

MBS REALbasic ImageMagick Plugin Documentation

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0.1 Introduction

This is the PDF version of the documentation for the REALbasic Plug-in from Monkeybread Software Germany. Plugin part: MBS REALbasic ImageMagick Plugin

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Chapter 2

Image Magick

2.1 class IMMagickInfoMBS

class IMMagickInfoMBS

class, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: A class for information about a file import/export format Image Magick can handle.

Notes: For more details please check the ImageMagick documentation.

2.1.1 Methods

Close

method from class IMMagickInfoMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The destructor.

Notes:

There is no need to call this method except you want to free all resources used by this object now without waiting for Realbasic to do it for you.

(e.g. some Realbasic versions crash on Windows if there are plugin objects not closed.)

2.1.2 Properties

Adjoin as Boolean

property from class IMMagickInfoMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: True if this file format supports multi-frame images.

Notes:

For more details please check the ImageMagick documentation.

Returns false for an invalid MagickInfo (handle=0).

(Read only property)

BlobSupport as Boolean

property from class IMMagickInfoMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: True if the encoder and decoder for this format supports operating on arbitrary BLOBs (rather than only disk files).

Notes:

As currently disc read/write does not work with the 5.1 plugins, we really need that to use the classes.

Returns false for an invalid MagickInfo (handle=0).

For more details please check the ImageMagick documentation.

(Read only property)

Description as String

property from class IMMagickInfoMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Long form image format description (e.g. "CompuServe graphics interchange format").

Notes:

For more details please check the ImageMagick documentation.
Returns "" for an invalid MagickInfo (handle=0).
(Read only property)

EndianSupport as Boolean

property from class IMMagickInfoMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Whether endian support is available.

Notes:

For more details please check the ImageMagick documentation.
Returns false for an invalid MagickInfo (handle=0).
(Read only property)

Handle as Integer

property from class IMMagickInfoMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The handle used internally by the plugin.

Notes:

A pointer to a MagickInfo structure.
For more details please check the ImageMagick documentation.
(Read and Write property)

ModuleName as String

property from class IMMagickInfoMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Name of module (e.g. "GIF") which registered this format.

Notes:

Value is "" if format is not registered by a module.
For more details please check the ImageMagick documentation.
Returns "" for an invalid MagickInfo (handle=0).
(Read only property)

Name as String

property from class IMMagickInfoMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Magick string (e.g. "GIF") which identifies this format.

Notes:

For more details please check the ImageMagick documentation.
Returns "" for an invalid MagickInfo (handle=0).
(Read only property)

Note as String

property from class IMMagickInfoMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Additional notes for this format.

Notes:

e.g. compilation parameters or copyright notices.
Returns "" for an invalid MagickInfo (handle=0).

For more details please check the ImageMagick documentation.
(Read only property)

Raw as Boolean

property from class IMMagickInfoMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: True if Image format does not contain size (must be specified in ImageInfo).

Notes:

Returns false for an invalid MagickInfo (handle=0).

For more details please check the ImageMagick documentation.

(Read only property)

SeekableStream as Boolean

property from class IMMagickInfoMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Returns True if the magick supports a seekable stream.

Notes:

For more details please check the ImageMagick documentation.

Returns false for an invalid MagickInfo (handle=0).

(Read only property)

Stealth as Boolean

property from class IMMagickInfoMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Unknown.

Notes:

For more details please check the ImageMagick documentation.

Returns false for an invalid MagickInfo (handle=0).

(Read only property)

ThreadSupport as Boolean

property from class IMMagickInfoMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: True if threading is supported.

Notes:

For more details please check the ImageMagick documentation.
Returns false for an invalid MagickInfo (handle=0).
(Read only property)

Version as String

property from class IMMagickInfoMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Version string.

Notes:

For more details please check the ImageMagick documentation.
Returns "" for an invalid MagickInfo (handle=0).
(Read only property)

2.2 class IMMissingFunctionExceptionMBS

class IMMissingFunctionExceptionMBS

class, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: A class for an exception in Image Magick.

Notes:

This exception is raised on every IM function if the library function behind is not available.
(this can be a plugin bug or a bad compiled library or simply a too old library.)
Subclass of the RuntimeException class.

2.3 class IMMagickPixelPacketMBS

class IMMagickPixelPacketMBS

class, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The class to describe a picture background.

Notes: Needed for IMImageMBS.NewImage function.

2.3.1 Methods

Close

method from class IMMagickPixelPacketMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The destructor.

Notes:

There is no need to call this method except you want to free all resources used by this object now without waiting for Realbasic to do it for you.

(e.g. some Realbasic versions crash on Windows if there are plugin objects not closed.)

HandleMemory as memoryblock

method from class IMMagickPixelPacketMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The content of the whole ImageInfo structure copied into a memoryblock.

Notes: Returns nil on any error.

2.3.2 Properties

Blue as Single

property from class IMMagickPixelPacketMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The blue color value.

Notes: (Read and Write property)

ColorSpace as Integer

property from class IMMagickPixelPacketMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Image pixel interpretation.

Notes:

If the colorspace is RGB the pixels are red, green, blue. If matte is true, then red, green, blue, and index. If it is CMYK, the pixels are cyan, yellow, magenta, black. Otherwise the colorspace is ignored.

constants:

UndefinedColorspace	0
RGBColorspace	1
GRAYColorspace	2
TransparentColor	3
OHTAColorspace	4
LABColorspace	5
XYZColorspace	6
YCbCrColorspace	7
YCCColorspace	8
YIQColorspace	9
YPbPrColorspace	10
YUVCOLORSPACE	11
CMYKColorspace	12
sRGBColorspace	13
HSBColorspace	14
HSLColorspace	15
HWBColorspace	16

(Read and Write property)

Depth as Integer

property from class IMMagickPixelPacketMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Image depth (8 or 16).

Notes: (Read and Write property)

Fuzz as double

property from class IMMagickPixelPacketMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Colors within this distance are considered equal.

Notes:

A number of algorithms search for a target color. By default the color must be exact. Use this to match colors that are close to the target color in RGB space.

(Read and Write property)

Green as Single

property from class IMMagickPixelPacketMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The green color value.

Notes: (Read and Write property)

Handle as Integer

property from class IMMagickPixelPacketMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The handle used internally by the plugin.

Notes:

A pointer to an MagickPixelPacket structure.

For more details please check the ImageMagick documentation.

(Read and Write property)

Index as Single

property from class IMMagickPixelPacketMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The index color value.

Notes:

Only for indexed color spaces.

(Read and Write property)

Matte as Boolean

property from class IMMagickPixelPacketMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Whether an alpha channel is used/present.

Notes:

Set to true to enable masks.

(Read and Write property)

Opacity as Single

property from class IMMagickPixelPacketMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The opacity part of the color value.

Notes: (Read and Write property)

Red as Single

property from class IMMagickPixelPacketMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The red color value.

Notes: (Read and Write property)

2.4 class IMMagickInfoListMBS

class IMMagickInfoListMBS

class, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The class with the list of the image formats supported in Image Magick.

Notes: For more details please check the ImageMagick documentation.

2.4.1 Methods

Item(index as integer) as IMMagickInfoMBS

method from class IMMagickInfoListMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The items inside this list.

Notes:

Index goes from 0 to count-1.

Returns nil on invalid index.

2.4.2 Properties

Count as Integer

property from class `IMMagickInfoListMBS`, Image Magick, MBS REALbasic ImageMagick Plugin (`ImageMagick`), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The number of items.

Notes:

Index goes from 0 to count-1.
(Read only property)

Handle as Integer

property from class `IMMagickInfoListMBS`, Image Magick, MBS REALbasic ImageMagick Plugin (`ImageMagick`), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The handle used internally by the plugin.

Notes:

A pointer to a `MagickInfo` list.
For more details please check the `ImageMagick` documentation.
(Read only property)

2.5 class `IMImageInfoMBS`

class `IMImageInfoMBS`

class, Image Magick, MBS REALbasic ImageMagick Plugin (`ImageMagick`), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: A class for information about an image.

Notes: For more details please check the `ImageMagick` documentation.

2.5.1 Methods

Clone as IMImageInfoMBS

method from class IMImageInfoMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Clones the ImageInfo object.

Notes: For more details please check the ImageMagick documentation.

Close

method from class IMImageInfoMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The destructor.

Notes:

There is no need to call this method except you want to free all resources used by this object now without waiting for Realbasic to do it for you.

(e.g. some Realbasic versions crash on Windows if there are plugin objects not closed.)

DestroyImageInfo

method from class IMImageInfoMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Destroys the image info and sets the handle to 0.

Notes:

For more details please check the ImageMagick documentation.

The destructor will call this for you if release=true.

HandleMemory as memoryblock

method from class IMImageInfoMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The content of the whole ImageInfo structure copied into a memoryblock.

Notes: Returns nil on any error.

2.5.2 Properties

Adjoin as Boolean

property from class IMImageInfoMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Join images into a single multi-image file.

Notes:

For more details please check the ImageMagick documentation.
(Read and Write property)

Affirm as Boolean

property from class IMImageInfoMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Unknown.

Notes:

For more details please check the ImageMagick documentation.
(Read and Write property)

Antialias as Boolean

property from class IMImageInfoMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Control antialiasing of rendered Postscript and Postscript or TrueType fonts.

Notes:

Enabled by default.

For more details please check the ImageMagick documentation.

(Read and Write property)

Authenticate as String

property from class IMImageInfoMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: An undocumented property.

Notes: (Read and Write property)

BackgroundColor as IMColorMBS

property from class IMImageInfoMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Image background color.

Notes: (Read and Write property)

BorderColor as IMColorMBS

property from class IMImageInfoMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Image border color.

Notes: (Read and Write property)

Channel as Integer

property from class IMImageInfoMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The channel to use.

Notes:

Constants for channel:

```
const UndefinedChannel = 0
const RedChannel       = & h0001
const GrayChannel      = & h0001
const CyanChannel      = & h0001
const GreenChannel     = & h0002
const MagentaChannel  = & h0002
const BlueChannel      = & h0004
const YellowChannel    = & h0004
const AlphaChannel     = & h0008
const OpacityChannel   = & h0008
const BlackChannel     = & h0020
const IndexChannel     = & h0020
const AllChannels      = & h7fffffff
```

(Read and Write property)

Colors as Integer

property from class IImageInfoMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: An undocumented property.

