

MBS REALbasic GIF Plugin Documentation

Christian Schmitz

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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 GIF Plugin

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Chapter 2

GIF

2.1 class GifScreenMBS

class GifScreenMBS

class, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 4.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: A class for the gif screen information.

2.1.1 Methods

Clone as GifScreenMBS

method from class GifScreenMBS, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 10.4, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Creates a clone of the object.

2.1.2 Properties

Aspect as Integer

property from class GifScreenMBS, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 4.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The aspect ration of this GIFPictureMBS.

Notes: (Read and Write property)

BackgroundColor as Integer

property from class GifScreenMBS, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 4.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Index of the background color for this GIFPictureMBS.

Notes: (Read and Write property)

ColorResolution as Integer

property from class GifScreenMBS, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 4.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The color resolution of the screen area.

Notes: (Read and Write property)

HasPalette as Boolean

property from class GifScreenMBS, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 10.4, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Whether this screen defines a palette.

Notes: (Read and Write property)

Height as Integer

property from class GifScreenMBS, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 4.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The height of the screen area used.

Notes: (Read and Write property)

Palette as GifPaletteMBS

property from class GifScreenMBS, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 4.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The color palette to use for the screen area used.

Notes: (Read and Write property)

PaletteDepth as Integer

property from class GifScreenMBS, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 4.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The palette depth of the screen area used.

Notes: (Read and Write property)

Sorted as Boolean

property from class GifScreenMBS, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 4.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Whether the color palette is sorted.

Notes: (Read and Write property)

Width as Integer

property from class GifScreenMBS, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 4.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The width of the screen area used.

Notes: (Read and Write property)

2.2 class GifExtensionMBS

class GifExtensionMBS

class, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 4.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: A class for a gif extension.

2.2.1 Methods

Add(data as GifDataMBS)

method from class GifExtensionMBS, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 4.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Adds a data object to this extension.

Clone as GifExtensionMBS

method from class GifExtensionMBS, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 10.4, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Creates a clone of the object.

Data(index as integer) as GifDataMBS

method from class GifExtensionMBS, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 4.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The data of this extension.

Notes: Index is 0 based.

2.2.2 Properties

Count as Integer

property from class GifExtensionMBS, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 4.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Returns the number of data objects attached to this extension.

Notes:

Returns 0 on any error.

(Read only property)

FirstData as GifDataMBS

property from class GifExtensionMBS, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 10.4, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The first data.

Notes:

Same as calling Data(0), but this property is visible in the debugger which makes debugging easier.

(Read only property)

Marker as Integer

property from class GifExtensionMBS, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 4.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The marker field of this extension.

Notes: (Read and Write property)

2.3 class GIFMBS

class GIFMBS

class, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 4.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: A class for reading or writing gif files.

Notes: There are patents on the lzw compression used in this class for writing gif files. This patents may be timeout out for some countries, but please check for your target countries.

2.3.1 Methods

Add(block as GifBlockMBS)

method from class GIFMBS, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 4.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Adds a block to this gif object.

Block(index as integer) as GifBlockMBS

method from class GIFMBS, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 4.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The blocks attached to this gif object.

Notes: Index is 0 based.

Clone as GIFMBS

method from class GIFMBS, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 10.4, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Creates a clone of the object.

MakeFirstMask as picture

method from class GIFMBS, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 4.3, console safe in REAL Studio 2010r3 or newer, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Searches the first picture in this gif object and returns the matching mask.

Notes: Returns nil on any error.

MakeFirstPicture as picture

method from class GIFMBS, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 4.3, console safe in REAL Studio 2010r3 or newer, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Searches the first picture in this gif object and returns this picture.

Notes:

Returns nil on any error.

There is not always a mask available!

MakeFirstPictureWithMask as picture

method from class GIFMBS, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 6.2, console safe in REAL Studio 2010r3 or newer, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Searches the first picture in this gif object and returns this picture with mask (if exists).

Notes:

Returns nil on any error.

There is not always a mask available!

Print(file as folderitem) as boolean

method from class GIFMBS, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 4.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Writes out some debug information about the gif object into a text file.

Notes: Returns true on success.

2.3.2 Properties

Count as Integer

property from class GIFMBS, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 4.3, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Number of blocks attached to this gif object.

