has transparency, then the result will have transparency for fully transparent pixels.

See Also

Reference

[ImageExtensions Class](#)

[KGySoft.Drawing Namespace](#)

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ImageExtensionsEqualsByContent Method

KGy SOFT Drawing
Libraries Help

Compares an image to another one by content and returns whether they are equal. Images of different size or pixel format are considered as difference.

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static bool EqualsByContent(  
    this Image image1,  
    Image image2  
)
```

Parameters

image1

Type: [System.DrawingImage](#)
First image instance.

image2

Type: [System.DrawingImage](#)
Second image instance.

Return Value

Type: [Boolean](#)

if both images have the same content; otherwise, .

Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Image](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

Remarks

If an image is not a [Bitmap](#) instance, a temporary [Bitmap](#) is created for the

check.

 **Note**

This method compares images by raw content. If the images have padding in each stride (content row), padding content is considered as well.

See Also

Reference

[ImageExtensions Class](#)

[KGySoft.Drawing Namespace](#)

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ImageExtensionsGetBitsPerPixel Method

KGy SOFT Drawing
Libraries Help

Gets the bits per pixel (bpp) value of the image.

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static int GetBitsPerPixel(  
    this Image image  
)
```

Parameters

image

Type: [System.DrawingImage](#)

The image to obtain the bits-per-pixel value from.

Return Value

Type: [Int32](#)

The bits per pixel (bpp) value of the image.

Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Image](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

See Also

Reference

[ImageExtensions Class](#)

[KGySoft.Drawing Namespace](#)

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Overload List

	Name	Description
	SaveAsGif(Image, Stream, Boolean)	Saves the specified <i>image</i> as a GIF image. See the Remarks section for the differences compared to the Image.Save(Stream, ImageFormat) method.
	SaveAsGif(Image, Stream, Color)	Saves the specified <i>image</i> as a GIF image. See the Remarks section for the differences compared to the Image.Save(Stream, ImageFormat) method.

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See Also

Reference

[ImageExtensions Class](#)

[KGySoft.Drawing Namespace](#)

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ImageExtensionsSaveAsGif Method (Image, Stream, Boolean)

KGy SOFT Drawing
Libraries Help

Saves the specified *image* as a GIF image.
See the **Remarks** section for the differences compared to the [Image.Save\(Stream,ImageFormat\)](#) method.

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static void SaveAsGif(  
    this Image image,  
    Stream stream,  
    bool allowDithering = false  
)
```

Parameters

image

Type: [System.DrawingImage](#)

The image to save. If image contains multiple images other than animated GIF frames, then only the current image will be saved.

stream

Type: [System.IOStream](#)

The stream to save the image into.

allowDithering (Optional)

Type: [SystemBoolean](#)

to allow dithering high color images using a fix palette; otherwise, . This parameter is optional.

Default value: .

Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Image](#). When you use instance method syntax to call this

method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

Remarks

When an image is saved by the [Image.Save\(Stream,ImageFormat\)](#) method using the GIF image format, then the original palette of an indexed source image and transparency can be lost in many cases. Unless the source image is already a 8 bpp one, the built-in encoder will use a fixed palette and dithers the image, while transparency will be lost.

This method preserves transparency of fully transparent pixels even if *allowDithering* is .

See Also

Reference

[ImageExtensions Class](#)

[SaveAsGif Overload](#)

[KGySoft.Drawing Namespace](#)

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ImageExtensionsSaveAsGif Method (Image, Stream, Color)

KGy SOFT Drawing
Libraries Help

Saves the specified *image* as a GIF image.
See the **Remarks** section for the differences compared to the [Image.Save\(Stream,ImageFormat\)](#) method.

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static void SaveAsGif(  
    this Image image,  
    Stream stream,  
    Color[] palette  
)
```

Parameters

image

Type: [System.DrawingImage](#)

The image to save. If image contains multiple images or frames, then the current image will be saved. Animated GIF can be saved only if *palette* is .

stream

Type: [System.IOStream](#)

The stream to save the image into.

palette

Type: [System.DrawingColor](#)

The desired custom palette to use. If , and a palette cannot be taken from the source image, then a default palette will be used.

Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Image](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension](#)

[Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

Remarks

When an image is saved by the [Image.Save\(Stream,ImageFormat\)](#) method using the GIF image format, then the original palette of an indexed source image and transparency can be lost in many cases. Unless the source image is already a 8 bpp one, the built-in encoder will use a fixed palette and dithers the image, while transparency will be lost.