Notes: (Read and Write property)

ColorSpace as Integer

property from class IImageInfoMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Image pixel interpretation.

Example:

```
dim im as ImageMagickMBS // global
```

Function `IPictureToString(p as picture, magick as string, quality as integer)` **As string**

```
dim image as new IMImageMBS
dim imageinfo as IMImageInfoMBS
dim s,data as string
dim impp as new IMMagickPixelPacketMBS

// empty string for nil picture
if p = nil then
Return ""
end if

// create a new picture info

imageinfo = im.NewImageInfo
imageinfo.ColorSpace=1
// only color space is needed. 1 for RGB.

// background color of image
impp.red = 0
impp.Green = 0
impp.Blue = 0

// creates a new image object
if not image.NewImage(imageinfo,p.Width,p.Height,impp) then
Return ""
end if

// copy RB picture into IM Image at position 0/0
image.ColorSpace = 1
image.SetPicture(p.bitmapmbs,0,0)

// set compression data
imageinfo.Magick = magick
imageinfo.Quality = quality

// and rendering intent: 2=PerceptualIntent
image.RenderingIntent = 2

// create image data
data = image.ImageToBlob(imageinfo)

// release memory
image.DestroyImage
imageinfo.DestroyImageInfo

// return result
Return data

Exception
```

```
// in case of an exception return nothing
Return ""
```

End Function

Notes:

If the colorspace is RGB the pixels are red, green, blue. If matte is true, then red, green, blue, and index. If it is CMYK, the pixels are cyan, yellow, magenta, black. Otherwise the colorspace is ignored.

constants:

UndefinedColorspace	0
RGBColorspace	1
GRAYColorspace	2
TransparentColorspace	3
OHTAColorspace	4
LABColorspace	5
XYZColorspace	6
YCbCrColorspace	7
YCCColorspace	8
YIQColorspace	9
YPbPrColorspace	10
YUVColorspace	11
CMYKColorspace	12
sRGBColorspace	13
HSBColorspace	14
HSLColorspace	15
HWBColorspace	16

(Read and Write property)

Compression as Integer

property from class IMImageInfoMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Image compression type.

Notes:

useful constants:

```
const UndefinedCompression    = 0
const NoCompression          = 1
const BZipCompression        = 2
const FaxCompression         = 3
const Group4Compression      = 4
const JPEGCompression        = 5
const LosslessJPEGCompression = 6
const LZWCompression         = 7
const RLECompression         = 8
const ZipCompression         = 9
```

The default is the compression type of the specified image file.
For more details please check the ImageMagick documentation.
(Read and Write property)

Density as String

property from class IMImageInfoMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick),
Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Vertical and horizontal resolution in pixels of the image.

Notes:

This option specifies an image density when decoding a Postscript or Portable Document page.
(Read and Write property)

Depth as Integer

property from class IMImageInfoMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick),
Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Image depth (8 or 16).

Notes:

QuantumLeap must be defined before a depth of 16 is valid.
(Read and Write property)

Dither as Boolean

property from class IMImageInfoMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: An undocumented property.

Notes: (Read and Write property)

Endian as Integer

property from class IMImageInfoMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The endian setting to use.

Notes:

constants:

UndefinedEndian	0	
LSBEndian	1	(Windows)
MSBEndian	2	(Mac)

e.g. tiff files support different endian settings.

(Read and Write property)

Extract as String

property from class IMImageInfoMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: An undocumented property.

Notes: (Read and Write property)

Filename as String

property from class IMImageInfoMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The file path/name.

Notes:

The string must be in the encoding of the library and is limited to 4000 bytes.

For more details please check the ImageMagick documentation.

(Read and Write property)

Font as String

property from class IMImageInfoMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Text rendering font.

Notes:

If the font is a fully qualified X server font name, the font is obtained from an X server. To use a TrueType font, precede the TrueType filename with an @. Otherwise, specify a Postscript font name (e.g. "helvetica").

(Read and Write property)

Group as Integer

property from class IMImageInfoMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: An undocumented property.

Notes: (Read and Write property)

Handle as Integer

property from class IMImageInfoMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The handle used internally by the plugin.

Notes:

A pointer to a ImageInfo structure.

For more details please check the ImageMagick documentation.

(Read and Write property)

HeaderOnly as Boolean

property from class IMImageInfoMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: True if only the header was read from the image data.

Notes: (Read and Write property)

Interlace as Integer

property from class IMImageInfoMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The type of interlacing scheme (default NoInterlace).

Notes:

This option is used to specify the type of interlacing scheme for raw image formats such as RGB or YUV. NoInterlace means do not interlace, LineInterlace uses scanline interlacing, and PlaneInterlace uses plane interlacing. PartitionInterlace is like PlaneInterlace except the different planes are saved to individual files (e.g. image.R, image.G, and image.B). Use LineInterlace or PlaneInterlace to create an interlaced GIF or progressive JPEG image.

constants:

UndefinedInterlace	0	Unset value.
NoInterlace	1	Don't interlace image (RGBRGBRGBRGBRGB...)
LineInterlace	2	Use scanline interlacing (RRR...GGG...BBB...RRR...GGG...BBB...)
PlaneInterlace	3	Use plane interlacing (RRRRRR...GGGGG...BBBBB...)
PartitionInterlace	4	Similar to plane interlacing except that the different planes are saved to individual files (e.g. image.R, image.G, and image.B)

(Read and Write property)

Magick as String

property from class IMImageInfoMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Image encoding format (e.g. "GIF").

Example:

```
dim imageinfo as IMImageInfoMBS
dim blob as string
dim image as IMImageMBS

// Now lets convert to tiff
imageinfo.Filename = "image"
imageinfo.Magick="JPEG"
imageinfo.Quality = 10 //since we are displaying, lets use highest quality, lowest compression
blob = image.ImageToBlob(imageinfo)
```

Notes:

For more details please check the ImageMagick documentation.
(Read and Write property)

MatteColor as IMColorMBS

property from class IMImageInfoMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Image matte (transparent) color.

Notes: (Read and Write property)

Monochrome as Boolean

property from class IMImageInfoMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Transform the image to black and white.

Notes: (Read and Write property)

Orientation as Integer

property from class IMImageInfoMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The image orientation.

Notes:

constants:

```
const UndefinedOrientation    = 0
const TopLeftOrientation     = 1
const TopRightOrientation    = 2
const BottomRightOrientation = 3
const BottomLeftOrientation  = 4
const LeftTopOrientation     = 5
const RightTopOrientation    = 6
const RightBottomOrientation = 7
const LeftBottomOrientation  = 8
```

For more details please check the ImageMagick documentation.

(Read and Write property)

Page as String

property from class IMImageInfoMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Equivalent size of Postscript page.

Notes: (Read and Write property)

PointSize as Double

property from class IMImageInfoMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Text rendering font point size.

Notes: (Read and Write property)

Preview as Integer

property from class IMImageInfoMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Image manipulation preview option.

Notes:

Used by 'display'.

constants:

(Read and Write property)

Quality as Integer

property from class IMImageInfoMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: JPEG/MIFF/PNG compression level.

Notes:

Default value is 75.

(Read and Write property)

Release as Boolean

property from class IMImageInfoMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: If true, the destructor will release the handle.

Notes: (Read and Write property)

UndefinedPreview	0
RotatePreview	1
ShearPreview	2
RollPreview	3
HuePreview	4
SaturationPreview	5
BrightnessPreview	6
GammaPreview	7
SpiffPreview	8
DullPreview	9
GrayscalePreview	10
QuantizePreview	11
DespecklePreview	12
ReduceNoisePreview	13
AddNoisePreview	14
SharpenPreview	15
BlurPreview	16
ThresholdPreview	17
EdgeDetectPreview	18
SpreadPreview	19
SolarizePreview	20
ShadePreview	21
RaisePreview	22
SegmentPreview	23
SwirlPreview	24
ImplodePreview	25
WavePreview	26
OilPaintPreview	27
CharcoalDrawingPreview	28
JPEGPreview	29

ResolutionUnits as Integer

property from class IMImageInfoMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Units of image resolution.

Notes:

constants:

(Read and Write property)

UndefinedResolution	0	Unset value.
PixelsPerInchResolution	1	Density specifications are specified in units of pixels per inch (english units).
PixelsPerCentimeterResolution	2	Density specifications are specified in units of pixels per centimeter (metric units).

SamplingFactor as String

property from class IMImageInfoMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: An undocumented property.

Notes: (Read and Write property)

Scene as Integer

property from class IMImageInfoMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: An undocumented property.

Notes: (Read and Write property)

SceneCount as Integer

property from class IMImageInfoMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: An undocumented property.

Notes: (Read and Write property)

Scenes as String

property from class IMImageInfoMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: An undocumented property.

Notes: (Read and Write property)

ServerName as String

property from class IImageInfoMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: X11 display to display to.

Notes:

obtain fonts from, or to capture image from.

(Read and Write property)

Size as String

property from class IImageInfoMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Width and height of a raw image (an image which does not support width and height information).

Notes:

Size may also be used to affect the image size read from a multi-resolution format (e.g. Photo CD, JBIG, or JPEG).

(Read and Write property)

Temporary as Boolean

property from class IImageInfoMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Unknown.

Notes:

For more details please check the ImageMagick documentation.

(Read and Write property)

Texture as String

property from class IMImageInfoMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Image filename to use as background texture.

Notes: (Read and Write property)

Type as Integer

property from class IMImageInfoMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The Image type.

Notes:

constants:

UndefinedType	0
BilevelType	1
GrayscaleType	2
GrayscaleMatteType	3
PaletteType	4
PaletteMatteType	5
TrueColorType	6
TrueColorMatteType	7
ColorSeparationType	8
ColorSeparationMatteType	9
OptimizeType	10

(Read and Write property)

Verbose as Boolean

property from class IMImageInfoMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Print detailed information about the image if True.

Notes: (Read and Write property)

View as String

property from class IImageInfoMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: FlashPix viewing parameters.

Notes: (Read and Write property)

2.6 class ImageMagickMBS

class ImageMagickMBS

class, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The class for global functions from the Image Magick library

Notes:

Before using this class you need to load the ImageMagick bundle or dll.

Not all functions from the library are available through the plugin. If you need something special, please ask.

For Mac OS X you need the ImageMagick.bundle (on the plugins download page) and for Windows the normal ImageMagick installation with the DLL. The bundle is just the normal self containing dylib file dropped in a default bundle folder.

