

MBS Real Studio LCMS 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 LCMS Plugin

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Chapter 2

LCMS

2.1 class CProfileMBS

`class CProfileMBS`

Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** A class for a profile.

2.1.1 Methods

`AddTag(TagSignature as integer, data as string)` as boolean

Plugin Version: 3.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Adds a tag to the profile.

Notes:

Data is used as a C String, so don't use `chr(0)` inside.
Returns false on any error.

CalibrationDateTime as CDateMBS

Plugin Version: 6.5 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Returns calibration data and time.

Notes: Nil on any error.

ChannelCount as Integer

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The channel count for this profile.

Notes: Should be 3 for RGB and 4 for CMYK.

close

Plugin Version: 3.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **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.)

Colorants as CMCIXYZTRIPLEMBS

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** This function takes the value of colorant matrix of hProfile if present.

Notes:

Some profiles includes colorants even if a CLUT is already present.

Often this colorants are private values, or a way to allow the profile operate in reverse direction.

Returns nil on any error.

ColorSpaceType as Integer

Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The ColorSpace type of the profile.
Notes:

The list of Colorspace signatures:

SigXYZData	& h58595A20L	'XYZ '
SigLabData	& h4C616220L	'Lab '
SigLuvData	& h4C757620L	'Luv '
SigYCbCrData	& h59436272L	'YCbCr'
SigYxyData	& h59787920L	'Yxy '
SigRgbData	& h52474220L	'RGB '
SigGrayData	& h47524159L	'GRAY'
SigHsvData	& h48535620L	'HSV '
SigHlsData	& h484C5320L	'HLS '
SigCmykData	& h434D594BL	'CMYK'
SigCmyData	& h434D5920L	'CMY '
Sig2colorData	& h32434C52L	'2CLR'
Sig3colorData	& h33434C52L	'3CLR'
Sig4colorData	& h34434C52L	'4CLR'
Sig5colorData	& h35434C52L	'5CLR'
Sig6colorData	& h36434C52L	'6CLR'
Sig7colorData	& h37434C52L	'7CLR'
Sig8colorData	& h38434C52L	'8CLR'
Sig9colorData	& h39434C52L	'9CLR'
Sig10colorData	& h41434C52L	'A CLR'
Sig11colorData	& h42434C52L	'B CLR'
Sig12colorData	& h43434C52L	'C CLR'
Sig13colorData	& h44434C52L	'D CLR'
Sig14colorData	& h45434C52L	'E CLR'
Sig15colorData	& h46434C52L	'F CLR'

(Read and Write computed property)

Constructor

Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Creates an empty profile where you can add values.

Notes: Same as CreateNULLProfile in the LCMS module.

Copyright as String

Plugin Version: 6.5 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The copyright string of the profile.

Notes: Value is "" on any error. Encoding is set to ASCII.

CreationDateTime as CDateMBS

Plugin Version: 6.5 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Returns creation data and time.

Notes: Nil on any error.

Description as string

Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The Description of the profile.

Notes: Value is "" on any error. Encoding is set to ASCII.

DeviceClass as integer

Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The DeviceClass of the profile.

Notes:

The Device class signatures:

SigInputClass	& h73636E72	'scnr'
SigDisplayClass	& h6D6E7472	'mnr'
SigOutputClass	& h70727472	'prtr'
SigLinkClass	& h6C696E6B	'link'
SigAbstractClass	& h61627374	'abst'
SigColorSpaceClass	& h73706163	'spac'
SigNamedColorClass	& h6e6d636c	'nmcl'

(Read and Write computed property)

HeaderAttributes as Integer

Plugin Version: 6.5 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The attributes field of the ICC profile header.

Notes: (Read and Write computed property)

HeaderFlags as Integer

Plugin Version: 6.5 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The flags field of the ICC profile header.

Notes: (Read and Write computed property)

Illuminant as CMCIEXYZMBS

Plugin Version: 3.4 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The Illuminant point.

Notes: Returns nil on any error.

Info as string

Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The Info string of the profile.

Notes: Value is "" on any error. Encoding is set to ASCII.

IsIntentSupported(Intent as integer, UsedDirection as integer) as boolean

Plugin Version: 6.5 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** This one helps on inquiring if a determinate intent is supported by an opened profile.

Notes:

You must have a valid profile object, the intent and a parameter specifying how the profile would be used. The function does return true if intent is supported or false if not. If the intent is not supported, lcms will use default intent (usually perceptual).

Constants for Intent:

```

INTENT_PERCEPTUAL           = 0
INTENT_RELATIVE_COLORIMETRIC = 1
INTENT_SATURATION             = 2
INTENT_ABSOLUTE_COLORIMETRIC = 3

```

Direction:

```

LCMS_USED_AS_INPUT    = 0
LCMS_USED_AS_OUTPUT   = 1
LCMS_USED_AS_PROOF    = 2

```

Returns:

True if intent is supported or false if not.

If the intent is not supported, lcms will use default intent (usually perceptual).

IsTagPresent(tag as integer) as boolean

Plugin Version: 3.4 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Returns true if the given tag is found in the tag list.

Notes: Returns false on any error.

Manufacturer as String

Plugin Version: 6.5 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The manufacturer string of the profile.

Notes: Value is "" on any error. Encoding is set to ASCII.

MediaBlackPoint as CMCIEXYZMBS

Plugin Version: 3.4 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The media black point.

Example:

```

// find system profile and get black point
dim displayProfile as folderitem

```

```

If TargetMacOS Then
displayProfile = GetSystemColorSyncProfileMBS.Location.Path
Else
displayProfile = GetWindowsColorProfileMBS
End if
dim profile as cmprofileMBS = LCMSMBS.OpenProfileFromFile(displayProfile)
dim wp as CMCIEXYZMBS = profile.MediaBlackPoint

```

Notes:

Returns nil on any error.
(not all profile versions define this tag.)
(Read and Write computed property)

MediaWhitePoint as CMCIEXYZMBS

Plugin Version: 3.4 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The media white point.

Example:

```

// find system profile and get white point
dim displayProfile as folderitem
If TargetMacOS Then
displayProfile = GetSystemColorSyncProfileMBS.Location.Path
Else
displayProfile = GetWindowsColorProfileMBS
End if
dim profile as cmprofileMBS = LCMSMBS.OpenProfileFromFile(displayProfile)
dim wp as CMCIEXYZMBS = profile.MediaWhitePoint

```

Notes:

Returns nil on any error.
(not all profile versions define this tag.)
(Read and Write computed property)

Model as String

Plugin Version: 6.5 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The model string of the profile.

Notes: Value is "" on any error. Encoding is set to ASCII.

name as string

Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The name of the profile.

Notes: Value is "" on any error. Encoding is set to ASCII.

PCS as Integer

Plugin Version: 6.5 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The PCS field used in the Profile header.

Notes: (Read and Write computed property)

PostScriptCRD(intent as integer, flags as integer=0) as string

Plugin Version: 3.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Returns the profile as a PostScript CRD.

Notes:

Returns "" on any error.

Added flags parameter in plugin version 6.5.

PostScriptCSA(intent as integer) as string

Plugin Version: 3.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Returns the profile as a PostScript CSA.

Notes: Returns "" on any error.

ProfileICCversion as Integer

Plugin Version: 6.5 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Returns the ICC version as stated in the header of the profile.

Notes:

Examples values:

V2 profiles: & h2000000

V4 profiles: & h4000000

(Read and Write computed property)

ProfileID as string

Plugin Version: 6.5 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The 16-bytes profile ID (version 4 only).

Notes: (Read and Write computed property)

ReadICCGamma(icTagSignature as integer) as CMGammaMBS

Plugin Version: 3.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Reads a ICC Gamma object from the profile.

Example:

```
'get display profile
dim displayProfile as folderitem
If TargetMacOS Then
displayProfile = GetSystemColorSyncProfileMBS.Location.Path
Else
displayProfile = GetWindowsColorProfileMBS
End if
dim profile as cmprofileMBS = LCMSMBS.OpenProfileFromFile(displayProfile)

'then whitepoint reference values & gamma for calculations
dim wp as CMCIEXYZMBS = profile.MediaWhitePoint

const icSigRedTRCTag=& h72545243
const icSigGreenTRCTag=& h67545243
const icSigBlueTRCTag=& h62545243
const icSigGrayTRCTag=& h6b545243

dim gammaTable as CMGammaMBS
```

```

gammaTable = profile.ReadICCGamma(icSigRedTRCTag)
if gammaTable<>nil then MsgBox "red gamma: "+str(gammaTable.EstimateGamma)

gammaTable = profile.ReadICCGamma(icSigGreenTRCTag)
if gammaTable<>nil then MsgBox "green gamma: "+str(gammaTable.EstimateGamma)

gammaTable = profile.ReadICCGamma(icSigBlueTRCTag)
if gammaTable<>nil then MsgBox "blue gamma: "+str(gammaTable.EstimateGamma)

gammaTable = profile.ReadICCGamma(icSigGrayTRCTag)
if gammaTable<>nil then MsgBox "gray gamma: "+str(gammaTable.EstimateGamma)

```

Notes: You need to pass the correct ic tag signature.

ReadICCGammaReversed(icTagSignature as integer) as CMGammaMBS

Plugin Version: 3.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Reads a ICC Gamma object from the profile.

