

# MBS REALbasic ComputerControl Plugin Documentation

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## 0.1 Introduction

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

## 0.2 Content

- 1 List of all topics 3
- 2 All items in this plugin 7
- 3 List of all classes 57
- 4 List of all modules 59

# Chapter 1

## List of Topics

• 2 Remote Control	7
– 2.1 module RemoteControlMBS	7
* 2.1.1 LinuxConvertCase(keysymbol as integer, byref lowerSymbol as integer, byref upperSymbol as integer) as boolean	7
* 2.1.1 LinuxKeyCodeToKeySymbol(keycode as integer, index as integer) as integer	8
* 2.1.1 LinuxKeyNameToKeySymbol(keyname as string) as integer	8
* 2.1.1 LinuxKeySymbolToKeyCode(keysymbol as integer) as integer	8
* 2.1.1 LinuxKeySymbolToKeyName(keysymbol as integer) as string	9
* 2.1.1 LinuxMouseClicked(ButtonID as integer, ButtonDown as boolean) as boolean	9
* 2.1.1 LinuxMousePositionX as integer	9
* 2.1.1 LinuxMousePositionY as integer	9
* 2.1.1 LinuxMoveMouse(x as integer, y as integer) as boolean	10
* 2.1.1 LinuxPressControlKey(keydown as boolean) as boolean	10
* 2.1.1 LinuxPressKey(Keycode as integer) as boolean	10
* 2.1.1 LinuxPressKey(Keycode as integer, ButtonDown as boolean) as boolean	11
* 2.1.1 LinuxPressOptionKey(keydown as boolean) as boolean	11
* 2.1.1 LinuxPressShiftKey(keydown as boolean) as boolean	12
* 2.1.1 LinuxSupported as boolean	12
* 2.1.1 MacCurrentProcessID as integer	12
* 2.1.1 MacCurrentProcessName as string	12
* 2.1.1 MacDescriptionForKeyCode(keycode as integer) as string	13
* 2.1.1 MacDisplayNameForKeyCode(keycode as integer) as string	13
* 2.1.1 MacForegroundProcessID as integer	13
* 2.1.1 MacFrontProcessName as string	14
* 2.1.1 MacKeyboardLocalizedName as string	14

* 2.1.1 MacKeyboardName as string	14
* 2.1.1 MacMouseClicked(x as double, y as double, updateCursorPosition as boolean, MouseButton1 as boolean) as boolean	15
* 2.1.1 MacMouseClicked(x as double, y as double, updateCursorPosition as boolean, MouseButton1 as boolean, MouseButton2 as boolean) as boolean	15
* 2.1.1 MacMouseClicked(x as double, y as double, updateCursorPosition as boolean, MouseButton1 as boolean, MouseButton2 as boolean, MouseButton3 as boolean) as boolean	16
* 2.1.1 MacMousePositionX as integer	17
* 2.1.1 MacMousePositionY as integer	17
* 2.1.1 MacMouseWheel(wheel1 as integer) as boolean	17
* 2.1.1 MacMouseWheel(wheel1 as integer, wheel2 as integer) as boolean	18
* 2.1.1 MacMoveMouse(x as double, y as double) as boolean	18
* 2.1.1 MacPressCommandKey(keydown as boolean) as boolean	19
* 2.1.1 MacPressControlKey(keydown as boolean) as boolean	19
* 2.1.1 MacPressKey(keychar as integer, virtualkey as integer) as boolean	20
* 2.1.1 MacPressKey(keychar as integer, virtualkey as integer, keydown as boolean) as boolean	20
* 2.1.1 MacPressOptionKey(keydown as boolean) as boolean	20
* 2.1.1 MacPressShiftKey(keydown as boolean) as boolean	21
* 2.1.1 MacProcessCount as integer	21
* 2.1.1 MacProcessName(index as integer) as string	22
* 2.1.1 MacProcessVisible(index as integer) as boolean	22
* 2.1.1 MacTextForKeyCode(keycode as integer, KeyAction as integer, ModifierState as integer) as string	23
* 2.1.1 MouseClick(x as integer, y as integer, down as boolean) as boolean	23
* 2.1.1 MoveMouse(x as integer, y as integer) as boolean	24
* 2.1.1 PressControlKey(keydown as boolean) as boolean	24
* 2.1.1 PressOptionKey(keydown as boolean) as boolean	24
* 2.1.1 PressShiftKey(keydown as boolean) as boolean	24
* 2.1.1 WinCurrentProcessID as integer	25
* 2.1.1 WinFindWindow(ClassName as string, WindowName as string) as integer	25
* 2.1.1 WinForegroundProcessID as integer	25
* 2.1.1 WinFrontWindowTitle as string	26
* 2.1.1 WinKeyboardName as string	26
* 2.1.1 WinKeyIsDown(virtualkey as integer) as boolean	26
* 2.1.1 WinMouseClicked(x as integer, y as integer, AbsolutePosition as boolean, MouseButton1 as boolean) as boolean	27
* 2.1.1 WinMouseClicked(x as integer, y as integer, AbsolutePosition as boolean, MouseButton1 as boolean, MouseButton2 as boolean) as boolean	27
* 2.1.1 WinMouseClicked(x as integer, y as integer, AbsolutePosition as boolean, MouseButton1 as boolean, MouseButton2 as boolean, MouseButton3 as boolean) as boolean	28
* 2.1.1 WinMoveMouse(x as integer, y as integer) as boolean	28