For more details please check the ImageMagick documentation.

ConsoleImageMagickMBS is for all applications, best for console applications.

ImageMagickMBS (without console in name) is for GUI applications only and has some more usefull functions like picture converting.

2.6.1 Methods

Copyright as String

method from class ImageMagickMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The copyright notice for this format.

Notes: For more details please check the ImageMagick documentation.

HomeURL as String

method from class ImageMagickMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Returns the home url of the library.

Notes: For more details please check the ImageMagick documentation.

InitializeMagick(path as string)

method from class ImageMagickMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Initializes the ImageMagick environment.

Example:

```
dim i as ImageMagickMBS
i=new ImageMagickMBS
i.InitializeMagick("")
```

Notes:

Path: The execution path of the current ImageMagick client.

For more details please check the ImageMagick documentation.

IsMagickInstantiated as boolean

method from class ImageMagickMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Returns true if the ImageMagick environment is currently instantiated.

Notes:

In other words: True if InitializeMagick has been called before.

For more details please check the ImageMagick documentation.

LoadErrorString as string

method from class ImageMagickMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 9.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The last error message from loading the image magick library.

LoadLibrary(path as string) as boolean

shared method from class ImageMagickMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Loads the dll/bundle on the give path.

Example:

```
dim i as new ImageMagickMBS

if TargetLinux then
if i.LoadLibrary("libMagick.so.6") then
//MsgBox "library loaded."
else
MsgBox "library failed."
end if
elseif TargetWin32 then
if i.LoadLibrary("CORE_RL_magick_.dll") then
//MsgBox "library loaded."
else
```

```

MsgBox "library failed."
end if
else
// Mac OS X
if i.LoadLibraryFile(GetFolderItem("ImageMagick.bundle")) then
//MsgBox "library loaded."
else
MsgBox "The library failed to load."
end if
end if

```

Notes:

In case the loading fails the library may be linked to some other libraries (e.g. X11) and you need to install them to get it working.

On Windows you can just pass the name of the library and the system will search it on the paths in the environment variable "PATH" (or the Windows folder).

On Linux, pass the path or name of the library and the system will search for it.

For more details please check the ImageMagick documentation.

With plugin version 6.1 the Mac OS X part accepts a path to a dylib file, too.
 Changed to a shared method in plugin version 10.4.

LoadLibraryFile(path as folderitem) as boolean

shared method from class ImageMagickMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Loads the dll/bundle on the give path.

Example:

```
dim i as new ImageMagickMBS
```

```
if TargetLinux then
```

```
if i.LoadLibrary("libMagick.so.6") then
  //MsgBox "library loaded."
else
  MsgBox "library failed."
end if
elseif TargetWin32 then
if i.LoadLibrary("CORE_RL_magick_.dll") then
  //MsgBox "library loaded."
else
  MsgBox "library failed."
end if
else
  // Mac OS X
if i.LoadLibraryFile(GetFolderItem("ImageMagick.bundle")) then
  //MsgBox "library loaded."
else
  MsgBox "The library failed to load."
end if
end if
```

Notes:

In case the loading fails the library may be linked to some other libraries (e.g. X11) and you need to install them to get it working.

This is the preferred way for Mac OS X as paths may not be unique.

For more details please check the ImageMagick documentation.

With plugin version 6.1 the Mac OS X part accepts a folderitem for a dylib file, too.
Changed to a shared method in plugin version 10.4.

MagickInfoList as IMMagickInfoListMBS

method from class ImageMagickMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick),
Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Returns the list of known image formats.

Notes:

Sets the last exception property.
For more details please check the ImageMagick documentation.

MagickToMime(name as string) as string

method from class ImageMagickMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick),
Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Returns the officially registered (or de facto) MIME media-type corresponding to a magick string.
Notes:

If there is no registered media-type, then the string "image/x-magick" (all lower case) is returned.

For more details please check the ImageMagick documentation.

NewImageInfo as IMImageInfoMBS

method from class ImageMagickMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick),
Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Creates a new ImageInfo object.
Notes:

Returns nil on low memory.
For more details please check the ImageMagick documentation.

NewImageList as IMImageMBS

method from class ImageMagickMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick),
Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Creates a new empty image list.
Notes: For more details please check the ImageMagick documentation.

PackageName as String

method from class ImageMagickMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The package name of the library.

Notes: For more details please check the ImageMagick documentation.

QuantumDepth as String

method from class ImageMagickMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The Quantum Depth of the library.

Notes: For more details please check the ImageMagick documentation.

QuantumDepthLibrary as Integer

method from class ImageMagickMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The quantum depth used to compile the library.

Notes: QuantumDepthLibrary and QuantumDepthPlugin must be equal for the plugin to work correctly. Currently it is compiled for 16bit support.

QuantumDepthPlugin as Integer

method from class ImageMagickMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The quantum depth used to compile the plugin.

Notes: QuantumDepthLibrary and QuantumDepthPlugin must be equal for the plugin to work correctly. Currently it is compiled for 16bit support.

ReadImage(info as IMImageInfoMBS) as IMImageMBS

method from class ImageMagickMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Reads an image from a file.

Notes:

Sets the last exception property.

Returns nil on any error.

You need to pass in an info object to describe the image.

For more details please check the ImageMagick documentation.

ReadImageFromString(info as IMImageInfoMBS, data as string) as IMImageMBS

method from class ImageMagickMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Reads an image from a string.

Notes:

Sets the last exception property.

Returns nil on any error.

You need to pass in an info object to describe the image.

For more details please check the ImageMagick documentation.

ReadImageHeaderFromString(info as IMImageInfoMBS, data as string) as IMImageMBS

method from class ImageMagickMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Reads the image header.

Notes:

Same as ReadImageFromString except the pixel data is not read.

Sets the last exception property.
For more details please check the ImageMagick documentation.

ReleaseDate as String

method from class ImageMagickMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick),
Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The release date of the library.
Notes: For more details please check the ImageMagick documentation.

Version as String

method from class ImageMagickMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick),
Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The version of the library.
Notes: For more details please check the ImageMagick documentation.

2.6.2 Properties

LastError as Integer

property from class ImageMagickMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick),
Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The last error code reported.
Notes:

If an exception is raised and it is not a warning exception, this exception code is saved in this property.
(Read and Write property)

LastException as IMExceptionMBS

property from class ImageMagickMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The last exception thrown by the Image Magick library.

Notes:

You should check this value after every call to the library, process the error and set the property to nil.

For more details please check the ImageMagick documentation.
(Read and Write property)

2.7 class IMImageAttributeMBS

class IMImageAttributeMBS

class, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 6.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: A class for an image attribute.

Notes:

Used only for reading the attributes.

Do not keep references over long times as memory of key/value pairs may be released.

2.7.1 Properties

Compression as Boolean

property from class IMImageAttributeMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 6.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Whether compression is used.

Notes: (Read only property)

Key as String

property from class `IMImageAttributeMBS`, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 6.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The key of this attribute.

Notes:

String is in binary text encoding.
(Read only property)

Value as String

property from class `IMImageAttributeMBS`, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 6.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The value of this attribute.

Notes:

String is in binary text encoding.
(Read only property)

2.8 class `IMColorMBS`

class `IMColorMBS`

class, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The Image Magick class to represent a color.

Example:

```
dim i as IMImageInfoMBS
dim c as IMColorMBS

c=i.BackgroundColor
c.red=65535 // full red
i.BackgroundColor=c
```

Notes:

As you see above the IMColorMBS object does not reference the original values, but contains a copy, so you must assign the modified color back to store it.
(Same as on the Realbasic Color class)

2.8.1 Properties

Blue as Integer

property from class IMColorMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The blue component.

Notes:

Value from 0 to 65535.
(Read and Write property)

Green as Integer

property from class IMColorMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The green component.

Notes:

Value from 0 to 65535.
(Read and Write property)

Opacity as Integer

property from class IMColorMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The opacity part of the color.

Notes:

Value from 0 to 65535.
(Read and Write property)

Red as Integer

property from class IMColorMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The red component.

Notes:

Value from 0 to 65535.
(Read and Write property)

2.9 class IMExceptionMBS

class IMExceptionMBS

class, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The class for information about an Image Magick Exception.

Notes:

Some functions can throw an exception and you find this exception object after calling the function inside the class. For Example after calling IMImageMBS.resize, the IMImageMBS.LastException property will be nil for no exception or just contain the exception from the resize operation.

For more details please check the ImageMagick documentation.

2.9.1 Methods

Close

method from class IMExceptionMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The destructor.

Notes:

There is no need to call this method except you want to free all resources used by this object now without waiting for Realbasic to do it for you.

(e.g. some Realbasic versions crash on Windows if there are plugin objects not closed.)

2.9.2 Properties

Description as String

property from class IMExceptionMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The description of the exception.

Notes:

For more details please check the ImageMagick documentation.

(Read and Write property)

Reason as String

property from class IMExceptionMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The reason of the exception.

Notes:

For more details please check the ImageMagick documentation.

(Read and Write property)

Severity as Integer

property from class IMExceptionMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The exception type.

Notes:

some usefull constants:

For more details please check the ImageMagick documentation.
(Read and Write property)

Signature as Integer

property from class IMExceptionMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The signature of the exception.

Notes:

For more details please check the ImageMagick documentation.
(Read and Write property)

2.10 class IMImageMBS

class IMImageMBS

class, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: A class for an Image Magick Image in memory.

Notes:

Can exist with or without pixel data.

For more details please check the ImageMagick documentation.

2.10.1 Methods

AdaptiveThreshold(width as integer, height as integer, offset as integer) as IMImageMBS

method from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: AdaptiveThreshold selects an individual threshold for each pixel based on the range of intensity values in its local neighborhood.

Notes:

This allows for thresholding of an image whose global intensity histogram doesn't contain distinctive peaks. Sets the last exception property.

width: The width of the local neighborhood.

height: The height of the local neighborhood.

offset: The mean offset.

For more details please check the ImageMagick documentation.

AddNoise(NoiseType as integer) as IMImageMBS

method from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Adds random noise to the image.

Notes:

Constants

For more details please check the ImageMagick documentation.
Sets the last exception property.

AppendImageToList(img as IMImageMBS)

method from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Adds an image to the image list.

Notes: For more details please check the ImageMagick documentation.

Average as IMImageMBS

method from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The Average() method takes a set of images and averages them together.