Notes:

Not every block has a picture attached, so this is not the picture count.
(Read only property)

FirstBlock as GifBlockMBS

property from class GIFMBS, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 10.4, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The first block.

Notes:

Same as calling Block(0), but this property is visible in the debugger which makes debugging easier.
(Read only property)

Header as String

property from class GIFMBS, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 4.3, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The header string for this gif object.

Notes:

e.g. "GIF89a"
(Read and Write property)

Screen as GifScreenMBS

property from class GIFMBS, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 4.3, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The screen object attached to this gif object.

Notes: (Read and Write property)

2.4 Globals

GifStringToGifMBS(data as string) as GIFMBS

global method, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 5.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Opens a Gif GIFPictureMBS from memory.

Notes:

Returns nil on any error.

Else it should be identical to the folderitem function.

There is a link bug in RB. So if this function always returns nil, you may need a line like "dim g as new GifMBS" to fix it.

GifStringToPictureMBS(data as string) as Picture

global method, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 6.2, console safe in REAL Studio 2010r3 or newer, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Opens a Gif picture from memory and returns first picture with mask.

Notes:

Returns nil on any error.

Not always a mask is available.

There is a link bug in RB. So if this function always returns nil, you may need a line like "dim g as new GifMBS" to fix it.

2.5 class GifBlockMBS

class GifBlockMBS

class, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 4.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: A class for a gif block.

Notes: May have a GIFPictureMBS or an extension, but not both.

2.5.1 Methods

Clone as GifBlockMBS

method from class GifBlockMBS, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 10.4, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Creates a clone of the object.

2.5.2 Properties

Extension as GifExtensionMBS

property from class GifBlockMBS, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 4.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The extension data of this gif block.

Notes: (Read and Write property)

Intro as Integer

property from class GifBlockMBS, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 4.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The intro value of the gif block.

Notes:

The type of data.

(Read and Write property)

Picture as GifPictureMBS

property from class GifBlockMBS, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 4.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The GifPictureMBS data of this gif block.

Notes:

Not all blocks have a picture, so this property can be nil.

(Read and Write property)

2.6 class GifDataMBS

class GifDataMBS

class, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 4.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: A class for binary data in a gif image.

2.6.1 Methods

Clone as GifDataMBS

method from class GifDataMBS, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 10.4, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Creates a clone of the object.

2.6.2 Properties

DataMemory as Memoryblock

property from class GifDataMBS, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 4.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The data as a memoryblock.

Notes: (Read and Write property)

DataString as String

property from class GifDataMBS, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 4.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The data as a string.

Notes: (Read and Write property)

Length as Integer

property from class GifDataMBS, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 4.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The length in bytes of this data.

Notes:

Returns 0 on any error.

(Read only property)

2.7 class GIFPictureMBS

class GIFPictureMBS

class, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 4.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: A class for a gif GIFPictureMBS.

2.7.1 Methods

Clone as GifPictureMBS

method from class GifPictureMBS, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 10.4, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Creates a clone of the object.

CopyData as memoryblock

method from class GifPictureMBS, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 10.4, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Copies the data of this picture object.

Notes: Returns a new memoryblock with a copy of the data so you can modify it.

MakeMask as picture

method from class GIFPictureMBS, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 4.3, console safe in REAL Studio 2010r3 or newer, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Searches the matching mask for this picture and returns it as picture.

Notes: May return nil.

See also:

- 2.7.1 MakeMask(TransparentColorIndex as integer) as picture 18

MakeMask(TransparentColorIndex as integer) as picture

method from class GIFPictureMBS, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 4.3, console safe in REAL Studio 2010r3 or newer, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Creates a mask for this picture based on the current transparent color index.

Notes: Returns nil on low memory.

See also:

- 2.7.1 MakeMask as picture 18

MakePicture as picture

method from class GIFPictureMBS, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 4.3, console safe in REAL Studio 2010r3 or newer, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Reads the picture and returns it.

Notes: Returns nil on any error.

ImageData(row as integer) as memoryblock

method from class GIFPictureMBS, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 4.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The raw Pixel data for a given row.

Notes:

Row is 0 based.

Returns nil on any error.