* 2.1.1 WinPressControlKey(keydown as boolean) as boolean	29
* 2.1.1 WinPressKey(ScanCode as integer) as boolean	29
* 2.1.1 WinPressKey(ScanCode as integer, keydown as boolean) as boolean	29
* 2.1.1 WinPressKey(virtualkey as integer, ScanCode as integer) as boolean	30
* 2.1.1 WinPressKey(virtualkey as integer, ScanCode as integer, keydown as boolean) as boolean	30
* 2.1.1 WinPressOptionKey(keydown as boolean) as boolean	31
* 2.1.1 WinPressShiftKey(keydown as boolean) as boolean	31
* 2.1.1 WinScanCodeToVirtualKeyCode(ScanCode as integer) as integer	32
* 2.1.1 WinSendMessage(Win as window, Msg as integer, IParam as integer, WParam as integer) as integer	32
* 2.1.1 WinSendMessage(WindowHandle as integer, Msg as integer, IParam as integer, WParam as integer) as integer	33
* 2.1.1 WinVirtualKeyCodeToCharCode(VirtualKeyCode as integer) as integer	33
* 2.1.1 WinVirtualKeyCodeToScanCode(VirtualKeyCode as integer) as integer	33
* 2.1.1 WinVirtualKeyForASCII(Character as integer, byref VirtualKeyCode as integer, Byref ShiftKey as boolean, byref ControlKey as Boolean, byref AltKey as boolean) as boolean	34
– 2.2 class PresskeyMBS	34
* 2.2.1 clear	34
* 2.2.1 mouseclick(down as boolean)	35
* 2.2.1 MouseClick(down as boolean, rightdown as boolean)	35
* 2.2.1 MouseMove(globalx as integer,globaly as integer)	35
* 2.2.1 MouseMoveClick(globalx as integer,globaly as integer,down as boolean)	36
* 2.2.1 MouseMoveClick(globalx as integer,globaly as integer,down as boolean, rightdown as boolean)	36
* 2.2.1 press	37
* 2.2.1 pressraw(down as boolean)	38
* 2.2.2 Charcode as integer	39
* 2.2.2 Command as boolean	40
* 2.2.2 Control as boolean	40
* 2.2.2 Keycode as integer	41
* 2.2.2 Lasterror as integer	41
* 2.2.2 Option as boolean	42
* 2.2.2 Shift as boolean	42
* 2.2.2 VirtualCode as integer	43
– 2.4 class KeyCodesMBS	46
* 2.4.1 AsciiToKeyCode(ascii as integer) as integer	47
* 2.4.1 KeyCodeToAscii(keycode as integer) as integer	47
* 2.4.1 KeyCodeToAsciiWithSecondKeyCode(keycode as integer) as integer	48
* 2.4.1 TestForAsciiKeyDown(ascii as integer) as boolean	49
* 2.4.1 TestForKeyDown(keycode as integer) as boolean	49
* 2.4.1 Update	49

* 2.4.2 LastError as Integer	50
* 2.4.2 Name as String	50
* 2.4.2 State as Integer	50
– 2.3 class GammaFadeMBS	43
* 2.3.1 Constructor	44
* 2.3.1 Constructor(mainwindow as window)	44
* 2.3.1 GammaFadeIn(seconds as double) as boolean	44
* 2.3.1 GammaFadeOut(seconds as double) as boolean	45
* 2.3.2 Available as Boolean	45
* 2.3.2 FadeColor as Color	46
– 2.5 class GammaMBS	51
* 2.5.1 Blue(Index as integer) as double	51
* 2.5.1 Constructor	51
* 2.5.1 Constructor(mainwindow as window)	52
* 2.5.1 Green(Index as integer) as double	52
* 2.5.1 Red(Index as integer) as double	53
* 2.5.1 SetGamma(gammaScale as double=1.0) as boolean	53
* 2.5.2 Available as Boolean	53