RenderingIntent as integer

Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The RenderingIntent of the profile.
Notes:

Modes:

- 0 Perceptual
- 1 Colorimetric
- 2 Saturation
- 3 Absolute

(Read and Write computed property)

SaveProfile(filename as folderitem) as boolean

Plugin Version: 3.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Saves the profile into a file.

Notes:

Returns false on any error.

Since version 8.7 the filename parameter is a folderitem instead of a string. Pass UnixPathMBS in older versions.

SaveProfileToMemory as Memoryblock

Plugin Version: 3.4 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Saves the profile to a memoryblock.

Notes: Returns nil on any error.

SaveProfileToString as string

Plugin Version: 3.4 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Saves the profile to a string.

Notes: Returns "" on any error.

TagCount as Integer

Plugin Version: 3.4 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The number of tags in this profile.

Notes: Returns 0 on any error.

TagMemory(index as integer) as memoryblock

Plugin Version: 3.4 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The Tag Data as a memoryblock.

Notes: Returns nil on any error.

TagName(index as integer) as integer

Plugin Version: 3.4 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The tag signature for the tag with the given index.

Notes: Returns 0 on any error.

TagSignature(index as integer) as Integer

Plugin Version: 6.5 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Returns the tag signature of the tag with the given index.

Notes: Index is 0 based.

TagSize(index as integer) as integer

Plugin Version: 3.4 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The size of the tag at the given index.

Notes: Returns 0 on any error.

TagString(index as integer) as string

Plugin Version: 3.4 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The Tag Data as a string.

Notes: Returns "" on any error.

TargetDataMemory as memoryblock

Plugin Version: 3.4 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Retrieves the target data the profiler has used to build the profile.

Notes:

Usage of this tag is optional.
Returns nil on any error.

TargetDataString as string

Plugin Version: 3.4 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Retrieves the target data the profiler has used to build the profile.
Notes:

Usage of this tag is optional.
Returns "" on any error.

Version as Integer

Plugin Version: 3.4 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Returns the version value for this profile.
Notes: Returns 0 on any error.

2.1.2 Properties

File as folderitem

Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The file where this profile was loaded from.
Notes: (Read and Write property)

Handle as Integer

Plugin Version: 3.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The handle to the profile object.
Notes: (Read and Write property)

ProfileType as Integer

Plugin Version: 3.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The type of the profile.

Notes:

This value can be 0.
(Read and Write property)

2.2 class CMatrixMBS

class CMatrixMBS

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The LCMS class for a matrix.

2.2.1 Methods

Constructor(v1 as CMVectorMBS=nil, v2 as CMVectorMBS=nil, v3 as CMVectorMBS=nil)

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The constructor to create a new matrix.

Value(index as integer) as CMVectorMBS

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The value of the vector in this matrix at the given position.

Notes:

index is from 0 to 2.
(Read and Write computed property)

2.3 class CMJChMBS

class CMJChMBS

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The class for a JCh color value.

2.3.1 Methods

Constructor(J as double=0.0, C as double=0.0, h as double=0.0)

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The constructor to create a new JCh color.

2.3.2 Properties

C as Double

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The C value of this JCh color.

Notes: (Read and Write property)

h as Double

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The h value of this JCh color.

Notes: (Read and Write property)

J as Double

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The J value of this JCh color.

Notes: (Read and Write property)

2.4 class CMCIELChMBS

class CMCIELChMBS

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The class for a LCh color value.

2.4.1 Methods

Constructor(L as double=0.0, C as double=0.0, h as double=0.0)

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The constructor to create a new LCh color.

Lab as CMCIELabMBS

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Convert between polar/rectangulat form of CIE L*a*b*.

Notes:

Rules:

$$\begin{aligned} L &= L \\ C &= \sqrt{a^2 + b^2} \\ h &= \text{atan}(b/a) \end{aligned}$$

Where C=colorfulness and h=hue.

2.4.2 Properties

C as Double

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The c value of this LCH color.

Notes: (Read and Write property)

h as Double

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The h value of this LCH color.

Notes: (Read and Write property)

L as Double

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The l value of this LCH color.

Notes: (Read and Write property)

2.5 class CMCIExyYMBS

class CMCIExyYMBS

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The class for a xyY color value.

2.5.1 Methods

Constructor(X as double=0.0, Y as double=0.0, YY as double=0.0)

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The constructor to create a new xyY color.

XYZ as CMCIEXYZMBS

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Does convert form/to XYZ Color Space to xyY color space.

2.5.2 Properties

x as Double

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The x value of this xyY color.

Notes: (Read and Write property)

y as Double

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The y value of this xyY color.

Notes: (Read and Write property)

YY as Double

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The Y value of this xyY color.

Notes:

As REALbasic is case insensitive on variable names, this variable is not named Y, but YY. In C this variable

is named Y while the y value is named y.
(Read and Write property)

2.6 class CMBitmapMBS

class CMBitmapMBS

Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** A class for a bitmap.

Notes:

Inside a memoryblock the Pixels are stored in 16bit words.

You can create it yourself if you set all properties correctly or using the functions CreateCMBitmapFromPicture and NewCMBitmap.

2.6.1 Methods

Invert

Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Inverts the bitmap data.

Notes: Requires correct settings for rowbytes, height and data properties.

Picture as Picture

Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Creates a picture from the CMBitmapMBS.

Notes:

From a 16bit picture to a Realbasic picture with 8 bit per Pixel you certainly loose some precision.
Requires correct settings for rowbytes, width, height and data properties.

2.6.2 Properties

ColorSpaceType as integer

Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The Signature of the Colorspace.
Notes:

The list of Colorspace signatures:

SigXYZData	& h58595A20L	'XYZ '
SigLabData	& h4C616220L	'Lab '
SigLuvData	& h4C757620L	'Luv '
SigYCbCrData	& h59436272L	'YCbCr'
SigYxyData	& h59787920L	'Yxy '
SigRgbData	& h52474220L	'RGB '
SigGrayData	& h47524159L	'GRAY'
SigHsvData	& h48535620L	'HSV '
SigHlsData	& h484C5320L	'HLS '
SigCmykData	& h434D594BL	'CMYK'
SigCmyData	& h434D5920L	'CMY '
Sig2colorData	& h32434C52L	'2CLR'
Sig3colorData	& h33434C52L	'3CLR'
Sig4colorData	& h34434C52L	'4CLR'
Sig5colorData	& h35434C52L	'5CLR'
Sig6colorData	& h36434C52L	'6CLR'
Sig7colorData	& h37434C52L	'7CLR'
Sig8colorData	& h38434C52L	'8CLR'
Sig9colorData	& h39434C52L	'9CLR'
Sig10colorData	& h41434C52L	'A CLR'
Sig11colorData	& h42434C52L	'B CLR'
Sig12colorData	& h43434C52L	'C CLR'
Sig13colorData	& h44434C52L	'D CLR'
Sig14colorData	& h45434C52L	'E CLR'
Sig15colorData	& h46434C52L	'F CLR'

(Read and Write property)

Data as Memoryblock

Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The binary data for the pixels stored in 16bit words.

Notes: (Read and Write property)

Height as integer

Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The height of the Bitmap in Pixels.
Notes: (Read and Write property)

RowBytes as integer

Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The number of bytes in one row.
Notes:

Normally: $\text{rowbytes} = \text{pixelsize} * \text{width} + \text{padding}$
Where padding is some extra bytes.
(Read and Write property)

Width as integer

Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The width of the Bitmap in Pixels.
Notes: (Read and Write property)

2.7 class CMCIELabMBS

class CMCIELabMBS

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The class for a Lab color value.

2.7.1 Methods

BFDdeltaE(Other as CMCIELabMBS) as double

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Computes the dE between two Lab values.

CIE2000DeltaE(Other as CMCIELabMBS, Kl as double, Kc as double, Kh as double) as double

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Computes the dE between two Lab values.

CIE94DeltaE(Other as CMCIELabMBS) as double

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Computes the dE between two Lab values.

CMCdeltaE(Other as CMCIELabMBS) as double

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Computes the dE between two Lab values.

Constructor(L as double=0.0, a as double=0.0, b as double=0.0)

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The constructor to create a new Lab color.

DeltaE(Other as CMCIELabMBS) as double

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Computes the dE between two Lab values.

Notes: The formula is $dE = \sqrt{dL^2 + da^2 + db^2}$

LCh as CMCIELChMBS

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Convert between polar/rectangulat form of CIE L*a*b*.

Notes:

Rules:

$L = L$

$C = \sqrt{a^2 + b^2}$

$h = \text{atan}(b/a)$

Where C=colorfulness and h=hue.

XYZ(whitePoint as CMCIEXYZMBS=nil) as CMCIEXYZMBS

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Does convert from/to XYZ Color Space to CIE L a* b* Color Space.

Notes: WhitePoint: the media white point. If nil, the D50 is assumed.

2.7.2 Properties**A as Double**

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The a value of this LAB color.

Notes: (Read and Write property)

B as Double

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The b value of this LAB color.

Notes: (Read and Write property)

L as Double

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The l value of this LAB color.

Notes: (Read and Write property)

2.8 class CDateMBS

class CDateMBS

Plugin Version: 6.5 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The class for a time and date in LCMS.

2.8.1 Properties

Day as Integer

Plugin Version: 6.5 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Day of month in range 1 to 31

Notes: (Read only property)

Daylight as Integer

Plugin Version: 6.5 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Whether daylight saving time is enabled or disabled.