Notes:

Each image in the set must have the same width and height. Average() returns a single image with each corresponding pixel component of each image averaged. On failure, a nil image is returned and exception describes the reason for the failure.

Sets the last exception property.

For more details please check the ImageMagick documentation.

BilevelChannel(channel as integer, threshold as double) as boolean

method from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Changes the value of individual pixels based on the intensity of each pixel channel.

Notes:

The result is a high-contrast image.

channel: The channel type.

threshold: define the threshold values.

Constants for channel:

For more details please check the ImageMagick documentation.

BlackThreshold(threshold as string) as boolean

method from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: BlackThreshold is like Threshold but forces all pixels below the threshold into black while leaving all pixels above the threshold unchanged.

Notes:

No exceptions are generated.

threshold: Define the threshold value. (ASCII string)

For more details please check the ImageMagick documentation.

BlobSize as integer

method from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The expected size for this image written to a file.

Notes: For more details please check the ImageMagick documentation.

Blur(radius as double, sigma as double) as IMImageMBS

method from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Blurs an image.

Notes:

We convolve the image with a Gaussian operator of the given radius and standard deviation (sigma) . For reasonable results, the radius should be larger than sigma. Use a radius of 0 and BlurImage selects a suitable radius for you.

radius: The radius of the Gaussian, in pixels, not counting the center pixel.

sigma: The standard deviation of the Gaussian, in pixels.

For more details please check the ImageMagick documentation.

BlurImageChannel(channel as integer, radius as double, sigma as double) as IMImageMBS

method from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Blurs an image.

Notes:

We convolve the image with a Gaussian operator of the given radius and standard deviation (sigma) . For reasonable results, the radius should be larger than sigma. Use a radius of 0 and BlurImageChannel selects a suitable radius for you.

channel: The channel type.

radius: The radius of the Gaussian, in pixels, not counting the center pixel.

sigma: The standard deviation of the Gaussian, in pixels.

Constants for channel:

For more details please check the ImageMagick documentation.

Charcoal(radius as double, sigma as double) as IMImageMBS

method from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.4, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Charcoal creates a new image that is a copy of an existing one with the edge highlighted.

Notes:

radius: the radius of the pixel neighborhood.

sigma: The standard deviation of the Gaussian, in pixels.

Returns nil on any error.

Sets the last exception property.

Chop(x as integer, y as integer, width as integer, height as integer) as IMImageMBS

method from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 6.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Chop removes a region of an image and collapses the image to occupy the removed portion.

Notes:

Returns nil on any error.

Sets the last exception property.

ClipPath(path as string, inside as boolean) as boolean

method from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Sets the image clip mask based any clipping path information if it exists.

Notes:

Returns true on success and false on any error.

Clone as IMImageMBS

method from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Creates a copy of this image object.

Notes: For more details please check the ImageMagick documentation.

CloneImageAttributes(image as IImageAttributeMBS) as Boolean

method from class IImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 6.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: CloneImageAttributes() clones one or more image attributes.

Notes: Returns false on any error.

CloneImageProfiles(SourceImage as IImageMBS) as boolean

method from class IImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Clones one or more image profiles.

Notes: Returns false on any error and true on success.

Close

method from class IImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The destructor.

Notes:

There is no need to call this method except you want to free all resources used by this object now without waiting for Realbasic to do it for you.

(e.g. some Realbasic versions crash on Windows if there are plugin objects not closed.)

CoalesceImages as IImageMBS

method from class IImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 6.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: CoalesceImages composites a set of images while respecting any page offsets and disposal methods.

Notes:

GIF, MIFF, and MNG animation sequences typically start with an image background and each subsequent image varies in size and offset. `CoalesceImages()` returns a new sequence where each image in the sequence is the same size as the first and composited with the next image in the sequence.

Returns nil on any error.
Sets the last exception property.

Colorize(opacity as string, PenColorRed as integer, PenColorGreen as integer, PenColorBlue as integer, PenColorOpacity as integer) as IImageMBS

method from class IImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.4, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Method `ColorizeImage` creates a new image that is a copy of an existing one with the image pixels colorized.

Notes:

The colorization is controlled with the pen color and the opacity levels.

opacity: A character string indicating the level of opacity as a percentage (0-100).
PenColorRed, PenColorGreen, PenColorBlue and PenColorOpacity define the pen color used.

Returns nil on any error.
Sets the last exception property.

Combine(channel as integer) as IImageMBS

method from class IImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Combines one or more images into a single image.

Notes:

The grayscale value of the pixels of each image in the sequence is assigned in order to the specified channels of the combined image. The typical ordering would be image 1 =>Red, 2 =>Green, 3 =>Blue, etc.

The `lastexception` property is set.

CompareImageLayers(ImageLayerMethod as integer) as IMImageMBS

method from class `IMImageMBS`, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 8.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: `CompareImageLayers()` compares each image with the next in a sequence and returns the minimum bounding region of all the pixel differences (of the `mageLayerMethod` specified) it discovers.

Notes:

Images do NOT have to be the same size, though it is best that all the images are 'coalesced' (images are all the same size, on a flattened canvas, so as to represent exactly how an specific frame should look).

No GIF dispose methods are applied, so GIF animations must be coalesced before applying this image operator to find differences to them.

`ImageLayerMethod`:

the layers type to compare images with. Must be one of... `CompareAnyLayer`, `CompareClearLayer`, `CompareOverlayLayer`.

Can raise an exception.

Composite(ComposeOperator as integer, Image as IMImageMBS, x as integer, y as integer)

method from class `IMImageMBS`, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Returns the second image composited onto the first at the specified offsets.

Notes:

`compose`: Specifies an image composite operator.

`Image`: The second image.

`x`: An integer that specifies the column offset of the composited image.

`y`: An integer that specifies the row offset of the composited image.

No error code and exception!

ConsolidateCMYKImages as IImageMBS

method from class IImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 6.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Consolidates a sequence of CMYK images.

Notes:

Returns nil on any error.
Sets the last exception property.

CopyPicture(x as integer, y as integer, width as integer, height as integer) as picture

method from class IImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe in REAL Studio 2010r3 or newer, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Copies a portion of the Image Magick Image and returns a Realbasic picture.

Example:

```
dim image as IImageMBS // your image
Canvas1.Backdrop=image.CopyPicture(0,0,image.Width,image.Height)
```

Notes:

Sets the last exception property.
Returns nil on any error.
This method works only for bitmap images.
x and y are zero based.

CopyPictureMask(x as integer, y as integer, width as integer, height as integer) as picture

method from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe in REAL Studio 2010r3 or newer, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Copies a portion of the mask of the Image Magick Image and returns a Realbasic picture.

Example:

```
dim image as IMImageMBS // your image
Canvas1.Backdrop=image.CopyPictureMask(0,0,image.Width,image.Height)
```

Notes:

Sets the last exception property.

Returns nil on any error.

This method works only for bitmap images.

x and y are zero based.

CopyPixel(x as integer, y as integer) as IMColorMBS

method from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Copies a pixel.

Notes:

Returns nil on any error.

This method works only for bitmap images.

x and y are zero based.

Crop(x as integer, y as integer, width as integer, height as integer) as IMImageMBS

method from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 6.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Crop extracts a region of the image starting at the offset defined by geometry.

Notes:

Returns nil on any error.
Sets the last exception property.

CycleColormap(displace as integer) as boolean

method from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick),
Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Displaces an image's colormap by a given number of positions.

Notes:

If you cycle the colormap a number of times you can produce a psychedelic effect.
Returns true on success.
displace: displace the colormap this amount.

DeconstructImages as IMImageMBS

method from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick),
Plugin version: 6.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: DeconstructImages() compares each image with the next in a sequence and returns the minimum bounding region of all differences from the first image.

Notes:

Returns nil on any error.
Sets the last exception property.

DeleteImageAttribute(key as string) as Boolean

method from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick),
Plugin version: 6.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: DeleteImageAttribute() deletes an attribute from the image.

Notes: Returns false on any error.

Despeckle() as IMImageMBS

method from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Reduces the speckle noise in an image while perserving the edges of the original image.

Notes:

Sets the last exception property.

For more details please check the ImageMagick documentation.

DestroyImage

method from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Releases the memory used for this image and sets handle to 0.

Notes:

For more details please check the ImageMagick documentation.

The destructor will call this for you if release=true.

DestroyImageAttributes

method from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 6.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Deallocates memory associated with the image attribute list.

DestroyImageList

method from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Destroys the image list and sets the handle to 0.

Notes:

For more details please check the ImageMagick documentation.
The destructor will call this for you if `release=true`.

DestroyImageProfiles

method from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick),
Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Releases memory associated with an image profile map.

Edge(radius as double) as IMImageMBS

method from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick),
Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Finds edges in an image.

Notes:

Radius defines the radius of the convolution filter. Use a radius of 0 and Edge selects a suitable radius for you.

Sets the last exception property.

For more details please check the ImageMagick documentation.

Emboss(radius as double, sigma as double) as IMImageMBS

method from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick),
Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Returns a grayscale image with a three-dimensional effect.

Notes:

We convolve the image with a Gaussian operator of the given radius and standard deviation (sigma) . For reasonable results, radius should be larger than sigma. Use a radius of 0 and Emboss selects a suitable radius for you.

Sets the last exception property.

For more details please check the ImageMagick documentation.

FlattenImages as IImageMBS

method from class IImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 6.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Flatten composites all images from the current image pointer to the end of the image list and returns a single flattened image.

Notes:

Returns nil on any error.
Sets the last exception property.

Flip as IImageMBS

method from class IImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 6.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Flip creates a vertical mirror image by reflecting the pixels around the central x-axis.

Notes:

Returns nil on any error.
Sets the last exception property.

Flop as IImageMBS

method from class IImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 6.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Flop creates a horizontal mirror image by reflecting the pixels around the central y-axis.

Notes:

Returns nil on any error.
Sets the last exception property.

FxImage(expression as string) as IMImageMBS

method from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 8.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: FxImage() applies a mathematical expression to the specified image.

Notes: Can raise an exception.

GaussianBlurChannel(channel as integer, radius as double, sigma as double) as IMImageMBS

method from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Blurs an image.

Notes:

We convolve the image with a Gaussian operator of the given radius and standard deviation (sigma) . For reasonable results, the radius should be larger than sigma. Use a radius of 0 and GaussianBlur selects a suitable radius for you.