This method preserves transparency of fully transparent pixels unless *palette* is specified and does not contain the transparent color.

See Also

Reference

[ImageExtensions Class](#)

[SaveAsGif Overload](#)

[KGySoft.Drawing Namespace](#)

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ImageExtensionsSaveAsMultipageTiff Method

Saves the provided *images* as a multi-page TIFF into the specified [Stream](#). When [Image](#) instances in *images* contain already multiple pages, only the current page is taken.

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static void SaveAsMultipageTiff(  
    this IEnumerable<Image> images,  
    Stream stream  
)
```

Parameters

images

Type: [System.Collections.Generic.IEnumerableImage](#)

The images to save into the TIFF data stream.

stream

Type: [System.IOStream](#)

The stream into the TIFF data is to be saved.

Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [IEnumerableImage](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

Remarks

When *images* contain multi-page instances, this method takes only the current page. You can extract images by [ExtractBitmaps](#) extension method.

Compression mode and bit depth is chosen for each page based on pixel format.

See Also

Reference

[ImageExtensions Class](#)

[KGySoft.Drawing Namespace](#)

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ImageExtensionsToGrayscale Method

KGy SOFT Drawing
Libraries Help

Converts an image to a grayscale one.

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static Image ToGrayscale(  
    this Image image  
)
```

Parameters

image

Type: [System.DrawingImage](#)

The image to convert to grayscale.

Return Value

Type: [Image](#)

The grayscale version of the original *image*.

Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Image](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

See Also

Reference

[ImageExtensions Class](#)

[KGySoft.Drawing Namespace](#)

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ImageExtensionsToIcon Method

Creates an [Icon](#) from an [Image](#).

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static Icon ToIcon(  
    this Image image,  
    int size,  
    bool keepAspectRatio  
)
```

Parameters

image

Type: [System.DrawingImage](#)

The image to be converted to an icon.

size

Type: [SystemInt32](#)

The required size of the icon.

keepAspectRatio

Type: [SystemBoolean](#)

When source *image* is not square sized, determines whether the image should keep aspect ratio.

Return Value

Type: [Icon](#)

An [Icon](#) instance created from the *image*.

Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Image](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension](#)

[Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

Remarks

The result icon will be always square sized. To create a non-squared icon, use the [Icons.Combine](#) method instead.

See Also

Reference

[ImageExtensions Class](#)

[KGySoft.Drawing Namespace](#)

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MetafileExtensions Class KGy SOFT Drawing Libraries Help

Contains extension methods for the [Metafile](#) type.

Inheritance Hierarchy

[SystemObject](#) **KGySoft.DrawingMetafileExtensions**

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static class MetafileExtensions
```

The **MetafileExtensions** type exposes the following members.

Methods

	Name	Description
	Save(Metafile, Stream)	Saves a Metafile instance into a Stream . Actual format is selected by the raw format of the metafile.
	Save(Metafile, Stream, Boolean)	Saves a Metafile instance into a Stream using the required format.
	ToBitmap	Creates a Bitmap of a Metafile instance provided in the <i>metafile</i> parameter.

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See Also

Reference

[KGySoft.Drawing Namespace](#)

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The [MetafileExtensions](#) type exposes the following members.

Methods

	Name	Description
	Save(Metafile, Stream)	Saves a Metafile instance into a Stream . Actual format is selected by the raw format of the metafile.
	Save(Metafile, Stream, Boolean)	Saves a Metafile instance into a Stream using the required format.
	ToBitmap	Creates a Bitmap of a Metafile instance provided in the <i>metafile</i> parameter.

[Top](#)

See Also

Reference

[MetafileExtensions Class](#)

[KGySoft.Drawing Namespace](#)

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Overload List

	Name	Description
	Save(Metafile, Stream)	Saves a Metafile instance into a Stream . Actual format is selected by the raw format of the metafile.
	Save(Metafile, Stream, Boolean)	Saves a Metafile instance into a Stream using the required format.

[Top](#)

See Also

Reference

[MetafileExtensions Class](#)

[KGySoft.Drawing Namespace](#)

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MetafileExtensionsSave Method (Metafile, Stream)

KGy SOFT Drawing
Libraries Help

Saves a [Metafile](#) instance into a [Stream](#). Actual format is selected by the raw format of the metafile.