Notes: (Read only property)

DayOfWeek as Integer

Plugin Version: 6.5 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Day of week in range 0 to 6 with 0 = Sunday.

Notes: (Read only property)

DayOfYear as Integer

Plugin Version: 6.5 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Day of year in range 0 to 365

Notes: (Read only property)

Hour as Integer

Plugin Version: 6.5 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The hour in range 0 to 23.

Notes: (Read only property)

Minute as Integer

Plugin Version: 6.5 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Minutes in range 0 to 59.

Notes: (Read only property)

Month as Integer

Plugin Version: 6.5 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Month in range 0 to 11 with 0 = January

Notes: (Read only property)

Second as Integer

Plugin Version: 6.5 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Seconds in range 0 to 59.

Notes: (Read only property)

Year as Integer

Plugin Version: 6.5 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Year less 1900.

Notes: (Read only property)

2.9 class CMGammaMBS

class CMGammaMBS

Plugin Version: 3.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** A class for a gamma table.

Example:

```
'get display profile
dim displayProfile as folderitem
If TargetMacOS Then
displayProfile = GetSystemColorSyncProfileMBS.Location.Path
Else
displayProfile = GetWindowsColorProfileMBS
End if
dim profile as cmprofileMBS = LCMSMBS.OpenProfileFromFile(displayProfile)

'then whitepoint reference values & gamma for calculations
dim wp as CMCIEXYZMBS = profile.MediaWhitePoint

const icSigRedTRCTag=& h72545243
const icSigGreenTRCTag=& h67545243
const icSigBlueTRCTag=& h62545243
const icSigGrayTRCTag=& h6b545243

dim gammaTable as CMGammaMBS

gammaTable = profile.ReadICCGamma(icSigRedTRCTag)
if gammaTable<>nil then MsgBox "red gamma: " +str(gammaTable.EstimateGamma)

gammaTable = profile.ReadICCGamma(icSigGreenTRCTag)
if gammaTable<>nil then MsgBox "green gamma: " +str(gammaTable.EstimateGamma)

gammaTable = profile.ReadICCGamma(icSigBlueTRCTag)
if gammaTable<>nil then MsgBox "blue gamma: " +str(gammaTable.EstimateGamma)

gammaTable = profile.ReadICCGamma(icSigGrayTRCTag)
```

```
if gammaTable<>nil then MsgBox "gray gamma: "+str(gammaTable.EstimateGamma)
```

2.9.1 Methods

close

Plugin Version: 3.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The destructor.
Notes:

There is no need to call this method except you want to free all resources of 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.)

Copy as CMGammaMBS

Plugin Version: 3.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Copies the values into a new gamma object.

Notes: Returns nil on any error.

CopyData as MemoryBlock

Plugin Version: 3.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Creates a copy memoryblock with the content of the object's handle.

Notes:

Create a copy of the
 Returns nil on any error.

Data as MemoryBlock

Plugin Version: 3.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** A memoryblock pointing to the content of the object's handle.

Notes:

The memoryblock returned has size=0 in the property.

As you are working with the original data, be carefull!

There is no bounds checking for this memoryblock and it will be useless if the CMGammaMBS object is destroyed.

Returns nil on any error.

EstimateGamma as double

Plugin Version: 3.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Estimates the gamma value.

GammaValue(index as integer) as integer

Plugin Version: 6.5 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The values of the gamma table.

Notes:

Values are 16bit unsigned integers, so multiply floats with 65536.
(Read and Write computed property)

JoinGamma(out as CMGammaMBS) as CMGammaMBS

Plugin Version: 3.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Joins two gamma tables.

Notes: Returns nil on any error.

JoinGammaEx(out as CMGammaMBS, nPoints as integer) as CMGammaMBS

Plugin Version: 3.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Joins two gamma tables.

Notes: Returns nil on any error.

ReverseGamma(nResultSamples as integer) as CMGammaMBS

Plugin Version: 3.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Reverses the gamma values.

Notes: Returns nil on any error.

SmoothGamma(lambda as double) as boolean

Plugin Version: 3.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The Gamma table is changed to look better for an human eye.

Notes: Returns false on any error.

2.9.2 Properties**CRC32 as Integer**

Plugin Version: 6.5 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Calculates CRC32 checksum about gamma values.

Example:

```
dim a,b as CMGammaMBS
'... fill a and b
if (a.crc32<>b.crc32) then
' a is not equal to b
else
' a may be equal to b or not
' so compare them value or value.
end if
```

Notes:

A hash value to know whether two gamma tables may be different.
(Read only property)

Entries as Integer

Plugin Version: 6.5 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The number of entries in the gamma table.

Notes: (Read only property)

Handle as Integer

Plugin Version: 3.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The handle to the Gamma Table.

Notes: (Read only property)

2.10 class CMCIEXYZMBS

class CMCIEXYZMBS

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The class for a XYZ color value.

2.10.1 Methods

Constructor(x as double=0.0, y as double=0.0, z as double=0.0)

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The constructor to create a new XYZ color.

Lab(whitePoint as CMCIEXYZMBS=nil) as CMCIELabMBS

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Does convert from/to XYZ Color Space to CIE L a* b* Color Space.

Notes: WhitePoint: the media white point. If nil, the D50 is assumed.

xyY as CMCIExyYMBS

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Does convert from/to XYZ Color Space to xyY color space.

2.10.2 Properties**x as Double**

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The x value of this XYZ color.

Notes: (Read and Write property)

y as Double

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The y value of this XYZ color.

Notes: (Read and Write property)

z as Double

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The z value of this XYZ color.

Notes: (Read and Write property)

2.11 class CMCIExyYTRIPLEMBS**class CMCIExyYTRIPLEMBS**

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The class for a CMCIExyYMBS triple.

2.11.1 Methods

Constructor(Red as `CMCIExyYMBS=nil`, Green as `CMCIExyYMBS=nil`, Blue as `CMCIExyYMBS=nil`)

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The constructor to create a new `xyY` color triple.

2.11.2 Properties

Blue as `CMCIExyYMBS`

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The blue color value.

Notes: (Read and Write property)

Green as `CMCIExyYMBS`

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The green color value.

Notes: (Read and Write property)

Red as `CMCIExyYMBS`

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The red color value.

Notes: (Read and Write property)

2.12 class `CMCIEXYZTRIPLEMBS`

class `CMCIEXYZTRIPLEMBS`

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The class to hold a `CMCIEXYZMBS` triple.

2.12.1 Methods

Constructor(Red as CMCIEXYZMBS=nil, Green as CMCIEXYZMBS=nil, Blue as CMCIEXYZMBS=nil)

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The constructor to create a new XYZ triple.

2.12.2 Properties

Blue as CMCIEXYZMBS

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The blue color point.

Notes: (Read and Write property)

Green as CMCIEXYZMBS

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The green color point.

Notes: (Read and Write property)

Red as CMCIEXYZMBS

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The red color point.

Notes: (Read and Write property)

2.13 module LCMSMBS

module LCMSMBS

Plugin Version: 6.5 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The module with all the Little CMS functions and constants.

2.13.1 Methods

AllocateGamma(nEntries as integer) as CMGammaMBS

Plugin Version: 3.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Allocates an empty gamma table.

Notes: Returns nil on any error.

BFDdeltaE(Lab1 as CMCIELabMBS, Lab2 as CMCIELabMBS) as double

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Computes the dE between two Lab values.

BuildGamma(nEntries as integer, gamma as double) as CMGammaMBS

Plugin Version: 3.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Creates a new gamma table.

Notes: Returns nil on any error.

BuildParametricGamma(nEntries as integer, type as integer, mem as memoryblock) as CMGammaMBS

Plugin Version: 6.5 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Creates a new gamma table.

Notes: Returns nil on any error.

BytesShift(x as integer) as integer

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** A helper function to calculate the bytes value of the pixelformat.

Notes:

The format of pixel is defined by one DWORD, using bit fields as follows
D TTTTT U Y F P X S EEE CCCC BBB

D: Use dither (8 bits only)
T: Pixeltype
F: Flavor 0=MinIsBlack(Chocolate) 1=MinIsWhite(Vanilla)
P: Planar? 0=Chunky, 1=Planar
X: swap 16 bps endianness?
S: Do swap? ie, BGR, KYMC
E: Extra samples
C: Channels (Samples per pixel)
B: Bytes per sample
Y: Swap first - changes ABGR to BGRA and KCMY to CMYK

ChannelShift(x as integer) as integer

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** A helper function to calculate the channel value of the pixelformat.

Notes:

The format of pixel is defined by one DWORD, using bit fields as follows
D TTTTT U Y F P X S EEE CCCC BBB

D: Use dither (8 bits only)
T: Pixeltype
F: Flavor 0=MinIsBlack(Chocolate) 1=MinIsWhite(Vanilla)
P: Planar? 0=Chunky, 1=Planar
X: swap 16 bps endianness?
S: Do swap? ie, BGR, KYMC
E: Extra samples
C: Channels (Samples per pixel)
B: Bytes per sample
Y: Swap first - changes ABGR to BGRA and KCMY to CMYK

CIE2000DeltaE(Lab1 as CMCIELabMBS, Lab2 as CMCIELabMBS, Kl as double, Kc as double, Kh as double) as double

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Computes the dE between two Lab values.