Sets the last exception property.

radius: the radius of the Gaussian, in pixels, not counting the center pixel.

channel: The channel type.

sigma: the standard deviation of the Gaussian, in pixels.

Constants for channel:

For more details please check the ImageMagick documentation.

GetImageAttribute(key as string) as IMImageAttributeMBS

method from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 6.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: `GetImageAttribute` searches the list of image attributes and returns a reference to the attribute if it exists otherwise nil.

`GetImageClippingPathAttribute` as `IMImageAttributeMBS`

method from class `IMImageMBS`, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 6.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: `GetImageClippingPathAttribute` searches the list of image attributes and returns a reference to a clipping path if it exists otherwise nil.

`GetImageProfile(name as string)` as string

method from class `IMImageMBS`, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Gets a profile associated with an image by name.

Notes: Returns "" on any error.

`GetNextImageAttribute` as `IMImageAttributeMBS`

method from class `IMImageMBS`, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 6.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: `GetNextImageAttribute()` gets the next image attribute.

Notes: Returns nil on any error.

`GetNextImageProfile` as string

method from class `IMImageMBS`, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Gets the next profile name for an image.

Notes: Returns "" on any error.

HandleMemory as memoryblock

method from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The content of the whole Image structure copied into a memoryblock.

Notes: Returns nil on any error.

ImagesToBlob(info as IMImageInfoMBS) as String

method from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: ImagesToBlob implements direct to memory image formats.

Notes:

It returns the image sequence as a string. The magick member of the ImageInfo structure determines the format of the returned blob (GIF, JPEG, PNG, etc.)

Note, some image formats do not permit multiple images to the same image stream (e.g. JPEG). in this instance, just the first image of the sequence is returned as a blob.

Sets the last exception property and returns "" on any error.

For more details please check the ImageMagick documentation.

ImageToBlob(info as IMImageInfoMBS) as String

method from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: ImagesToBlob implements direct to memory image formats.

Example:

```
dim im as ImageMagickMBS // global
```

```
Function IMPictureToString(p as picture, magick as string, quality as integer) As string
```

```
dim image as new IMImageMBS
```

```
dim imageinfo as IMImageInfoMBS
```

```

dim s,data as string
dim impp as new IMMagickPixelPacketMBS

// empty string for nil picture
if p = nil then
Return ""
end if

// create a new picture info

imageinfo = im.NewImageInfo
imageinfo.ColorSpace=1
// only color space is needed. 1 for RGB.

// background color of image
impp.red = 0
impp.Green = 0
impp.Blue = 0

// creates a new image object
if not image.NewImage(imageinfo,p.Width,p.Height,impp) then
Return ""
end if

// copy RB picture into IM Image at position 0/0
image.ColorSpace = 1
image.SetPicture(p.bitmapmbs,0,0)

// set compression data
imageinfo.Magick = magick
imageinfo.Quality = quality

// and rendering intent: 2=PerceptualIntent
image.RenderingIntent = 2

// create image data
data = image.ImageToBlob(imageinfo)

// release memory
image.DestroyImage
imageinfo.DestroyImageInfo

// return result
Return data

Exception
// in case of an exception return nothing
Return ""

```

End Function

Notes:

It returns the image sequence as a string. The magick member of the ImageInfo structure determines the format of the returned blob (GIF, JPEG, PNG, etc.)

Note, some image formats do not permit multiple images to the same image stream (e.g. JPEG). in this instance, just the first image of the sequence is returned as a blob.

Sets the last exception property and returns "" on any error.
For more details please check the ImageMagick documentation.

Implode(factor as double) as IMImageMBS

method from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick),
Plugin version: 5.4, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Method ImplodeImage creates a new image that is a copy of an existing one with the image pixels "implode" by the specified percentage.

Notes:

factor: A double value that defines the extent of the implosion.

Returns nil on any error.
Sets the last exception property.

IsBlobExempt as boolean

method from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick),
Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Returns true if the blob is exempt.

Notes: For more details please check the ImageMagick documentation.

IsBlobSeekable as boolean

method from class `IMImageMBS`, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Returns true if the blob is seekable.

Notes: For more details please check the ImageMagick documentation.

IsBlobTemporary as boolean

method from class `IMImageMBS`, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Returns true if the blob is temporary.

Notes: For more details please check the ImageMagick documentation.

Magnify as IMImageMBS

method from class `IMImageMBS`, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: A convenience method that scales an image proportionally to twice its size.

Notes:

Sets the last exception property.

For more details please check the ImageMagick documentation.

MedianFilter(radius as double) as IMImageMBS

method from class `IMImageMBS`, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Applies a digital filter that improves the quality of a noisy image.

Notes:

Each pixel is replaced by the median in a set of neighboring pixels as defined by radius.
Sets the last exception property.

For more details please check the ImageMagick documentation.

MergeImageLayers(ImageLayerMethod as integer) as IMImageMBS

method from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick),
Plugin version: 8.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: MergeImageLayers() composes all the image layers from the current given image onward to produce a single image of the merged layers.

Notes:

The initial canvas's size depends on the given ImageLayerMethod, and is initialized using the first image's background color. The images are then composited onto that image in sequence using the given composition that has been assigned to each individual image.

ImageLayerMethod:

the method of selecting the size of the initial canvas.

MergeLayer: Merge all layers onto a canvas just large enough to hold all the actual images. The virtual canvas of the first image is preserved but otherwise ignored.

FlattenLayer: Use the virtual canvas size of first image. Images which fall outside this canvas is clipped. This can be used to 'fill out' a given virtual canvas.

MosaicLayer: Start with the virtual canvas of the first image, enlarging left and right edges to contain all images. Images with negative offsets will be clipped.

Can raise an exception.

Minify as IImageMBS

method from class IImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: A convenience method that scales an image proportionally to half its size.

Notes:

Sets the last exception property.

For more details please check the ImageMagick documentation.

MosaicImages as IImageMBS

method from class IImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 6.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: MosaicImages inlays an image sequence to form a single coherent picture.

Notes:

It returns a single image with each image in the sequence composited at the location defined by the page member of the image structure.

Returns nil on any error.

Sets the last exception property.

MotionBlur(radius as double, sigma as double, angle as double) as IImageMBS

method from class IImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Simulates motion blur.

Notes:

We convolve the image with a Gaussian operator of the given radius and standard deviation (sigma). For reasonable results, radius should be larger than sigma. Use a radius of 0 and MotionBlur selects a suitable radius for you. Angle gives the angle of the blurring motion.

Sets the last exception property.

For more details please check the ImageMagick documentation.

NewImage(info as IMImageInfoMBS, width as integer, height as integer, background as IM-MagickPixelPacketMBS) as boolean

method from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Creates a new image.

Example:

```
dim im as ImageMagickMBS // global
dim p as picture
dim imageinfo as IMImageInfoMBS
dim image as IMImageMBS
dim b as new IMMagickPixelPacketMBS
b.Blue=65535
b.ColorSpace=1 // RGB
b.Depth=16

imageinfo = im.NewImageInfo
imageinfo.Depth=16
imageinfo.ColorSpace=1

//this should read any image IM understands
image = new IMImageMBS
if image.NewImage(imageinfo,500,500,b) then
p=NewPicture(300,300,32)
p.Graphics.ForeColor=Rgb(255,0,0)
p.Graphics.FillOval 0,0,300,300
image.SetPicture p,0,0
else
MsgBox "failed"
end if
```

Notes: Returns false on failure and true on success.

OilPaint(radius as double) as IMImageMBS

method from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.4, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Method OilPaintImage creates a new image that is a copy of an existing one with each pixel

component replaced with the color of greatest frequency in a circular neighborhood.

Notes:

radius parameter: radius of the circular neighborhood.

Returns nil on any error.

Sets the last exception property.

OptimizeImageLayers as IMImageMBS

method from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 8.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: OptimizeImageLayers() compares each image the GIF disposed forms of the previous image in the sequence.

Notes:

From this it attempts to select the smallest cropped image to replace each frame, while preserving the results of the GIF animation.

Can raise an exception.

OptimizeImageTransparency

method from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 8.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: OptimizeImageTransparency() takes a frame optimized GIF animation, and compares the overlaid pixels against the disposal image resulting from all the previous frames in the animation.

Notes:

Any pixel that does not change the disposal image (and thus does not effect the outcome of an overlay) is made transparent.

WARNING: This modifies the current images directly, rather than generate a new image sequence.

Can raise an exception.

OptimizePlusImageLayers as IImageMBS

method from class IImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 8.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: OptimizeImagePlusLayers() is exactly as OptimizeImageLayers(), but may also add or even remove extra frames in the animation, if it improves the total number of pixels in the resulting GIF animation.

Notes: Can raise an exception.

ProfileImage(name as string, ProfileData as string) as boolean

method from class IImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Adds or removes a ICC, IPTC, or generic profile from an image.

Notes:

If the ProfileData is "", it is removed from the image otherwise added. Use a name of '*' and a ProfileData of "" to remove all profiles from the image.

Returns false on any error and true on success.

RadialBlur(angle as double) as IImageMBS

method from class IImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: RadialBlur applies a radial blur to the image.

Notes:

angle: The angle of the radial blur.

Sets the last exception property.

For more details please check the ImageMagick documentation.

RandomThresholdChannel(channel as integer, thresholds as string) as boolean

method from class `IMImageMBS`, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Changes the value of individual pixels based on the intensity of each pixel compared to a random threshold.

Notes:

The result is a low-contrast, two color image.

channel: The channel or channels to be thresholded.

thresholds: a geometry string containing low,high thresholds. If the string contains 2x2, 3x3, or 4x4, an ordered dither of order 2, 3, or 4 is performed instead. (ASCII string)

Sets the last exception property.

Constants for channel:

For more details please check the ImageMagick documentation.

ReduceNoise(radius as double) as IMImageMBS

method from class `IMImageMBS`, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Smooths the contours of an image while still preserving edge information.

Notes:

The algorithm works by replacing each pixel with its neighbor closest in value. A neighbor is defined by radius. Use a radius of 0 and `ReduceNoise` selects a suitable radius for you.

For more details please check the ImageMagick documentation.

RemoveFirstImageFromList as IImageMBS

method from class IImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Removes the first image from the image list and returns the image.

Notes:

Returns nil on any error.

For more details please check the ImageMagick documentation.

RemoveImageProfile(name as string) as boolean

method from class IImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Removes a profile from the image-map by its name.

