

MBS Real Studio GIF Plugin Documentation

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0.1 Introduction

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

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Chapter 2

GIF

2.1 class GifScreenMBS

class GifScreenMBS

Plugin Version: 4.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** A class for the gif screen information.

2.1.1 Methods

Clone as GifScreenMBS

Plugin Version: 10.4 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Creates a clone of the object.

2.1.2 Properties

Aspect as Integer

Plugin Version: 4.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The aspect ration of this GIFPictureMBS.

Notes: (Read and Write property)

BackgroundColor as Integer

Plugin Version: 4.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Index of the background color for this GIFPictureMBS.

Notes: (Read and Write property)

ColorResolution as Integer

Plugin Version: 4.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The color resolution of the screen area.

Notes: (Read and Write property)

HasPalette as Boolean

Plugin Version: 10.4 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Whether this screen defines a palette.

Notes: (Read and Write property)

Height as Integer

Plugin Version: 4.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The height of the screen area used.

Notes: (Read and Write property)

Palette as GifPaletteMBS

Plugin Version: 4.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The color palette to use for the screen area used.

Notes: (Read and Write property)

PaletteDepth as Integer

Plugin Version: 4.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The palette depth of the screen area used.

Notes: (Read and Write property)

Sorted as Boolean

Plugin Version: 4.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Whether the color palette is sorted.

Notes: (Read and Write property)

Width as Integer

Plugin Version: 4.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The width of the screen area used.

Notes: (Read and Write property)

2.2 class GifExtensionMBS

class GifExtensionMBS

Plugin Version: 4.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** A class for a gif extension.

2.2.1 Methods

Add(data as GifDataMBS)

Plugin Version: 4.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Adds a data object to this extension.

Clone as GifExtensionMBS

Plugin Version: 10.4 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Creates a clone of the object.

Data(index as integer) as GifDataMBS

Plugin Version: 4.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The data of this extension.

Notes: Index is 0 based.

2.2.2 Properties

Count as Integer

Plugin Version: 4.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Returns the number of data objects attached to this extension.

Notes:

Returns 0 on any error.
(Read only property)

FirstData as GifDataMBS

Plugin Version: 10.4 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **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

Plugin Version: 4.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The marker field of this extension.

Notes: (Read and Write property)

2.3 class GIFMBS

class GIFMBS

Plugin Version: 4.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **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)

Plugin Version: 4.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Adds a block to this gif object.

Block(index as integer) as GifBlockMBS

Plugin Version: 4.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The blocks attached to this gif object.

Notes: Index is 0 based.

Clone as GIFMBS

Plugin Version: 10.4 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Creates a clone of the object.

MakeFirstMask as picture

Plugin Version: 4.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Searches the first picture in this gif object and returns the matching mask.

Notes: Returns nil on any error.

MakeFirstPicture as picture

Plugin Version: 4.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **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

Plugin Version: 6.2 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **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!

2.3.2 Properties

Count as Integer

Plugin Version: 4.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **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

Plugin Version: 10.4 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **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

Plugin Version: 4.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The header string for this gif object.

Notes:

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

Screen as GifScreenMBS

Plugin Version: 4.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The screen object attached to this gif object.

Notes: (Read and Write property)

2.4 Globals

GifStringToGifMBS(data as string) as GIFMBS

Plugin Version: 5.1 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **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

Plugin Version: 6.2 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **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

Plugin Version: 4.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **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

Plugin Version: 10.4 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Creates a clone of the object.

2.5.2 Properties

Extension as GifExtensionMBS

Plugin Version: 4.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The extension data of this gif block.

Notes: (Read and Write property)

Intro as Integer

Plugin Version: 4.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The intro value of the gif block.

Notes:

The type of data.

(Read and Write property)

Picture as GifPictureMBS

Plugin Version: 4.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **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

Plugin Version: 4.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** A class for binary data in a gif image.

2.6.1 Methods

Clone as GifDataMBS

Plugin Version: 10.4 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Creates a clone of the object.

2.6.2 Properties

DataMemory as Memoryblock

Plugin Version: 4.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The data as a memoryblock.

Notes: (Read and Write property)

DataString as String

Plugin Version: 4.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The data as a string.

Notes: (Read and Write property)

Length as Integer

Plugin Version: 4.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The length in bytes of this data.

Notes:

Returns 0 on any error.
(Read only property)

2.7 class GIFPictureMBS

class GIFPictureMBS

Plugin Version: 4.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** A class for a gif GIFPictureMBS.

2.7.1 Methods

Clone as GifPictureMBS

Plugin Version: 10.4 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Creates a clone of the object.

CopyData as memoryblock

Plugin Version: 10.4 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **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

Plugin Version: 4.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **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 16

MakeMask(TransparentColorIndex as integer) as picture

Plugin Version: 4.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **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 15

MakePicture as picture

Plugin Version: 4.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Reads the picture and returns it.

Notes: Returns nil on any error.

PixelData(row as integer) as memoryblock

Plugin Version: 4.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **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

Plugin Version: 4.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The data of this GIFPictureMBS as a big memoryblock.

Notes: (Read and Write property)

HasPalette as Boolean

Plugin Version: 10.4 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **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

Plugin Version: 4.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Height in pixels.

Notes: (Read and Write property)

Interlace as Boolean

Plugin Version: 4.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **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

Plugin Version: 4.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **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

Plugin Version: 4.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The palette for this GIFPictureMBS.

Notes: (Read and Write property)

PaletteDepth as Integer

Plugin Version: 4.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **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

Plugin Version: 4.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Whether the color palette is sorted.

Notes: (Read and Write property)

Top as Integer

Plugin Version: 4.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **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

Plugin Version: 4.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The width of the GIFPictureMBS in pixels.

Notes: (Read and Write property)

2.8 class GifPaletteMBS

class GifPaletteMBS

Plugin Version: 4.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **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

Plugin Version: 4.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **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

Plugin Version: 10.4 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Creates a clone of the object.

Green(index as integer) as integer

Plugin Version: 4.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **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

Plugin Version: 4.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **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

Plugin Version: 4.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **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

Plugin Version: 4.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **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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Chapter 4

List of all global methods

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