CIE94DeltaE(Lab1 as CMCIELabMBS, Lab2 as CMCIELabMBS) as double

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Computes the dE between two Lab values.

CMCdeltaE(Lab1 as CMCIELabMBS, Lab2 as CMCIELabMBS) as double

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Computes the dE between two Lab values.

ColorSpaceShift(x as integer) as integer

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** A helper function to calculate the color space value of the pixelformat.

Notes:

The format of pixel is defined by one DWORD, using bit fields as follows
D TTTT U Y F P X S EEE CCCC BBB

D: Use dither (8 bits only)

T: Pixeltype

F: Flavor 0=MinIsBlack(Chocolate) 1=MinIsWhite(Vanilla)

P: Planar? 0=Chunky, 1=Planar

X: swap 16 bps endianness?

S: Do swap? ie, BGR, KYMC

E: Extra samples

C: Channels (Samples per pixel)

B: Bytes per sample

Y: Swap first - changes ABGR to BGRA and KCMY to CMYK

CreateBCHSWabstractProfile(nLUTPoints as integer, Bright as double, Contrast as double, Hue as double, Saturation as double, TempSrc as integer, TempDest as integer) as CMProfileMBS

Plugin Version: 6.5 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Creates a abstract devicelink operating in Lab for Bright/Contrast/Hue/Saturation and white point translation.

Notes:

White points are specified as temperatures.

Parameters:

nLUTPoints: Resulting CLUT resolution

Bright: Bright increment. May be negative

Contrast: Contrast increment. May be negative.

Hue: Hue displacement in degree.

Saturation: Saturation increment. May be negative

TempSrc: Source white point temperature

TempDest: Destination white point temperature.

CreateBitmapFromPicture(p as picture) as CMBitmapMBS

Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Creates a CMBitmapMBS from a given Realbasic picture.

Notes:

The Realbasic picture must be one of the pictures created using newpicture with a depth of 32 bits.

Returns nil on any error.

CreateGrayProfile(WhitePoint as CMCIExyYMBS, gamma as CMGammaMBS) as CMProfileMBS

Plugin Version: 3.4 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Creates a grayscale virtual profile based on white point and transfer tables.

Notes:

Both parameters can be nil.

Returns nil on any error.

Parameters:

White point: You can specify chromacity of white point, or use `WhitePointFromTemp()` to generate the white point from temperature.

Gamma tables: You can directly specify tables or use the gamma handling functions for obtaining these tables.

CreateInkLimitingDeviceLink(icColorSpaceSignature as integer, limit as double) as CMProfileMBS

Plugin Version: 3.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Creates an Ink Limiting Device Link.

Notes: Returns nil on any error.

CreateLab4Profile(WhitePoint as CMCIExyYMBS=nil) as CMProfileMBS

Plugin Version: 6.5 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Creates a Lab Profile for a given Point of xyY.

Notes: Returns nil on any error.

CreateLabProfile(WhitePoint as CMCIExyYMBS=nil) as CMProfileMBS

Plugin Version: 6.5 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Creates a Lab Profile for a given Point of xyY.

Notes: Returns nil on any error.

CreateLinearizationDeviceLink(icColorSpaceSignature as integer, g1 as CMGammaMBS=nil, g2 as CMGammaMBS=nil, g3 as CMGammaMBS=nil, g4 as CMGammaMBS=nil, g5 as CMGammaMBS=nil) as CMPProfileMBS

Plugin Version: 6.5 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Creates a Linearization Device Link from three gamma tables.

Notes:

Returns nil on any error.

For CMYK, pass 4 gamma objects.

For RGB, pass 3 gamma objects.

For Gray, pass one gamma object.

CreateMultiprofileTransform(profiles() as CMPProfileMBS, InputFormat as integer, OutputFormat as integer, Intent as integer, flags as integer) as CMTransformMBS

Plugin Version: 3.4 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Creates a transformation from a list of profiles.

Notes:

User passes in an array of handles to open profiles. The returned handle does "smelt" all profiles in only one devicelink. Following rules should be followed:

* Colorspaces must be paired with the exception of Lab/XYZ, that can be interchanged.

Profile must be Matrix-shaper, or hold the appropriate tag, device-to-pcs or pcs-to-device on depending on profile location.

All colorspaces up to 4 (significant) channels can be used anywhere on the chain, Hexachrome separation or more can only appear at last step. This limitation is intended to be solved in future releases.

Let's take as example, how to apply a abstract profile into a sRGB image. The chain would be sRGB ->Abstract ->sRGB. So, we would open sRGB and the abstract profile, and fill the array

Profiles(0) = sRGB

Profiles(1) = Abstract

Profiles(2) = sRGB

CMCreateMultiprofileTransform(Profiles, TYPE_ RGB_ 8, TYPE_ RGB_ 8, INTENT_ PERCEPTUAL, 0)

WARNING: the dE rises with the number of profiles.

This can be used, for example, with abstract profiles. For example, abstract profiles can be applied into a typical profile-to-profile color flow to model viewing conditions.

Once created, the transform will behave just like any other.
Returns nil on any error.

CreateNULLProfile as CMProfileMBS

Plugin Version: 6.5 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Creates an empty profile.

Notes: Returns nil on any error.

CreateProfilePlaceholder as CMProfileMBS

Plugin Version: 10.5 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Create an empty template for virtual profiles.

Notes: The resulting profile object has no file reference and no defined type.

CreateProofingTransform(InputProfile as CMProfileMBS, InputFormat as integer, OutputProfile as CMProfileMBS, OutputFormat as integer, ProofingProfile as CMProfileMBS, Intent as integer, ProofingIntent as integer, flags as integer) as CMTransformMBS

Plugin Version: 3.4 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Same as CMCreateTransformMBS, but including soft-proofing.

Notes:

The obtained transform emulates the device described by the "Proofing" profile. Useful to preview final result without rendering to physical medium.

Parameters and returns same as anterior, but with the addition of

ProofingProfile: a handle to proofing profile.

ProofingIntent: Is the intent for translating emulated colors. Default is INTENT_ ABSOLUTE_ COLORIMETRIC.

dwFlags: You can pass cmsFLAGS_ SOFTPROOFING (& h4000) (Does need preview tag to work) does emulate the Proofing device.

You need to add a combination of these flags to enable any proof!
Return nil on any error.

CreateRGBProfile(WhitePoint as CMCIExyYMBS, Primaries as CMCIExyYTRIPLEMBS, gammaRed as CMGammaMBS, gammaGreen as CMGammaMBS, gammaBlue as CMGammaMBS) as CMProfileMBS

Plugin Version: 6.5 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Creates a virtual profile based in primaries, white point and transfer tables.

Notes:

Parameters:

- White point: You can specify chromacity of white point, or use WhitePointFromTempMBS() to generate the white point from temperature.
- Primaries: The primaries (the TRUE primaries, not the colorants) of the device.
- Gamma tables: You can directly specify tables or use the gamma handling functions for obtaining these tables

CreatesRGBProfile as CMProfileMBS

Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Creates a default sRGB profile.

Example:

```
dim f as FolderItem
dim j as JPEGImporterMBS
dim p as CMProfileMBS
dim e as JPEGExporterMBS

f=SpecialFolder.Desktop.Child("test2.jpg")
j=new JPEGImporterMBS

j.ReadMarkers=true // else no metadata is read at all
```

```

j.ReadProfileData=true // needed to fill ProfileData property
j.file=f

j.Import

if j.ProfileData="" then
  MsgBox "no profile"
Return
end if

p=LCMSMBS.CreatesRGBProfile

f=SpecialFolder.Desktop.Child("test3.jpg")
e=new JPEGExporterMBS
e.File=f
e.Picture=j.Picture
e.ProfileData=p.SaveProfileToString
e.Quality=75
e.Export

```

Notes: Returns nil on any error.

CreateTransform(inProfile as CMProfileMBS, inFormat as integer, ouProfile as CMProfileMBS, outFormat as integer, Intent as integer=0, flags as integer=& h100) as CMTransformMBS

Plugin Version: 4.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Creates a Transform Object based on two profiles with perceptual intent.

Notes:

Returns nil on any error.

Constants for the formats:

See also:

- 2.13.1 CreateTransform(inProfile as CMProfileMBS, ouProfile as CMProfileMBS, Intent as integer=0, flags as integer=& h100) as CMTransformMBS 57

CreateTransform(inProfile as CMProfileMBS, ouProfile as CMProfileMBS, Intent as integer=0, flags as integer=& h100) as CMTransformMBS

Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Creates a Transform Object based on two profiles with given intent mode.

Notes:

Modes:

Returns nil on any error.

See also:

- 2.13.1 CreateTransform(inProfile as CMProfileMBS, inFormat as integer, ouProfile as CMProfileMBS, outFormat as integer, Intent as integer=0, flags as integer=& h100) as CMTransformMBS 56

CreateXYZProfile as CMProfileMBS

Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Creates a default XYZ profile.

Notes: Returns nil on any error.

D50X as double

Plugin Version: 12.1 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

D50xyY as CMCIExyYMBS

Plugin Version: 6.5 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the special constants for creating profiles.

Notes:

cmsD50_xyY in LCMS.

Returns nil on any error.