Notes:

name: The name of the profile to be removed.

Returns false on any error and true on success.

ResetImageAttributeIterator

method from class IImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 6.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: ResetImageAttributeIterator() resets the image attributes iterator.

Notes: Use it in conjunction with GetNextImageAttribute() to iterate over all the values associated with an image.

ResetImageProfileIterator

method from class IImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Resets the image profile iterator.

Notes: Use it in conjunction with `GetNextImageProfile()` to iterate over all the profiles associated with an image.

Resize(width as integer, height as integer, FilterID as integer, blur as double) as IMImageMBS

method from class `IMImageMBS`, Image Magick, MBS REALbasic ImageMagick Plugin (`ImageMagick`), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Scales an image to the desired dimensions.

Notes:

Constants for the `FilterID`:

Most of the filters are FIR (finite impulse response), however, Bessel, Gaussian, and Sinc are IIR (infinite impulse response). Bessel and Sinc are windowed (brought down to zero) with the Blackman filter. Sets the last exception property.

RGBTransformImage(Colorspace as integer) as boolean

method from class `IMImageMBS`, Image Magick, MBS REALbasic ImageMagick Plugin (`ImageMagick`), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Method `RGBTransformImage` converts the reference image from RGB to an alternate colorspace.

Notes:

The transformation matrices are not the standard ones: the weights are rescaled to normalized the range of the transformed values to be [0..MaxRGB] .

`colorspace`: An integer value that indicates which colorspace to transform the image.

Returns false on any error and true on success.

constants:

Roll(x as integer, y as integer) as IImageMBS

method from class IImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 6.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Roll offsets an image as defined by x and y.

Notes:

Returns nil on any error.

Sets the last exception property.

Rotate(degrees as double) as IImageMBS

method from class IImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Rotation of an image.

Notes:

Method RotateImage creates a new image that is a rotated copy of an existing one. Positive angles rotate counter-clockwise (right-hand rule), while negative angles rotate clockwise. Rotated images are usually larger than the originals and have 'empty' triangular corners. X axis. Empty triangles left over from shearing the image are filled with the color specified by the image background_ color. RotateImage allocates the memory necessary for the new Image structure and returns a pointer to the new image.

Method RotateImage is based on the paper "A Fast Algorithm for General Raster Rotation" by Alan W. Paeth. RotateImage is adapted from a similar method based on the Paeth paper written by Michael Halle of the Spatial Imaging Group, MIT Media Lab.

degrees: Specifies the number of degrees to rotate the image.

Sets the lastexception property.

Returns nil on low memory.

For more details please check the ImageMagick documentation.

Sample(width as integer, height as integer) as IMImageMBS

method from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Scales an image to the desired dimensions with pixel sampling.

Notes:

Unlike other scaling methods, this method does not introduce any additional color into the scaled image. For more details please check the ImageMagick documentation. Sets the last exception property.

Scale(width as integer, height as integer) as IMImageMBS

method from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Changes the size of an image to the given dimensions.

Example:

```
dim image as IMImageMBS // your image
image=Image.Scale(100,80)
```

Notes:

This method was designed by Bob Friesenhahn as a low cost thumbnail generator.

columns: The number of columns in the scaled image.

rows: The number of rows in the scaled image.

Sets the last exception property.

For more details please check the ImageMagick documentation.

SetImageAttribute(key as string, value as string) as boolean

method from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 6.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: SetImageAttribute searches the list of image attributes and replaces the attribute value.

Notes: If it is not found in the list, the attribute name and value is added to the list. If the attribute exists in the list, the value is concatenated to the attribute. SetImageAttribute returns True if the attribute is successfully concatenated or added to the list, otherwise False. If the value is "", the matching key is deleted from the list.

SetImageColorspace(Colorspace as integer) as boolean

method from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Sets the colorspace member of the Image structure.

Notes: Returns false on any error and true on success.

SetImageProfile(name as string, ProfileData as string) as boolean

method from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Adds a named profile to the image.

Notes:

If a profile with the same name already exists, it is replaced. This method differs from the ProfileImage() method in that it does not apply CMS color profiles.

name: The profile name.

profiledata: The binary data of the profile.

Returns false on any error and true on success.

SetPicture(pic as picture, x as integer, y as integer)

method from class IImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe in REAL Studio 2010r3 or newer, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Copies the pixels from a given Realbasic picture into the Image Magick Image at the given location.

Example:

```
dim image as IImageMBS // your image
dim p as picture

p=NewPicture(32,32,32)
p.Graphics.ForeColor=rgb(0,255,0)
p.Graphics.FillRect 0,0,32,32

image.SetPicture(p,30,30)
```

Notes:

Sets the last exception property.
The method will do nothing on bad bounds.
This method works only for bitmap images.
x and y are zero based.

SetPictureMask(maskpic as picture, x as integer, y as integer)

method from class IImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe in REAL Studio 2010r3 or newer, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Copies the pixels from a given Realbasic picture into the mask of the Image Magick Image at the given location.

Example:

```
dim i as IImageMBS // your image
dim p as picture

p=NewPicture(32,32,32)
p.Graphics.ForeColor=rgb(0,255,0)
```

```
p.Graphics.FillRect 0,0,32,32
```

```
i.SetPictureMask(p,30,30)
```

Notes:

Sets the last exception property.
 The method will do nothing on bad bounds.
 This method works only for bitmap images.
 x and y are zero based.
 You may need to set matte=True after this.

SetPixel(x as integer, y as integer, newPixel as IMColorMBS)

method from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick),
 Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Sets a pixel value.

Example:

```
dim image as IMImageMBS // your image
dim co as IMColorMBS

co=new IMColorMBS
co.blue=65535 // max value
image.SetPixel 50,50,co // Makes Pixel 50/50 blue
```

Notes:

The method will fail silently if the values are out of bounds or the image is not a bitmap image.
 This method works only for bitmap images.
 x and y are zero based.

Shade(gray as boolean, azimuth as double, elevation as double) as IMImageMBS

method from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick),
 Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Shines a distant light on an image to create a three-dimensional effect.

Notes:

You control the positioning of the light with azimuth and elevation; azimuth is measured in degrees off the x axis and elevation is measured in pixels above the Z axis.

Sets the last exception property.

For more details please check the ImageMagick documentation.

SharpenChannel(channel as integer, radius as double, sigma as double) as IMImageMBS

method from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Sharpens one or more image channels.

Notes:

We convolve the image with a Gaussian operator of the given radius and standard deviation (sigma) . For reasonable results, radius should be larger than sigma. Use a radius of 0 and Sharpen selects a suitable radius for you.

channel: The channel type.

radius: The radius of the Gaussian, in pixels, not counting the center pixel.

sigma: The standard deviation of the Laplacian, in pixels.

Constants for channel:

Sets the last exception property.

For more details please check the ImageMagick documentation.

Shave(x as integer, y as integer, width as integer, height as integer) as IMImageMBS

method from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 6.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Shave shaves pixels from the image edges.

Notes:

It allocates the memory necessary for the new Image structure and returns a pointer to the new image.
Returns nil on any error.
Sets the last exception property.

Shear(Xshear as double, Yshear as double) as IMImageMBS

method from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick),
Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Method ShearImage creates a new image that is a shear_ image copy of an existing one.

Notes:

Shearing slides one edge of an image along the X or Y axis, creating a parallelogram. An X direction shear slides an edge along the X axis, while a Y direction shear slides an edge along the Y axis. The amount of the shear is controlled by a shear angle. For X direction shears, x_ shear is measured relative to the Y axis, and similarly, for Y direction shears y_ shear is measured relative to the X axis. Empty triangles left over from shearing the image are filled with the color defined by the pixel at location (0,0). ShearImage allocates the memory necessary for the new Image structure and returns a pointer to the new image.

Xshear and Yshear specify the number of degrees to shear the image.

Sets the last exception property.
For more details please check the ImageMagick documentation.

Solarize(factor as double) as boolean

method from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick),
Plugin version: 5.4, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Method SolarizeImage produces a 'solarization' effect seen when exposing a photographic film to light during the development process.

Notes:

factor: An double value that defines the extent of the solarization.
Returns nil on any error.
Sets the last exception property.

Splice(x as integer, y as integer, width as integer, height as integer) as IMImageMBS

method from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 6.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Splice splices a solid color into the image as defined by the geometry.

Notes:

Returns nil on any error.

Sets the last exception property.

Spread(radius as double) as IMImageMBS

method from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: This is a special effects method that randomly displaces each pixel in a block defined by the radius parameter.

Notes:

radius: Choose a random pixel in a neighborhood of this extent.

Sets the last exception property.

For more details please check the ImageMagick documentation.

Stegano(watermarkImage as IMImageMBS) as IMImageMBS

method from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.4, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Method SteganoImage hides a digital watermark within the image.

Notes:

Returns nil on any error.

Sets the last exception property.

Stereo(otherImage as IImageMBS) as IImageMBS

method from class IImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.4, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Method StereoImage combines two images and produces a single image that is the composite of a left and right image of a stereo pair.

Notes:

The left image is converted to gray scale and written to the red channel of the stereo image. The right image is converted to gray scale and written to the blue channel of the stereo image. View the composite image with red-blue glasses to create a stereo effect.

left image = self
right image = otherImage parameter

Returns nil on any error.
Sets the last exception property.

Swirl(degrees as double) as IImageMBS

method from class IImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.4, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Method SwirlImage creates a new image that is a copy of an existing one with the image pixels "swirl" at a specified angle.

Notes:

degrees: An double value that defines the tightness of the swirling.

Returns nil on any error.
Sets the last exception property.

Thumbnail(width as integer, height as integer) as IMImageMBS

method from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Changes the size of an image to the given dimensions.

Notes:

Sets the last exception property.

This method was designed by Bob Friesenhahn as a low cost thumbnail generator.

For more details please check the ImageMagick documentation.

TransformRGBImage(Colorspace as integer) as boolean

method from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Method TransformRGBImage converts the reference image from an alternate colorspace.

Notes:

The transformation matrices are not the standard ones: the weights are rescaled to normalized the range of the transformed values to be [0..MaxRGB] .

colorspace: An integer value that indicates the colorspace the image is currently in. On return the image is in the RGB color space.

Returns false on any error and true on success.

constants:

Trim as IMImageMBS

method from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 6.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Trim trims pixels from the image edges.