2.7.2 Properties

Data as Memoryblock

property from class GIFPictureMBS, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 4.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The data of this GIFPictureMBS as a big memoryblock.

Notes: (Read and Write property)

HasPalette as Boolean

property from class GifPictureMBS, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 10.4, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Whether we have a color map (palette).

Notes:

This property was named HasCMap in older plugin versions.

(Read and Write property)

Height as Integer

property from class GIFPictureMBS, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 4.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Height in pixels.

Notes: (Read and Write property)

Interlace as Boolean

property from class GIFPictureMBS, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 4.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Whether the GIFPictureMBS is interlaced.

Notes:

Interlacing makes GIFPictureMBS loading faster in a browser, but requires the newer GIF format 89a. (Read and Write property)

Left as Integer

property from class GIFPictureMBS, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 4.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The x position of the GIFPictureMBS.

Notes:

On an animation gif each GIFPictureMBS may have it's own position. (Read and Write property)

Palette as GifPaletteMBS

property from class GIFPictureMBS, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 4.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The palette for this GIFPictureMBS.

Notes: (Read and Write property)

PaletteDepth as Integer

property from class GIFPictureMBS, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 4.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The depth of the palette of this GIFPictureMBS.

Notes:

Value should be 2, 4, 16 or 256.

(Read and Write property)

Sorted as Boolean

property from class GIFPictureMBS, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 4.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Whether the color palette is sorted.

Notes: (Read and Write property)

Top as Integer

property from class GIFPictureMBS, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 4.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The y position of this GIFPictureMBS.

Notes:

On an animation gif each GIFPictureMBS may have it's own position.

(Read and Write property)

Width as Integer

property from class GIFPictureMBS, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 4.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The width of the GIFPictureMBS in pixels.

Notes: (Read and Write property)

2.8 class GifPaletteMBS

class GifPaletteMBS

class, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 4.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: A class for a color palette.

Example:

```
dim p as new GifPaletteMBS

p.Count = 256

p.Value(0)=& cFFEECC

MsgBox hex(p.red(0))+” ”+hex(p.Green(0))+” ”+hex(p.Blue(0))
```

Notes: Maximum 256 colors.

2.8.1 Methods

Blue(index as integer) as integer

method from class GifPaletteMBS, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 4.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The array of the blue color components in this color palette.

Example:

```
dim p as new GifPaletteMBS

p.Count = 1
p.Value(0)=& cFFEECC
```

```
MsgBox str(p.blue(0))
```

Notes:

Index from 0 to count-1. (ignores bad indexes)
Value from 0 to 255.
(Read and Write computed property)

Clone as GifPaletteMBS

method from class GifPaletteMBS, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 10.4, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: Creates a clone of the object.

Green(index as integer) as integer

method from class GifPaletteMBS, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 4.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The array of the green color components in this color palette.

Example:

```
dim p as new GifPaletteMBS
```

```
p.Count = 1  
p.Value(0)=&cFFEECC
```

```
MsgBox str(p.green(0))
```

Notes:

Index from 0 to count-1. (ignores bad indexes)
Value from 0 to 255.
(Read and Write computed property)

Red(index as integer) as integer

method from class GifPaletteMBS, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 4.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The array of the red color components in this color palette.

Example:

```
dim p as new GifPaletteMBS
```

```
p.Count = 1  
p.Value(0)=& cFFEECC
```

```
MsgBox str(p.red(0))
```

Notes:

Index from 0 to count-1. (ignores bad indexes)

Value from 0 to 255.

(Read and Write computed property)

Value(index as integer) as color

method from class GifPaletteMBS, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 4.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The colors in this palette.

Example:

```
dim p as new GifPaletteMBS
```

```
p.Count = 1  
p.Value(0)=& cFFEECC
```

```
MsgBox hex(p.value(0))
```

Notes:

Index from 0 to count-1. (ignores bad indexes)
(Read and Write computed property)

2.8.2 Properties

Count as Integer

property from class GifPaletteMBS, GIF, MBS REALbasic GIF Plugin (GIF), Plugin version: 4.3, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

Function: The number of colors in this palette.

Example:

```
dim p as new GifPaletteMBS
```

```
p.Count = 256
```

Notes:

Value is 2, 4, 16 or 256.
(Read and Write property)

Chapter 3

List of all classes

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