D50XYZ as CMCIEXYZMBS

Plugin Version: 6.5 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the special constants for creating profiles.

Notes:

cmsD50_XYZ in LCMS.
Returns nil on any error.

D50Y as double

Plugin Version: 12.1 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

D50Z as double

Plugin Version: 12.1 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

DeltaE(Lab1 as CMCIELabMBS, Lab2 as CMCIELabMBS) as double

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Computes the dE between two Lab values.

Notes: The formula is $dE = \sqrt{dL^2 + da^2 + db^2}$

DitherShift(x as integer) as integer

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** A helper function to calculate the dither value of the pixelformat.

Notes:

The format of pixel is defined by one DWORD, using bit fields as follows
D TTTT U Y F P X S EEE CCCC BBB

D: Use dither (8 bits only)
 T: Pixeltype
 F: Flavor 0=MinIsBlack(Chocolate) 1=MinIsWhite(Vanilla)
 P: Planar? 0=Chunky, 1=Planar
 X: swap 16 bps endianness?
 S: Do swap? ie, BGR, KYMC
 E: Extra samples
 C: Channels (Samples per pixel)
 B: Bytes per sample
 Y: Swap first - changes ABGR to BGRA and KCMY to CMYK

DoSwapShift(x as integer) as integer

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** A helper function to calculate the swap value of the pixelformat.

Notes:

The format of pixel is defined by one DWORD, using bit fields as follows
 D TTTTT U Y F P X S EEE CCCC BBB

D: Use dither (8 bits only)
 T: Pixeltype
 F: Flavor 0=MinIsBlack(Chocolate) 1=MinIsWhite(Vanilla)
 P: Planar? 0=Chunky, 1=Planar
 X: swap 16 bps endianness?
 S: Do swap? ie, BGR, KYMC
 E: Extra samples
 C: Channels (Samples per pixel)
 B: Bytes per sample
 Y: Swap first - changes ABGR to BGRA and KCMY to CMYK

Endian16Shift(x as integer) as integer

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** A helper function to calculate the endian value of the pixelformat.

Notes:

The format of pixel is defined by one DWORD, using bit fields as follows
 D TTTTT U Y F P X S EEE CCCC BBB

D: Use dither (8 bits only)
 T: Pixeltype
 F: Flavor 0=MinIsBlack(Chocolate) 1=MinIsWhite(Vanilla)
 P: Planar? 0=Chunky, 1=Planar
 X: swap 16 bps endianness?
 S: Do swap? ie, BGR, KYMC
 E: Extra samples
 C: Channels (Samples per pixel)
 B: Bytes per sample
 Y: Swap first - changes ABGR to BGRA and KCMY to CMYK

ErrorAction(mode as integer)

Plugin Version: 9.7 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Sets the error action.

Example:

```
LCMSMBS.ErrorAction(LCMSMBS.LCMS_ ERROR_ SHOW)
```

Notes:

Use this constants:

Default is to ignore errors.

ExtraShift(x as integer) as integer

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** A helper function to calculate the extra value of the pixelformat.

Notes:

The format of pixel is defined by one DWORD, using bit fields as follows
 D TTTTT U Y F P X S EEE CCCC BBB

D: Use dither (8 bits only)
 T: Pixeltype
 F: Flavor 0=MinIsBlack(Chocolate) 1=MinIsWhite(Vanilla)

P: Planar? 0=Chunky, 1=Planar
 X: swap 16 bps endianness?
 S: Do swap? ie, BGR, KYMC
 E: Extra samples
 C: Channels (Samples per pixel)
 B: Bytes per sample
 Y: Swap first - changes ABGR to BGRA and KCMY to CMYK

FlavorShift(x as integer) as integer

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** A helper function to calculate the flavor value of the pixelformat.

Notes:

The format of pixel is defined by one DWORD, using bit fields as follows
 D TTTT U Y F P X S EEE CCCC BBB

D: Use dither (8 bits only)
 T: Pixeltype
 F: Flavor 0=MinIsBlack(Chocolate) 1=MinIsWhite(Vanilla)
 P: Planar? 0=Chunky, 1=Planar
 X: swap 16 bps endianness?
 S: Do swap? ie, BGR, KYMC
 E: Extra samples
 C: Channels (Samples per pixel)
 B: Bytes per sample
 Y: Swap first - changes ABGR to BGRA and KCMY to CMYK

GetAlarmCodes(byref r as integer, byref g as integer, byref b as integer)

Plugin Version: 8.7 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Queries the current alarm codes.

Lab2LCh(source as CMCIELabMBS) as CMCIELChMBS

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Convert between polar/rectangulat form of CIE L*a*b*.

Notes:

Rules:

$$L = L$$

$$C = \sqrt{a^2 + b^2}$$

$$h = \text{atan}(b/a)$$

Where C=colorfulness and h=hue.

Lab2XYZ(source as CMCIELabMBS, whitePoint as CMCIEXYZMBS=nil) as CMCIEXYZMBS

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Does convert from/to XYZ Color Space to CIE L a* b* Color Space.

Notes: WhitePoint: the media white point. If nil, the D50 is assumed.

LCh2Lab(source as CMCIELChMBS) as CMCIELabMBS

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Convert between polar/rectangulat form of CIE L*a*b*.

Notes:

Rules:

$$L = L$$

$$C = \sqrt{a^2 + b^2}$$

$$h = \text{atan}(b/a)$$

Where C=colorfulness and h=hue.

LOGE as double

Plugin Version: 12.1 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

Notes: Returns $\log(e)$

M. PI as double

Plugin Version: 12.1 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

Notes: Returns pi value.

NewBitmap(width as integer,height as integer,colorspace as integer) as CMBitmapMBS

Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Creates a blank CMBitmapMBS.

Notes:

The list of Colorspace signatures:

Returns nil on any error.

See also:

- 2.13.1 NewBitmap(width as integer,height as integer,colorspace as integer, RowBytes as integer) as CMBitmapMBS 63
- 2.13.1 NewBitmap(width as integer,height as integer,colorspace as integer, RowBytes as integer, data as memoryblock) as CMBitmapMBS 64

NewBitmap(width as integer,height as integer,colorspace as integer, RowBytes as integer) as CMBitmapMBS

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Creates a blank CMBitmapMBS.

Notes:

The list of Colorspace signatures:

Returns nil on any error.

See also:

- 2.13.1 `NewBitmap(width as integer,height as integer,colorspace as integer)` as `CMBitmapMBS` 63
- 2.13.1 `NewBitmap(width as integer,height as integer,colorspace as integer, RowBytes as integer, data as memoryblock)` as `CMBitmapMBS` 64

`NewBitmap(width as integer,height as integer,colorspace as integer, RowBytes as integer, data as memoryblock)` as `CMBitmapMBS`

Plugin Version: 8.4 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Creates a `CMBitmapMBS` by referencing the given memoryblock.

Notes:

The list of Colorspace signatures:

Returns nil on any error.

The memoryblock must have the correct size (height*rowbytes).

And the memoryblock is only referenced, so any drawing into the bitmap will draw into the memoryblock.

See also:

- 2.13.1 `NewBitmap(width as integer,height as integer,colorspace as integer)` as `CMBitmapMBS` 63
- 2.13.1 `NewBitmap(width as integer,height as integer,colorspace as integer, RowBytes as integer)` as `CMBitmapMBS` 63

`OpenProfileFromData(Str as string)` as `CMProfileMBS`

Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Opens a profile from memory.

Example:

```
dim f as FolderItem
dim t as TiffPictureMBS
dim s as string
dim p as CMProfileMBS
```

```
f=SpecialFolder.Desktop.Child("horsehead_steinberg_big.tif")
```

```
t=f.OpenAsTiffMBS
s=t.GetColorProfile
p=LCMSMBS.OpenProfileFromData(s)
MsgBox p.Name
```

Notes: Returns nil on any error.

OpenProfileFromFile(file as folderitem) as CMPProfileMBS

Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Opens a profile file.

Notes:

This function uses paths and may fail because of duplicate disk names!
On a Mac you should be able to use the Colorsync stuff to find the profiles on disk.
Returns nil on any error.

PERCEPTUAL_BLACK_X as double

Plugin Version: 12.1 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

PERCEPTUAL_BLACK_Y as double

Plugin Version: 12.1 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

PERCEPTUAL_BLACK_Z as double

Plugin Version: 12.1 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

PlanarShift(x as integer) as integer

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** A helper function to calculate the planar value of the pixelformat.

Notes:

The format of pixel is defined by one DWORD, using bit fields as follows
 D TTTT U Y F P X S EEE CCCC BBB

D: Use dither (8 bits only)

T: Pixeltype

F: Flavor 0=MinIsBlack(Chocolate) 1=MinIsWhite(Vanilla)

P: Planar? 0=Chunky, 1=Planar

X: swap 16 bps endianness?

S: Do swap? ie, BGR, KYMC

E: Extra samples

C: Channels (Samples per pixel)

B: Bytes per sample

Y: Swap first - changes ABGR to BGRA and KCMY to CMYK

SetAlarmCodes(r as integer, g as integer, b as integer)

Plugin Version: 8.7 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Used to establish the out-of-gamut alarm color.

Notes: This color will replace all out-of-gamut colors if sFLAGS_ GAMUTCHEK is used in dwFlags parameter.

SetCMYKPreservationStrategy(n as integer) as integer

Plugin Version: 6.5 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Sets primary CMYK Black Preservation strategy.