Notes:

It allocates the memory necessary for the new Image structure and returns a pointer to the new image.

Returns nil on any error.

Sets the last exception property.

UnsharpMaskChannel(channel as integer, radius as double, sigma as double, amount as double, threshold as double) as IMImageMBS

method from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Sharpens one or more image channels.

Notes:

We convolve the image with a Gaussian operator of the given radius and standard deviation (sigma). For reasonable results, radius should be larger than sigma. Use a radius of 0 and UnsharpMask selects a suitable radius for you.

Constants for channel:

Sets the last exception property.

For more details please check the ImageMagick documentation.

Wave(amplitude as double, wavelength as double) as IMImageMBS

method from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.4, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Method Wave creates a new image that is a copy of an existing one with the image pixels altered along a sine wave.

Notes:

Parameters are double values that indicates the amplitude and wavelength of the sine wave.

Returns nil on any error.

Sets the last exception property.

WhiteThreshold(threshold as string) as boolean

method from class IImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: WhiteThreshold is like Threshold but forces all pixels above the threshold into white while leaving all pixels below the threshold unchanged.

Notes:

No exceptions are generated.

threshold: Define the threshold value. (ASCII string)

For more details please check the ImageMagick documentation.

const UndefinedException	= 0
const WarningException	= 300
const ResourceLimitWarning	= 300
const TypeWarning	= 305
const OptionWarning	= 310
const DelegateWarning	= 315
const MissingDelegateWarning	= 320
const CorruptImageWarning	= 325
const FileOpenWarning	= 330
const BlobWarning	= 335
const StreamWarning	= 340
const CacheWarning	= 345
const CoderWarning	= 350
const ModuleWarning	= 355
const DrawWarning	= 360
const ImageWarning	= 365
const XServerError	= 380
const MonitorWarning	= 385
const RegistryWarning	= 390
const ConfigureWarning	= 395
const ErrorException	= 400
const ResourceLimitError	= 400
const TypeError	= 405
const OptionError	= 410
const DelegateError	= 415
const MissingDelegateError	= 420
const CorruptImageError	= 425
const FileOpenError	= 430
const BlobError	= 435
const StreamError	= 440
const CacheError	= 445
const CoderError	= 450
const ModuleError	= 455
const DrawError	= 460
const ImageError	= 465
const XServerError	= 480
const MonitorError	= 485
const RegistryError	= 490
const ConfigureError	= 495
const FatalErrorException	= 700
const ResourceLimitFatalError	= 700
const TypeFatalError	= 705
const OptionFatalError	= 710
const DelegateFatalError	= 715
const MissingDelegateFatalError	= 720
const CorruptImageFatalError	= 725
const FileOpenFatalError	= 730
const BlobFatalError	= 735
const StreamFatalError	= 740
const CacheFatalError	= 745
const CoderFatalError	= 750
const ModuleFatalError	= 755
const DrawFatalError	= 760
const ImageFatalError	= 765
const XServerFatalError	= 780
const MonitorFatalError	= 785
const RegistryFatalError	= 790
const ConfigureFatalError	= 795

```

UndefinedNoise      =0
UniformNoise        =1
GaussianNoise       =2
MultiplicativeGaussianNoise =3
ImpulseNoise        =4
LaplacianNoise      =5
PoissonNoise        =6

```

```

const UndefinedChannel = 0
const RedChannel       = & h0001
const GrayChannel     = & h0001
const CyanChannel     = & h0001
const GreenChannel    = & h0002
const MagentaChannel  = & h0002
const BlueChannel     = & h0004
const YellowChannel   = & h0004
const AlphaChannel    = & h0008
const OpacityChannel  = & h0008
const BlackChannel    = & h0020
const IndexChannel    = & h0020
const AllChannels     = & h7fffffff

```

```

const UndefinedChannel = 0
const RedChannel       = & h0001
const GrayChannel     = & h0001
const CyanChannel     = & h0001
const GreenChannel    = & h0002
const MagentaChannel  = & h0002
const BlueChannel     = & h0004
const YellowChannel   = & h0004
const AlphaChannel    = & h0008
const OpacityChannel  = & h0008
const BlackChannel    = & h0020
const IndexChannel    = & h0020
const AllChannels     = & h7fffffff

```

pathname: name of clipping path resource. If name is preceded by # , use clipping path numbered by name.

inside: if true, later operations take effect inside clipping path. Otherwise later operations take effect outside clipping path.

```
const UndefinedChannel = 0
const RedChannel       = & h0001
const GrayChannel      = & h0001
const CyanChannel      = & h0001
const GreenChannel     = & h0002
const MagentaChannel   = & h0002
const BlueChannel      = & h0004
const YellowChannel    = & h0004
const AlphaChannel     = & h0008
const OpacityChannel   = & h0008
const BlackChannel     = & h0020
const IndexChannel     = & h0020
const AllChannels      = & h7ffffff
```

```
const UndefinedChannel = 0
const RedChannel       = & h0001
const GrayChannel      = & h0001
const CyanChannel      = & h0001
const GreenChannel     = & h0002
const MagentaChannel   = & h0002
const BlueChannel      = & h0004
const YellowChannel    = & h0004
const AlphaChannel     = & h0008
const OpacityChannel   = & h0008
const BlackChannel     = & h0020
const IndexChannel     = & h0020
const AllChannels      = & h7ffffff
```

```
const PointFilter      =1
const BoxFilter        =2
const TriangleFilter   =3
const HermiteFilter    =4
const HanningFilter    =5
const HammingFilter    =6
const BlackmanFilter   =7
const GaussianFilter   =8
const QuadraticFilter  =9
const CubicFilter      =10
const CatromFilter     =11
const MitchellFilter   =12
const LanczosFilter    =13
const BesselFilter     =14
const SincFilter       =15
```

UndefinedColorspace	0
RGBColorspace	1
GRAYColorspace	2
TransparentColorspace	3
OHTAColorspace	4
LABColorspace	5
XYZColorspace	6
YCbCrColorspace	7
YCCColorspace	8
YIQColorspace	9
YPbPrColorspace	10
YUVColorspace	11
CMYKColorspace	12
sRGBColorspace	13
HSBColorspace	14
HSLColorspace	15
HWBColorspace	16

const UndefinedChannel	= 0
const RedChannel	= & h0001
const GrayChannel	= & h0001
const CyanChannel	= & h0001
const GreenChannel	= & h0002
const MagentaChannel	= & h0002
const BlueChannel	= & h0004
const YellowChannel	= & h0004
const AlphaChannel	= & h0008
const OpacityChannel	= & h0008
const BlackChannel	= & h0020
const IndexChannel	= & h0020
const AllChannels	= & h7fffffff

UndefinedColorspace	0
RGBColorspace	1
GRAYColorspace	2
TransparentColorspace	3
OHTAColorspace	4
LABColorspace	5
XYZColorspace	6
YCbCrColorspace	7
YCCColorspace	8
YIQColorspace	9
YPbPrColorspace	10
YUVColorspace	11
CMYKColorspace	12
sRGBColorspace	13
HSBColorspace	14
HSLColorspace	15
HWBColorspace	16

const UndefinedChannel	= 0
const RedChannel	= & h0001
const GrayChannel	= & h0001
const CyanChannel	= & h0001
const GreenChannel	= & h0002
const MagentaChannel	= & h0002
const BlueChannel	= & h0004
const YellowChannel	= & h0004
const AlphaChannel	= & h0008
const OpacityChannel	= & h0008
const BlackChannel	= & h0020
const IndexChannel	= & h0020
const AllChannels	= & h7fffffff

WriteImage(info as IMImageInfoMBS) as boolean

method from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Method WriteImage writes an image to a file as defined by image.filename.

Notes:

You can specify a particular image format by prefixing the file with the image type and a colon (i.e. ps:image) or specify the image type as the filename suffix (i.e. image.ps). The image may be modified to adapt it to the requirements of the image format. For example, DirectClass images must be color-reduced to PseudoClass if the format is GIF.

WriteImage returns True if the image is written. False is returned if there is a memory shortage or if the image file fails to write.

2.10.2 Properties

BackgroundColor as IMColorMBS

property from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Image background color.

Notes: (Read and Write property)

Bias as double

property from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: An undocumented property.

Notes: (Read and Write property)

BlurFactor as double

property from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Blur factor to apply to the image when zooming. Default is 1.0 (no blur).

Notes: (Read and Write property)

BorderColor as IMColorMBS

property from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Image border color.

Notes: (Read and Write property)

Colors as Integer

property from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The desired number of colors.

Notes:

Used by Quantize().

(Read and Write property)

ColorSpace as Integer

property from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Image pixel interpretation.

Notes:

If the colorspace is RGB the pixels are red, green, blue. If matte is true, then red, green, blue, and index. If it is CMYK, the pixels are cyan, yellow, magenta, black. Otherwise the colorspace is ignored.

constants:

UndefinedColorspace	0
RGBColorspace	1
GRAYColorspace	2
TransparentColorspace	3
OHTAColorspace	4
LABColorspace	5
XYZColorspace	6
YCbCrColorspace	7
YCCColorspace	8
YIQColorspace	9
YPbPrColorspace	10
YUVColorspace	11
CMYKColorspace	12
sRGBColorspace	13
HSBColorspace	14
HSLColorspace	15
HWBColorspace	16

(Read and Write property)

Compression as Integer

property from class `IMImageMBS`, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Image compression type.

Notes:

useful constants:

The default is the compression type of the specified image file.
For more details please check the ImageMagick documentation.
(Read and Write property)

```

const UndefinedCompression    = 0
const NoCompression          = 1
const BZipCompression        = 2
const FaxCompression         = 3
const Group4Compression      = 4
const JPEGCompression        = 5
const LosslessJPEGCompression = 6
const LZWCompression         = 7
const RLECompression         = 8
const ZipCompression         = 9

```

Depth as Integer

property from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Image depth (8 or 16).

Notes:

QuantumLeap must be defined before a depth of 16 is valid.
(Read and Write property)

Directory as String

property from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Tile names from within an image montage.

Notes:

Only valid after calling MontageImages() or reading a MIFF file which contains a directory.
(Read and Write property)

Endian as Integer

property from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The endian setting to use.

Notes:

constants:

UndefinedEndian	0	
LSBEndian	1	(Windows)
MSBEndian	2	(Mac)

e.g. tiff files support different endian settings.
(Read and Write property)

Filename as String

property from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick),
Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The file path/name.