## Chapter 2

# Remote Control

### 2.1 module RemoteControlMBS

**module RemoteControlMBS**

module from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

**Function:** This module collects methods for simulating user input with mouse and keyboard.

**Notes:** You can use this class for GUI scripting.

#### 2.1.1 Methods

**LinuxConvertCase(keySymbol as integer, byref lowerSymbol as integer, byref upperSymbol as integer) as boolean**

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Does nothing, Windows: Does nothing, Linux x86: Works.

**Function:** Converts the case of the given keySymbol.

**Notes:**

In lowerSymbol you will receive the key symbol for a lower case key and in upperSymbol the uppercase keys.

So passing in the key symbol of "a" or "A" will both return "a" and "A".

### **LinuxKeyCodeToKeySymbol(keycode as integer, index as integer) as integer**

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Does nothing, Windows: Does nothing, Linux x86: Works.

**Function:** Returns from the keyboard mapping tables the key symbol for the given key code.

**Notes:** Index is the offset in the tables. 0 for the first key symbol and 1 for the second. If the user presses shift the keyboard driver uses index=1 to access the capital letters.

### **LinuxKeyNameToKeySymbol(keyname as string) as integer**

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Does nothing, Windows: Does nothing, Linux x86: Works.

**Function:** Searches the key mapping list for the key symbol for a given name.

**Notes:** Returns 0 on failure.

### **LinuxKeySymbolToKeyCode(keysymbol as integer) as integer**

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Does nothing, Windows: Does nothing, Linux x86: Works.

**Function:** Searches the hardware dependend key code for the given key symbol.

**Notes:** Returns 0 on any error.

**LinuxKeySymbolToKeyName(keysymbol as integer) as string**

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Does nothing, Windows: Does nothing, Linux x86: Works.

**Function:** Returns the name of the key symbol.

**Notes:** Can return "" on an invalide keysymbol value.

**LinuxMouseClicked(ButtonID as integer, ButtonDown as boolean) as boolean**

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Does nothing, Windows: Does nothing, Linux x86: Works.

**Function:** Simulates a mouse click with the given button.

**Notes:**

ButtonID=1 is the left mouse button.

Returns true on success.

Be aware that the user may get into trouble if you forget to release a mouse button you pressed before. So always call this method another time to release the mouse buttons.

**LinuxMousePositionX as integer**

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Does nothing, Windows: Does nothing, Linux x86: Works.

**Function:** Queries the current mouse position.

**LinuxMousePositionY as integer**

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Does nothing, Windows: Does nothing, Linux

x86: Works.

**Function:** Queries the current mouse position.

### **LinuxMoveMouse(x as integer, y as integer) as boolean**

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Does nothing, Windows: Does nothing, Linux x86: Works.

**Function:** Moves the mouse to the given position.

**Notes:** Returns true on success.

### **LinuxPressControlKey(keydown as boolean) as boolean**

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Does nothing, Windows: Does nothing, Linux x86: Works.

**Function:** Presses the ctrl key.

**Notes:**

Returns true on success.

Be aware that the user may get into trouble if you forget to release a key you pressed before. So always call this method another time to release the key.

### **LinuxPressKey(Keycode as integer) as boolean**

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Does nothing, Windows: Does nothing, Linux x86: Works.

**Function:** Presses the key with the given keycode.

**Notes:**

Performs a key down and a key up event.  
Returns true on success.  
See also:

- 2.1.1 LinuxPressKey(Keycode as integer, ButtonDown as boolean) as boolean 11

### **LinuxPressKey(Keycode as integer, ButtonDown as boolean) as boolean**

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Does nothing, Windows: Does nothing, Linux x86: Works.

**Function:** Performs a key event.  
**Notes:**

Returns true on success.

Be aware that the user may get into trouble if you forget to release a key you pressed before. So always call this method another time to release the key.  
See also:

- 2.1.1 LinuxPressKey(Keycode as integer) as boolean 10

### **LinuxPressOptionKey(keydown as boolean) as boolean**

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Does nothing, Windows: Does nothing, Linux x86: Works.