Notes:

Pass constants:

SetLanguage(LanguageCode as String, CountryCode as String)

Plugin Version: 6.5 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Sets which language to use.

Example:

```
LCMSMBS.SetLanguage "en", "US"
```

Notes:

In LCMS 1.16 the parameters were integers, but with 1.17 this changed to strings. Strings must be 4 byte long and have the correct encoding.

This function applies only to v4 profiles, which may have multilocalized strings for information functions. Using CMSSetLanguageMBS(), you set the preferred language and country in what you want the information. All strings are searched for an exact match of language and country. In none found, then another search is done for same language, ignoring country. If no matching is found, the first string in table is returned.

Parameters:

LanguageCode: first name language code from ISO-639.
<http://lcweb.loc.gov/standards/iso639-2/iso639jac.html>

CountryCode:

first name region code from ISO-3166.
<http://www.iso.ch/iso/en/prods-services/iso3166ma/index.html>

SwapFirstShift(x as integer) as integer

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** A helper function to calculate the swap first value of the pixelformat.

Notes:

The format of pixel is defined by one DWORD, using bit fields as follows
 D TTTT U Y F P X S EEE CCCC BBB

D: Use dither (8 bits only)

T: Pixeltype
 F: Flavor 0=MinIsBlack(Chocolate) 1=MinIsWhite(Vanilla)
 P: Planar? 0=Chunky, 1=Planar
 X: swap 16 bps endianness?
 S: Do swap? ie, BGR, KYMC
 E: Extra samples
 C: Channels (Samples per pixel)
 B: Bytes per sample
 Y: Swap first - changes ABGR to BGRA and KCMY to CMYK

WhitePointFromTemp(temp as integer) as CMCIExyYMBS

Plugin Version: 3.4 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Obtains the chromaticity of white point based on temperature in BetaKelvin.

Notes: White points are stored normally as x, y, Y values, but as Realbasic can't have two variables with the same name and different case (Y and y), the big Y is named Z in our point class.

xyY2XYZ(source as CMCIExyYMBS) as CMCIEXYZMBS

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Does convert from/to XYZ Color Space to xyY color space.

XYZ2Lab(source as CMCIEXYZMBS, whitePoint as CMCIEXYZMBS=nil) as CMCIELabMBS

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Does convert from/to XYZ Color Space to CIE L a* b* Color Space.

Notes: WhitePoint: the media white point. If nil, the D50 is assumed.

XYZ2xyY(source as CMCIEXYZMBS) as CMCIExyYMBS

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Does convert from/to XYZ Color Space to xyY color space.

2.13.2 Constants

AVG_SURROUND = 1

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

AVG_SURROUND_4 = 0

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

cmsFLAGS_BLACKPOINTCOMPENSATION = & h00002000

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

cmsFLAGS_GAMUTCHECK = & h00001000

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

cmsFLAGS_GUESSDEVICECLASS = & h00000020

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

cmsFLAGS_HIGHRESPRECALC = & h00000400

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

cmsFLAGS_ LOWRESPRECALC = & h00000800

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

cmsFLAGS_ MATRIXINPUT = 1

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

cmsFLAGS_ MATRIXONLY = 3

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

cmsFLAGS_ MATRIXOUTPUT = 2

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

cmsFLAGS_ NODEFAULTRESOURCEDEF = & h01000000

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

Notes: This value changed in LCMS 1.1.7.

cmsFLAGS_ NOPRELINEARIZATION = & h00000010

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

cmsFLAGS_ NOTCACHE = & h00000040

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

cmsFLAGS_ NOTPRECALC = & h00000100

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

cmsFLAGS_ NOWHITEONWHITEFIXUP = 4

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

cmsFLAGS_ NULLTRANSFORM = & h00000200

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

cmsFLAGS_ PRESERVEBLACK = & h00008000

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

cmsFLAGS_SOFTPROOFING = & h00004000

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

cmsFLAGS_WHITEBLACKCOMPENSATION = & h00002000

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

CUTSHEET_SURROUND = 4

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

DARK_SURROUND = 3

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

DIM_SURROUND = 2

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

D_CALCULATE = & hFFFFFFFF

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

D_ CALCULATE_ DISCOUNT = & hFFFFFFFE

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

icSigChromaticAdaptationTag = & h63686164

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

icSigChromaticityTag = & h6368726D

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

icSigChromaticityType = & h6368726D

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

icSigColorantTableOutTag = & h636C6F74

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

icSigColorantTableTag = & h636C7274

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

icSigColorantTableType = & h636C7274

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

icSigHeptachromeData = & h4D434837

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

icSigHexachromeData = & h4D434836

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

icSiglutAtoBType = & h6D414220

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

icSiglutBtoAType = & h6D424120

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

icSigLuvKData = & h4C75764B

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

icSigMCH5Data = & h4D434835

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

icSigMCH6Data = & h4D434836

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

icSigMCH7Data = & h4D434837

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

icSigMCH8Data = & h4D434838

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

icSigMCH9Data = & h4D434839

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

icSigMCHADData = & h4D434841

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

icSigMCHBData = & h4D434842

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

icSigMCHCData = & h4D434843

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

icSigMCHDData = & h4D434844

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

icSigMCHEData = & h4D434845

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

icSigMCHFData = & h4D434846

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

icSigMultiLocalizedUnicodeType = & h6D6C7563

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

icSigOctachromeData = & h4D434838

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

icSigParametricCurveType = & h70617261

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

icSigS15Fixed16ArrayType = & h73663332

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

INTENT_ ABSOLUTE_ COLORIMETRIC = 3

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

INTENT_ PERCEPTUAL = 0

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

INTENT_ RELATIVE_ COLORIMETRIC = 1

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

INTENT_SATURATION = 2

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

lcmsSignature = & h6C636D73

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

LCMS_BPFLAGS_D50_ADAPTED = 1

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

LCMS_ERRC_ABORTED = & h00003000

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

LCMS_ERRC_RECOVERABLE = & h00002000

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

LCMS_ERRC_WARNING = & h00001000

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

LCMS_ERROR_ABORT = 0

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

LCMS_ERROR_IGNORE = 2

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

LCMS_ERROR_SHOW = 1

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

LCMS_PRESERVE_K_PLANE = 1

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

LCMS_PRESERVE_PURE_K = 0

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

LCMS_USED_AS_INPUT = 0

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

LCMS_USED_AS_OUTPUT = 1

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

LCMS_USED_AS_PROOF = 2

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

LCMS_VERSION = & h00000077

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

Notes: Current version is LCMS 1.1.9 in 9.8 plugins.