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static void Save(  
    this Metafile metafile,  
    Stream stream  
)
```

Parameters

metafile

Type: [System.Drawing.Imaging.Metafile](#)

The [Metafile](#) instance to save.

stream

Type: [System.IO.Stream](#)

The [Stream](#) into the metafile should be saved.

Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Metafile](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

See Also

Reference

[MetafileExtensions Class](#)

[Save Overload](#)

KGySoft.Drawing Namespace

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MetafileExtensionsSave Method (Metafile, Stream, Boolean)

KGy SOFT Drawing
Libraries Help

Saves a [Metafile](#) instance into a [Stream](#) using the required format.

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static void Save(  
    this Metafile metafile,  
    Stream stream,  
    bool forceWmfFormat  
)
```

Parameters

metafile

Type: [System.Drawing.Imaging.Metafile](#)

The [Metafile](#) instance to save.

stream

Type: [System.IOStream](#)

The [Stream](#) into the metafile should be saved.

forceWmfFormat

Type: [SystemBoolean](#)

When `,` forces to use the Windows Metafile Format (WMF), even if the *metafile* itself is encoded by Enhanced Metafile Format (EMF). When `,` uses the appropriate format automatically.

Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Metafile](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

See Also

Reference

[MetafileExtensions Class](#)

[Save Overload](#)

[KGySoft.Drawing Namespace](#)

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Creates a [Bitmap](#) of a [Metafile](#) instance provided in the *metafile* parameter.

Namespace: [KGySoft.Drawing](#)

Assembly: [KGySoft.Drawing](#) (in [KGySoft.Drawing.dll](#)) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public static Bitmap ToBitmap(  
    this Metafile metafile,  
    Size requestedSize,  
    bool antiAliased = false  
)
```

Parameters

metafile

Type: [System.Drawing.Imaging.Metafile](#)

The [Metafile](#) to convert.

requestedSize

Type: [System.Drawing.Size](#)

The requested size of the result [Bitmap](#).

antiAliased (Optional)

Type: [System.Boolean](#)

to create an anti-aliased result; otherwise, .

Default value: .

Return Value

Type: [Bitmap](#)

A [Bitmap](#) instance of the requested size.

Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Metafile](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension](#)

[Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

See Also

Reference

[MetafileExtensions Class](#)

[KGySoft.Drawing Namespace](#)

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Represents the Windows stock icons can be retrieved by the [Icons.GetStockIcon](#) method in Windows Vista and above.

See also the [SHSTOCKICONID Enumeration](#) at the Microsoft Docs site.

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public enum StockIcon
```

Members

	Member name	Value	Description
	DocNoAssoc	0	Document of a type with no associated application.
	DocAssoc	1	Document of a type with an associated application.
	Application	2	Generic application with no custom icon.
	Folder	3	Folder (generic, unspecified state).
	FolderOpen	4	Folder (open).
	Drive525	5	5.25-inch disk drive.
	Drive35	6	3.5-inch disk drive.
	DriveRemove	7	Removable drive.
	DriveFixed	8	Fixed drive (hard disk).
	DriveNet	9	Network drive (connected).
	DriveNetDisabled	10	Network drive (disconnected).
	DriveCD	11	CD drive.
	DriveRam	12	RAM disk drive.
	World	13	The entire network.

Server	15	A computer on the network.
Printer	16	A local printer or print destination.
MyNetwork	17	The Network virtual folder
Find	22	The Search feature.
Help	23	The Help and Support feature.
Share	28	Overlay for a shared item.
Link	29	Overlay for a shortcut.
SlowFile	30	Overlay for items that are expected to be slow to access.
Recycler	31	The Recycle Bin (empty).
RecyclerFull	32	The Recycle Bin (not empty).
MediaCDAudio	40	Audio CD media.
Lock	47	Security lock.
AutoList	49	A virtual folder that contains the results of a search.
PrinterNet	50	A network printer.
ServerShare	51	A server shared on a network.
PrinterFax	52	A local fax printer.
PrinterFaxNet	53	A network fax printer.
PrinterFile	54	A file that receives the output of a Print to file operation.
Stack	55	A category that results from a Stack by command to organize the contents of a folder.
MediaSvcd	56	Super Video CD (SVCD) media.
StuffedFolder	57	A folder that contains only subfolders as child items.
DriveUnknown	58	Unknown drive type.
DriveDvd	59	DVD drive.
MediaDvd	60	DVD media.
MediaDvdRam	61	DVD-RAM media.
MediaDvdRW	62	DVD-RW media.
MediaDvdR	63	DVD-R media.
MediaDvdRom	64	DVD-ROM media.
MediaCDAudioPlus	65	CD+ (enhanced audio CD) media.
MediaCDRW	66	CD-RW media.