Notes:

The string must be in the encoding of the library and is limited to 4000 bytes.
For more details please check the ImageMagick documentation.
(Read and Write property)

Filter as Integer

property from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick),
Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Filter to use when resizing image.

Notes:

Constants:

The reduction filter employed has a significant effect on the time required to resize an image and the resulting quality. The default filter is Lanczos which has been shown to produce high quality results when reducing most images.
(Read and Write property)

```

const PointFilter      =1
const BoxFilter        =2
const TriangleFilter   =3
const HermiteFilter    =4
const HanningFilter    =5
const HammingFilter    =6
const BlackmanFilter   =7
const GaussianFilter   =8
const QuadraticFilter  =9
const CubicFilter      =10
const CatromFilter     =11
const MitchellFilter   =12
const LanczosFilter    =13
const BesselFilter     =14
const SincFilter       =15

```

Fuzz as double

property from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Colors within this distance are considered equal.

Notes:

A number of algorithms search for a target color. By default the color must be exact. Use this to match colors that are close to the target color in RGB space.

(Read and Write property)

Gamma as double

property from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Gamma level of the image.

Notes:

The same color image displayed on two different workstations may look different due to differences in the display monitor. Use gamma correction to adjust for this color difference.

(Read and Write property)

Geometry as String

property from class `IMImageMBS`, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Preferred size of the image when encoding.

Notes: (Read and Write property)

Gravity as Integer

property from class `IMImageMBS`, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: An undocumented property.

Notes: (Read and Write property)

Handle as Integer

property from class `IMImageMBS`, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The handle used internally by the plugin.

Notes:

A pointer to an Image structure.

For more details please check the ImageMagick documentation.

(Read and Write property)

Height as integer

property from class `IMImageMBS`, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The height of the image in pixels.

Notes:

For more details please check the ImageMagick documentation.

(Read and Write property)

Interlace as Integer

property from class IImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The type of interlacing scheme (default NoInterlace).

Notes:

This option is used to specify the type of interlacing scheme for raw image formats such as RGB or YUV. NoInterlace means do not interlace, LineInterlace uses scanline interlacing, and PlaneInterlace uses plane interlacing. PartitionInterlace is like PlaneInterlace except the different planes are saved to individual files (e.g. image.R, image.G, and image.B). Use LineInterlace or PlaneInterlace to create an interlaced GIF or progressive JPEG image.

constants:

UndefinedInterlace	0	Unset value.
NoInterlace	1	Don't interlace image (RGBRGBRGBRGBRGB...)
LineInterlace	2	Use scanline interlacing (RRR...GGG...BBB...RRR...GGG...BBB...)
PlaneInterlace	3	Use plane interlacing (RRRRRR...GGGGG...BBBBB...)
PartitionInterlace	4	Similar to plane interlacing except that the different planes are saved to individual files (e.g. image.R, image.G, and image.B)

(Read and Write property)

LastError as Integer

property from class IImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The last error code reported.

Notes:

If an exception is raised and it is not a warning exception, this exception code is saved in this property.

(Read and Write property)

LastException as IMExceptionMBS

property from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The last exception thrown by the Image Magick library.

Notes:

You should check this value after every call to the library, process the error and set the property to nil.

For more details please check the ImageMagick documentation.
(Read and Write property)

LittleEndian as Boolean

property from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 6.5, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Controls whether CopyPicture, CopyPixel, SetPixel, SetPicture will swap colors.

Notes:

Value depends on the compilation settings on the imagemagick library used.
(Read and Write property)

Magick as String

property from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Image encoding format (e.g. "GIF").

Notes: (Read and Write property)

Matte as Boolean

property from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Whether an alpha channel is used/present.

Notes:

Set to true to enable masks.
(Read and Write property)

MatteColor as IMColorMBS

property from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick),
Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Image matte (transparent) color.

Notes: (Read and Write property)

Montage as String

property from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick),
Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Tile size and offset within an image montage. Only valid for montage images.

Notes: (Read and Write property)

Offset as Integer

property from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick),
Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Number of initial bytes to skip over when reading raw image.

Notes: (Read and Write property)

Orientation as Integer

property from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick),
Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The image orientation.

Notes:

constants:

```
const UndefinedOrientation    = 0
const TopLeftOrientation     = 1
const TopRightOrientation    = 2
const BottomRightOrientation = 3
const BottomLeftOrientation  = 4
const LeftTopOrientation     = 5
const RightTopOrientation    = 6
const RightBottomOrientation = 7
const LeftBottomOrientation  = 8
```

For more details please check the ImageMagick documentation.
(Read and Write property)

Quality as Integer

property from class IImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick),
Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: JPEG/MIFF/PNG compression level.

Example:

```
dim im as ImageMagickMBS // global
```

```
Function TestJPEG(f as folderitem) As picture
```

```
// Reads an image, compresses in memory to JPEG, decompresses using JPEGlib and returns the image
```

```
// if quality setting works, you see it in the result.
```

```
// no error checking included!
```

```
// needs: im as ImageMagickMBS ready initialized
```

```
dim image as IImageMBS
```

```
dim imageinfo as IImageInfoMBS
```

```
dim s,blob as string
```

```
dim p as Picture
```

```
dim i as integer
```

```
if f = nil then
```

```
Return nil
```

```
end if
```

```

imageinfo = im.NewImageInfo

# if TargetWin32 then //do not use shellpath, if spaces, IM doesn't like escaped paths
imageinfo.Filename = f.AbsolutePath
# else
imageinfo.Filename = f.UnixpathMBS
# endif

//this should read any image IM understands
image = im.ReadImage(imageinfo)
//check for error
if im.lastexception <>nil and im.LastException.Severity >= 400 then
s = "LastError: " + Format(im.LastError, "-0") + " - Severity: " + str(im.LastException.Severity) + EndOfLine + im.LastException.Message
MsgBox s
Return nil
elseif image = nil then
MsgBox "image=nil"
Return nil
end if

// Now lets convert to jpeg
imageinfo.Filename = "image.jpg"
imageinfo.Quality = 10 // 100 is max
blob = image.ImageToBlob(imageinfo)

// It may fail
if blob.lenb = 0 then
Return nil
end if
p = JPEGStringToPictureMBS(blob,true)

image.DestroyImage
imageinfo.DestroyImageInfo

Return p
Exception
Return nil
End Function

```

Notes:

Default value is 75.
(Read and Write property)

Release as Boolean

property from class `IMImageMBS`, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: If true, the destructor will release the handle.

Notes: (Read and Write property)

RenderingIntent as Integer

property from class `IMImageMBS`, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The rendering intent to use.

Notes:

constants:

<code>UndefinedIntent</code>	0
<code>SaturationIntent</code>	1
<code>PerceptualIntent</code>	2
<code>AbsoluteIntent</code>	3
<code>RelativeIntent</code>	4

(Read and Write property)

ResolutionUnits as Integer

property from class `IMImageMBS`, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Units of image resolution.

Notes:

constants:

(Read and Write property)

UndefinedResolution	0	Unset value.
PixelsPerInchResolution	1	Density specifications are specified in units of pixels per inch (english units).
PixelsPerCentimeterResolution	2	Density specifications are specified in units of pixels per centimeter (metric units).

ResolutionX as double

property from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The horizontal resolution of the image.

Notes:

The unit for resolution must be specified.
For more details please check the ImageMagick documentation.
(Read and Write property)

ResolutionY as double

property from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The vertical resolution of the image.

Notes:

The unit for resolution must be specified.
For more details please check the ImageMagick documentation.
(Read and Write property)

Scene as Integer

property from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: An undocumented property.

Notes: (Read and Write property)

StorageClass as Integer

property from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Image storage class.

Notes:

If DirectClass then the image packets contain valid RGB or CMYK colors. If PseudoClass then the image has a colormap referenced by pixel's index member.

constants:

UndefinedClass	0	Unset value.
DirectClass	1	Image is composed of pixels which represent literal color values.
PseudoClass	2	Image is composed of pixels which specify an index in a color palette.

(Read and Write property)

Taint as Boolean

property from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.2, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Set to True if the image pixels have been modified.

Notes: (Read and Write property)

Width as integer

property from class IMImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The width of the image in pixels.

Notes:

For more details please check the ImageMagick documentation.

(Read and Write property)

2.10.3 Constants

kBackgroundDispose = 2

const from class IImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 8.3, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the Image layer Dispose Types.

kCoalesceLayer = 1

const from class IImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 8.3, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the Image layer method constants.

kCompareAnyLayer = 2

const from class IImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 8.3, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the Image layer method constants.

kCompareClearLayer = 3

const from class IImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 8.3, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the Image layer method constants.

kCompareOverlayLayer = 4

const from class IImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 8.3, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the Image layer method constants.

kCompositeLayer = & h0000000C

const from class IImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 8.3, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the Image layer method constants.

kDisposeLayer = 5

const from class IImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 8.3, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the Image layer method constants.

kFlattenLayer = & h0000000E

const from class IImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 8.3, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the Image layer method constants.

kMergeLayer = & h0000000D

const from class IImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 8.3, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the Image layer method constants.

kMosaicLayer = & h0000000F

const from class IImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 8.3, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the Image layer method constants.

kNoneDispose = 1

const from class IImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 8.3, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the Image layer Dispose Types.

kOptimizeImageLayer = 7

const from class IImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 8.3, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the Image layer method constants.

kOptimizeLayer = 6

const from class IImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 8.3, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the Image layer method constants.

kOptimizePlusLayer = 8

const from class IImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 8.3, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the Image layer method constants.

kOptimizeTransLayer = 9

const from class IImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 8.3, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the Image layer method constants.

kPreviousDispose = 3

const from class IImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 8.3, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the Image layer Dispose Types.

kRemoveDupsLayer = & h0000000A

const from class IImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 8.3, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the Image layer method constants.

kRemoveZeroLayer = & h0000000B

const from class IImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 8.3, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the Image layer method constants.

kUndefinedDispose = 0

const from class IImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 8.3, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the Image layer Dispose Types.

kUndefinedLayer = 0

const from class IImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 8.3, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the Image layer method constants.

kUnrecognizedDispose = 0

const from class IImageMBS, Image Magick, MBS REALbasic ImageMagick Plugin (ImageMagick), Plugin version: 8.3, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: One of the Image layer Dispose Types.

Chapter 3

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