LUT_HAS3DGRID = & h00000010

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

LUT_HASMATRIX = 1

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

LUT_HASMATRIX3 = & h00000020

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

LUT_ HASMATRIX4 = & h00000040

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

LUT_ HASTL1 = 2

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

LUT_ HASTL2 = 8

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

LUT_ HASTL3 = & h00000100

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

LUT_ HASTL4 = & h00000200

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

LUT_ V2_ INPUT_ EMULATE_ V4 = & h00080000

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

LUT_V2_OUTPUT_EMULATE_V4 = & h00040000

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

LUT_V4_INPUT_EMULATE_V2 = & h00020000

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

LUT_V4_OUTPUT_EMULATE_V2 = & h00010000

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

MATSHAPER_ALLSMELTED = & h0000000C

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

MATSHAPER_HASINPSHAPER = & h00000010

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

MATSHAPER_HASMATRIX = 1

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

MATSHAPER_ HASSHAPER = 2

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

MATSHAPER_ INPUT = 4

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

MATSHAPER_ OUTPUT = 8

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

MAXCHANNELS = & h00000010

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

NON_ WINDOWS = 1

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

PT_ ANY = 0

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

PT_ CMY = 5

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

PT_ CMYK = 6

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

PT_ GRAY = 3

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

PT_ HiFi = & h0000000F

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

PT_ HiFi10 = & h00000013

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

PT_ HiFi11 = & h00000014

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

PT_HiFi12 = & h00000015

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

PT_HiFi13 = & h00000016

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

PT_HiFi14 = & h00000017

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

PT_HiFi15 = & h00000018

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

PT_HiFi7 = & h00000010

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ GRAY_ 8	= 196617
TYPE_ GRAY_ 8_ REV	= 204809
TYPE_ GRAY_ 16	= 196618
TYPE_ GRAY_ 16_ REV	= 204810
TYPE_ GRAY_ 16_ SE	= 198666
TYPE_ GRAYA_ 8	= 196745
TYPE_ GRAYA_ 16	= 196746
TYPE_ GRAYA_ 16_ SE	= 198794
TYPE_ GRAYA_ 8_ PLANAR	= 200841
TYPE_ GRAYA_ 16_ PLANAR	= 200842
TYPE_ RGB_ 8	= 262169
TYPE_ RGB_ 8_ PLANAR	= 266265
TYPE_ BGR_ 8	= 263193
TYPE_ BGR_ 8_ PLANAR	= 267289
TYPE_ RGB_ 16_ PLANAR	= 266266
TYPE_ RGB_ 16_ SE	= 264218
TYPE_ BGR_ 16	= 263194
TYPE_ BGR_ 16_ PLANAR	= 267290
TYPE_ BGR_ 16_ SE	= 265242
TYPE_ RGBA_ 8	= 262297
TYPE_ RGBA_ 8_ PLANAR	= 266393
TYPE_ RGBA_ 16	= 262298
TYPE_ RGBA_ 16_ PLANAR	= 266394
TYPE_ RGBA_ 16_ SE	= 264346
TYPE_ ARGB_ 8	= 278681
TYPE_ ARGB_ 16	= 278682
TYPE_ ABGR_ 8	= 263321
TYPE_ ABGR_ 16	= 263322
TYPE_ ABGR_ 16_ PLANAR	= 267418
TYPE_ ABGR_ 16_ SE	= 265370
TYPE_ BGRA_ 8	= 279705
TYPE_ BGRA_ 16	= 279706
TYPE_ BGRA_ 16_ SE	= 280730
TYPE_ CMY_ 8	= 327705
TYPE_ CMY_ 8_ PLANAR	= 331801
TYPE_ CMY_ 16	= 327706
TYPE_ CMY_ 16_ PLANAR	= 331802
TYPE_ CMY_ 16_ SE	= 329754
TYPE_ CMYK_ 8	= 393249
TYPE_ CMYK_ 8_ REV	= 401441
TYPE_ CMYK_ 8_ PLANAR	= 397345
TYPE_ CMYK_ 16	= 393250
TYPE_ CMYK_ 16_ REV	= 401442
TYPE_ YUVK_ 16	= 401442
TYPE_ CMYK_ 16_ PLANAR	= 397346
TYPE_ CMYK_ 16_ SE	= 395298
TYPE_ KYMC_ 8	= 394273
TYPE_ KYMC_ 16	= 394274
TYPE_ KYMC_ 16_ SE	= 396322
TYPE_ KCMY_ 8	= 409633
TYPE_ KCMY_ 8_ REV	= 417825
TYPE_ KCMY_ 16	= 409634
TYPE_ KCMY_ 16_ REV	= 417826
TYPE_ KCMY_ 16_ SE	= 411682
TYPE_ CMYK5_ 8	= 41
TYPE_ CMYK5_ 16	= 42
TYPE_ CMYK5_ 16_ SE	= 2090
TYPE_ KYMC5_ 8	= 1065
TYPE_ KYMC5_ 16	= 1066
TYPE_ KYMC5_ 16_ SE	= 3114
TYPE_ CMYKcm_ 8	= 49
TYPE_ CMYKcm_ 8_ PLANAR	= 4145
TYPE_ CMYKcm_ 16	= 50
TYPE_ CMYKcm_ 16_ PLANAR	= 4146

- 0 Perceptual
- 1 Colorimetric
- 2 Saturation
- 3 Absolute

LCMS_ ERROR_ ABORT quit application
 LCMS_ ERROR_ SHOW show error
 LCMS_ ERROR_ IGNORE ignore error

SigXYZData & h58595A20L 'XYZ '
 SigLabData & h4C616220L 'Lab '
 SigLuvData & h4C757620L 'Luv '
 SigYCbCrData & h59436272L 'YCbCr'
 SigYxyData & h59787920L 'Yxy '
 SigRgbData & h52474220L 'RGB '
 SigGrayData & h47524159L 'GRAY'
 SigHsvData & h48535620L 'HSV '
 SigHlsData & h484C5320L 'HLS '
 SigCmykData & h434D594BL 'CMYK'
 SigCmyData & h434D5920L 'CMY '
 Sig2colorData & h32434C52L '2CLR'
 Sig3colorData & h33434C52L '3CLR'
 Sig4colorData & h34434C52L '4CLR'
 Sig5colorData & h35434C52L '5CLR'
 Sig6colorData & h36434C52L '6CLR'
 Sig7colorData & h37434C52L '7CLR'
 Sig8colorData & h38434C52L '8CLR'
 Sig9colorData & h39434C52L '9CLR'
 Sig10colorData & h41434C52L 'ACLR'
 Sig11colorData & h42434C52L 'BCLR'
 Sig12colorData & h43434C52L 'CCLR'
 Sig13colorData & h44434C52L 'DCLR'
 Sig14colorData & h45434C52L 'ECLR'
 Sig15colorData & h46434C52L 'FCLR'

SigXYZData	& h58595A20L	'XYZ '
SigLabData	& h4C616220L	'Lab '
SigLuvData	& h4C757620L	'Luv '
SigYCbCrData	& h59436272L	'YCbCr'
SigYxyData	& h59787920L	'Yxy '
SigRgbData	& h52474220L	'RGB '
SigGrayData	& h47524159L	'GRAY'
SigHsvData	& h48535620L	'HSV '
SigHlsData	& h484C5320L	'HLS '
SigCmykData	& h434D594BL	'CMYK'
SigCmyData	& h434D5920L	'CMY '
Sig2colorData	& h32434C52L	'2CLR'
Sig3colorData	& h33434C52L	'3CLR'
Sig4colorData	& h34434C52L	'4CLR'
Sig5colorData	& h35434C52L	'5CLR'
Sig6colorData	& h36434C52L	'6CLR'
Sig7colorData	& h37434C52L	'7CLR'
Sig8colorData	& h38434C52L	'8CLR'
Sig9colorData	& h39434C52L	'9CLR'
Sig10colorData	& h41434C52L	'ACL'
Sig11colorData	& h42434C52L	'BCLR'
Sig12colorData	& h43434C52L	'CCLR'
Sig13colorData	& h44434C52L	'DCLR'
Sig14colorData	& h45434C52L	'ECLR'
Sig15colorData	& h46434C52L	'FCLR'

SigXYZData	& h58595A20L	'XYZ '
SigLabData	& h4C616220L	'Lab '
SigLuvData	& h4C757620L	'Luv '
SigYCbCrData	& h59436272L	'YCbCr'
SigYxyData	& h59787920L	'Yxy '
SigRgbData	& h52474220L	'RGB '
SigGrayData	& h47524159L	'GRAY'
SigHsvData	& h48535620L	'HSV '
SigHlsData	& h484C5320L	'HLS '
SigCmykData	& h434D594BL	'CMYK'
SigCmyData	& h434D5920L	'CMY '
Sig2colorData	& h32434C52L	'2CLR'
Sig3colorData	& h33434C52L	'3CLR'
Sig4colorData	& h34434C52L	'4CLR'
Sig5colorData	& h35434C52L	'5CLR'
Sig6colorData	& h36434C52L	'6CLR'
Sig7colorData	& h37434C52L	'7CLR'
Sig8colorData	& h38434C52L	'8CLR'
Sig9colorData	& h39434C52L	'9CLR'
Sig10colorData	& h41434C52L	'ACL'
Sig11colorData	& h42434C52L	'BCLR'
Sig12colorData	& h43434C52L	'CCLR'
Sig13colorData	& h44434C52L	'DCLR'
Sig14colorData	& h45434C52L	'ECLR'
Sig15colorData	& h46434C52L	'FCLR'

```
LCMS_PRESERVE_PURE_K    = 0
LCMS_PRESERVE_K_PLANE   = 1
```

PT_HiFi8 = & h00000011

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

PT_HiFi9 = & h00000012

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

PT_HLS = & h0000000D

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

PT_HSV = & h0000000C

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

PT_Lab = & h0000000A

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

PT_RGB = 4

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

PT_XYZ = 9

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

PT_YCbCr = 7

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

PT_YUV = 8

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

PT_YUVK = & h0000000B

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

PT_Yxy = & h0000000E

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ABGR_16 = & h0004049A

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ ABGR_ 16_ PLANAR = & h0004149A

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ ABGR_ 16_ SE = & h00040C9A

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ ABGR_ 8 = & h00040499

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ ALab_ 8 = & h000A0499

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ ARGB_ 16 = & h0004409A

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ ARGB_ 8 = & h00044099

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ BGR_ 16 = & h0004449A

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ BGR_ 16_ SE = & h0004489A

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ BGR_ 8 = & h00044499

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ BGR_ 16 = & h0004041A

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ BGR_ 16_ PLANAR = & h0004141A

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ BGR_ 16_ SE = & h00040C1A

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ BGR_ 8 = & h00040419

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ BGR_ 8_ PLANAR = & h00041419

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ CMYK10_ 16 = & h00000052

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ CMYK10_ 16_ SE = & h00000852

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ CMYK10_ 8 = & h00000051

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ CMYK11_ 16 = & h0000005A

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ CMYK11_ 16_ SE = & h0000085A

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ CMYK11_ 8 = & h00000059

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ CMYK12_ 16 = & h00000062

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ CMYK12_ 16_ SE = & h00000862

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ CMYK12_ 8 = & h00000061

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ CMYK5_ 16 = & h0000002A

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ CMYK5_ 16_ SE = & h0000082A

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ CMYK5_ 8 = & h00000029

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ CMYK7_ 16 = & h0000003A

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ CMYK7_ 16_ SE = & h0000083A

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ CMYK7_ 8 = & h00000039

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ CMYK8_ 16 = & h00000042

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ CMYK8_ 16_ SE = & h00000842

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ CMYK8_ 8 = & h00000041

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ CMYK9_ 16 = & h0000004A

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ CMYK9_ 16_ SE = & h0000084A

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ CMYK9_ 8 = & h00000049

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ CMYKA_ 8 = & h000600A1

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ CMYKcm_ 16 = & h00000032

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ CMYKcm_ 16_ PLANAR = & h00001032