MediaCDR	67	CD-R media.
MediaCDBurn	68	A writeable CD in the process of being burned.
MediaBlankCD	69	Blank writable CD media.
MediaCDRom	70	CD-ROM media.
AudioFiles	71	An audio file.
ImageFiles	72	An image file.
VideoFiles	73	A video file.
MixedFiles	74	A mixed file.
FolderBack	75	Folder back.
FolderFront	76	Folder front.
Shield	77	Security shield. Use for UAC prompts only.
Warning	78	The warning icon.
Information	79	The information icon.
Error	80	The error icon.
Key	81	Key.
Software	82	Software.
Rename	83	A UI item, such as a button, that issues a rename command.
Delete	84	A UI item, such as a button, that issues a delete command.
MediaAudioDvd	85	Audio DVD media.
MediamMoieDvd	86	Movie DVD media.
MediaEnhancedCD	87	Enhanced CD media.
MediaEnhancedDvd	88	Enhanced DVD media.
MediaHDDvd	89	High definition DVD media in the HD DVD format.
MediaBluray	90	High definition DVD media in the Blu-ray Disc™ format.
MediaVcd	91	Video CD (VCD) media.
MediaDvdPlusR	92	DVD+R media.
MediaDvdPlusRW	93	DVD+RW media.
DesktopPC	94	A desktop computer.
MobilePC	95	A mobile computer (laptop).
Users	96	The User Accounts Control Panel item.

MediaSmartMedia	97	Smart media.
MediaCompactFlash	98	CompactFlash media.
DeviceCellphone	99	A cell phone.
DeviceCamera	100	A digital camera.
DeviceVideoCamera	101	A digital video camera.
DeviceAudioPlayer	102	An audio player.
NetworkConnect	103	Connect to network.
Internet	104	The Network and Internet Control Panel item.
ZipFile	105	A compressed file with a .zip file name extension.
Settings	106	The Additional Options Control Panel item.
DriveHDDvd	132	Windows Vista with Service Pack 1 (SP1) and later. High definition DVD drive (any type - HD DVD-ROM, HD DVD-R, HD-DVD-RAM) that uses the HD DVD format.
DriveBD	133	Windows Vista with SP1 and later. High definition DVD drive (any type - BD-ROM, BD-R, BD-RE) that uses the Blu-ray Disc format.
MediaHDDvdRom	134	Windows Vista with SP1 and later. High definition DVD-ROM media in the HD DVD-ROM format.
MediaHDDvdR	135	Windows Vista with SP1 and later. High definition DVD-R media in the HD DVD-R format.
MediaHDDvdRam	136	Windows Vista with SP1 and later. High definition DVD-RAM media in the HD DVD-RAM format.
MediaBDRom	137	Windows Vista with SP1 and later. High definition DVD-ROM media in the Blu-ray Disc BD-ROM format.
MediaBDR	138	Windows Vista with SP1 and later. High definition write-once media in the Blu-ray Disc BD-R format.
MediaBDRE	139	Windows Vista with SP1 and later. High definition read/write media in the Blu-ray Disc BD-RE format.
ClusteredDrive	140	Windows Vista with SP1 and later. A cluster disk array.

See Also

Reference

[KGySoft.Drawing Namespace](#)

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SystemIconSize Enumeration

Represents the predefined system icon sizes.

Namespace: [KGySoft.Drawing](#)

Assembly: KGySoft.Drawing (in KGySoft.Drawing.dll) Version: 4.6.0

Syntax

[C#](#) | [VB](#) | [C++](#) | [F#](#)

[Copy](#)

```
public enum SystemIconSize
```

Members

	Member name	Value	Description
	Large	0	Represents the larger version of an icon. With 100% scale settings (96 DPI) this usually means the 32x32 system icon size.
	Small	1	Represents the smaller version of an icon. With 100% scale settings (96 DPI) this usually means the 16x16 system icon size.

See Also

Reference

[KGySoft.Drawing Namespace](#)

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