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ CMYKcm_ 16_ SE = & h00000832

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ CMYKcm_ 8 = & h00000031

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ CMYKcm_ 8_ PLANAR = & h00001031

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ CMYK_ 16 = & h00060022

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ CMYK_ 16_ PLANAR = & h00061022

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ CMYK_ 16_ REV = & h00062022

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ CMYK_ 16_ SE = & h00060822

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ CMYK_ 8 = & h00060021

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ CMYK_ 8_ PLANAR = & h00061021

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ CMYK_ 8_ REV = & h00062021

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ CMYK_ DBL = & h00060020

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ CMY_ 16 = & h0005001A

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ CMY_ 16_ PLANAR = & h0005101A

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ CMY_ 16_ SE = & h0005081A

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ CMY_ 8 = & h00050019

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ CMY_ 8_ PLANAR = & h00051019

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ GRAYA_ 16 = & h0003008A

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ GRAYA_ 16_ PLANAR = & h0003108A

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ GRAYA_ 16_ SE = & h0003088A

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ GRAYA_ 8 = & h00030089

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ GRAYA_ 8_ PLANAR = & h00031089

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ GRAY_ 16 = & h0003000A

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ GRAY_ 16_ REV = & h0003200A

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ GRAY_ 16_ SE = & h0003080A

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ GRAY_ 8 = & h00030009

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ GRAY_ 8_ REV = & h00032009

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ GRAY_ DBL = & h00030008

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ HLS_ 16 = & h000D001A

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ HLS_ 16_ PLANAR = & h000D101A

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ HLS_ 16_ SE = & h000D081A

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ HLS_ 8 = & h000D0019

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ HLS_ 8_ PLANAR = & h000D1019

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ HSV_ 16 = & h000C001A

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ HSV_ 16_ PLANAR = & h000C101A

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ HSV_ 16_ SE = & h000C081A

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ HSV_ 8 = & h000C0019

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ HSV_ 8_ PLANAR = & h000C1019

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ KCMY_ 16 = & h00064022

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ KCMY_ 16_ REV = & h00066022

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ KCMY_ 16_ SE = & h00064822

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ KCMY_ 8 = & h00064021

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ KCMY_ 8_ REV = & h00066021

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ KYMC10_ 16 = & h00000452

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ KYMC10_ 16_ SE = & h00000C52

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ KYMC10_ 8 = & h00000451

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ KYMC11_ 16 = & h0000045A

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ KYMC11_ 16_ SE = & h00000C5A

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ KYMC11_ 8 = & h00000459

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ KYMC12_ 16 = & h00000462

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ KYMC12_ 16_ SE = & h00000C62

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ KYMC12_ 8 = & h00000461

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ KYMC5_ 16 = & h0000042A

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ KYMC5_ 16_ SE = & h00000C2A

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ KYMC5_ 8 = & h00000429

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ KYMC7_ 16 = & h0000043A

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ KYMC7_ 16_ SE = & h00000C3A

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ KYMC7_ 8 = & h00000439

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ KYMC8_ 16 = & h00000442

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ KYMC8_ 16_ SE = & h00000C42

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ KYMC8_ 8 = & h00000441

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ KYMC9_ 16 = & h0000044A

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ KYMC9_ 16_ SE = & h00000C4A

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ KYMC9_ 8 = & h00000449

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ KYMC_ 16 = & h00060422

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ KYMC_ 16_ SE = & h00060C22

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ KYMC_ 8 = & h00060421

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ Lab_ 16 = & h000A001A

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ Lab_ 8 = & h000A0019

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ Lab_ DBL = & h000A0018

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ NAMED_ COLOR_ INDEX = & h0000000A

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_RGBA_16 = & h0004009A

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_RGBA_16_PLANAR = & h0004109A

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_RGBA_16_SE = & h0004089A

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_RGBA_8 = & h00040099

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_RGBA_8_PLANAR = & h00041099

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_RGB_16 = & h0004001A

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ RGB_ 16_ PLANAR = & h0004101A

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ RGB_ 16_ SE = & h0004081A

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ RGB_ 8 = & h00040019

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ RGB_ 8_ PLANAR = & h00041019

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ RGB_ DBL = & h00040018

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ XYZ_ 16 = & h0009001A

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ XYZ_ DBL = & h00090018

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ YCbCr_ 16 = & h0007001A

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ YCbCr_ 16_ PLANAR = & h0007101A

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ YCbCr_ 16_ SE = & h0007081A

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ YCbCr_ 8 = & h00070019

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ YCbCr_ 8_ PLANAR = & h00071019

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ YUVK_ 16 = & h00062022

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ YUVK_ 8 = & h00062021

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ YUV_ 16 = & h0008001A

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ YUV_ 16_ PLANAR = & h0008101A

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ YUV_ 16_ SE = & h0008081A

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ YUV_ 8 = & h00080019

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ YUV_ 8_ PLANAR = & h00081019

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

TYPE_ Yxy_ 16 = & h000E001A

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the LCMS constants.

USE_ ASSEMBLER = 0

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the flags used to compile the library.

Notes: Value should be one for x86 platforms. On PowerPC plain C code is used.

USE_ BIG_ ENDIAN = 0

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the flags used to compile the library.

Notes: Value should be 1 for PowerPC platforms and 0 for x86 platforms.

USE_ CUSTOM_ SWAB = 0

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the flags used to compile the library.

USE_ INLINE = 1

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the flags used to compile the library.

Notes: Should always be 1.

USE_INT64 = 1

Plugin Version: 6.5 Console & Web: No Mac: Yes, Win: Yes, Linux: Yes, . **Function:** One of the flags used to compile the library.

Notes: Should always be 1.

2.14 class CMTransformMBS

class CMTransformMBS

Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** A class for a transformation.

2.14.1 Methods

close

Plugin Version: 3.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **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.)

NamedColorCount as integer

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Returns the number of colors present on transform database.

NamedColorIndex(name as string) as integer

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Looks up on the spot colors database and return the color number or -1 if the color was not found.

Transform(bitmap as CMBitmapMBS) as boolean

Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Transforms the given bitmap.

Notes:

Boolean result added in version 7.2 so you know everything worked nice.

Returns true on success.

See also:

- 2.14.1 Transform(inBitmap as CMBitmapMBS,outBitmap as CMBitmapMBS) as boolean 116

Transform(inBitmap as CMBitmapMBS,outBitmap as CMBitmapMBS) as boolean

Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Transforms from one bitmap to another.

Notes:

Make sure that both bitmaps have the same size and a well sized memoryblock.

Boolean result added in version 7.2 so you know everything worked nice.

Returns true on success.

See also:

- 2.14.1 Transform(bitmap as CMBitmapMBS) as boolean 116

Transform2DeviceLink(flags as integer=0) as CMProfileMBS

Plugin Version: 3.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Creates a new Device Link from a transformation.

Notes: Returns nil on any error.

TransformMem(MemIn as memoryblock, MemOut as memoryblock, count as integer) as boolean

Plugin Version: 3.4 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The low level color transformation function.

Example:

```

dim ct as CMTransformMBS
dim mi,mo as MemoryBlock
dim pi as CMProfileMBS
dim po as CMProfileMBS
dim c as color = rgb(255,0,0)
dim f as FolderItem

// you find this profiles on Mac OS X in /System/Library/ColorSync/Profiles
f=SpecialFolder.Desktop.Child("Generic RGB Profile.icc")
pi=f.OpenAsCMProfileMBS
f=SpecialFolder.Desktop.Child("Generic CMYK Profile.icc")
po=f.OpenAsCMProfileMBS

ct=LCMSMBS.CreateTransform(pi,po,LCMSMBS.INTENT_RELATIVE_COLORIMETRIC)

' ... fill c
mi=NewMemoryBlock(6) // RGB
mo=NewMemoryBlock(8) // CMYK

mi.UShort(0)=c.red*257
mi.UShort(2)=c.green*257
mi.UShort(4)=c.blue*257

if ct.TransformMem(mi,mo,1) then
'ok

MsgBox str(mo.UShort(0)/257)+" "+_ // C
str(mo.UShort(2)/257)+" "+_ // M
str(mo.UShort(4)/257)+" "+_ // Y
str(mo.UShort(6)/257) // K
end if

```

Notes:

You pass in a memoryblock with 2 bytes for each color component.
e.g. a RGB value is built of 3 16bit values.

Count is the number of pixels provided in the memoryblocks.

Function returns false if the memoryblocks are nil, count is 0 or the transform object has no valid handle.

TransformRGB(c as color) as color

Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** Transforms a color inside a RGB to RGB Transformation Object.

2.14.2 Properties

Handle as Integer

Plugin Version: 3.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The handle to the Transform object.

Notes: (Read only property)

2.15 class CMVectorMBS

class CMVectorMBS

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The LCMS class for a simple 3 value vector.

2.15.1 Methods

Constructor(value0 as double=0.0, value1 as double=0.0, value2 as double=0.0)

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The constructor to create a new vector.

Value(index as integer) as double

Plugin Version: 9.3 Console & Web: Yes Mac: Yes, Win: Yes, Linux: Yes, . **Function:** The value of the vector at the given index.

Notes:

index is from 0 to 2.

(Read and Write computed property)

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Chapter 4

List of all modules

- LCMSMBS

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