**Function:** Presses the alt key.  
**Notes:**

Returns true on success.

Be aware that the user may get into trouble if you forget to release a key you pressed before. So always call this method another time to release the key.

**LinuxPressShiftKey(keydown as boolean) as boolean**

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Does nothing, Windows: Does nothing, Linux x86: Works.

**Function:** Presses the shift key.

**Notes:**

Returns true on success.

Be aware that the user may get into trouble if you forget to release a key you pressed before. So always call this method another time to release the key.

**LinuxSupported as boolean**

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Does nothing, Windows: Does nothing, Linux x86: Works.

**Function:** Whether the functions are available for simulation of keyboard and mouse events.

**Notes:** Returns true if the Xtest extension is installed.

**MacCurrentProcessID as integer**

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

**Function:** Returns the process ID of your application.

**Notes:** Returns 0 on any error.

**MacCurrentProcessName as string**

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86:

Does nothing.

**Function:** Returns the name of the current process.

**Example:**

```
msgbox RemoteControlMBS.MacCurrentProcessName
```

**Notes:** This is the name of your application.

### **MacDescriptionForKeyCode(keycode as integer) as string**

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

**Function:** Translates a keycode to a string for displaying.

**Notes:** Keycodes which match a special key like "Return", "F1" or "Backspace" are returned as descriptive strings.

### **MacDisplayNameForKeyCode(keycode as integer) as string**

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

**Function:** Translates a keycode to a string for displaying.

**Notes:** Same as MacTextForKeyCode(keycode, 4)

### **MacForegroundProcessID as integer**

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

**Function:** Returns the process ID of the application in the foreground.

**Notes:** Returns 0 on any error.

### MacFrontProcessName as string

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

**Function:** The name of the front process.

**Example:**

```
RemoteControlMBS.MacFrontProcessName="iChat" // move iChat to front
```

**Notes:** (Read and Write computed property)

### MacKeyboardLocalizedName as string

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

**Function:** The localized name of the current keyboard layout.

**Notes:** Returns "" on any error.

### MacKeyboardName as string

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

**Function:** The name of the current keyboard layout.

**Notes:** Returns "" on any error.

**MacMouseClicked(x as double, y as double, updateCursorPosition as boolean, MouseButton1 as boolean) as boolean**

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

**Function:** Clicks the mouse buttons on the given position.

**Example:**

*// doing a context menu click with control key:*

```
dim x,y as Integer
x=System.MouseX
y=System.MouseY

call RemoteControlMBS.PressControlKey true
call RemoteControlMBS.MacMouseClicked x, y, true, true
call RemoteControlMBS.MacMouseClicked x, y, true, false
call RemoteControlMBS.PressControlKey false
```

**Notes:**

Returns true on success.

If updateCursorPosition is true the mouse position is updated on screen.

Be aware that the user may get into trouble if you forget to release a mouse button you pressed before. So always call this method another time to release the mouse buttons.

See also:

- 2.1.1 MacMouseClicked(x as double, y as double, updateCursorPosition as boolean, MouseButton1 as boolean, MouseButton2 as boolean) as boolean 15
- 2.1.1 MacMouseClicked(x as double, y as double, updateCursorPosition as boolean, MouseButton1 as boolean, MouseButton2 as boolean, MouseButton3 as boolean) as boolean 16

**MacMouseClicked(x as double, y as double, updateCursorPosition as boolean, MouseButton1 as boolean, MouseButton2 as boolean) as boolean**

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86:

Does nothing.

**Function:** Clicks the mouse buttons on the given position.

**Example:**

```
// do a right click:

dim x,y as Integer
x=System.MouseX
y=System.MouseY

call RemoteControlMBS.MacMouseClicked x, y, true, false, true
call RemoteControlMBS.MacMouseClicked x, y, true, false, false
```

**Notes:**

Returns true on success.

If updateCursorPosition is true the mouse position is updated on screen.

Be aware that the user may get into trouble if you forget to release a mouse button you pressed before. So always call this method another time to release the mouse buttons.

See also:

- 2.1.1 MacMouseClicked(x as double, y as double, updateCursorPosition as boolean, MouseButton1 as boolean) as boolean 15
- 2.1.1 MacMouseClicked(x as double, y as double, updateCursorPosition as boolean, MouseButton1 as boolean, MouseButton2 as boolean, MouseButton3 as boolean) as boolean 16

**MacMouseClicked(x as double, y as double, updateCursorPosition as boolean, MouseButton1 as boolean, MouseButton2 as boolean, MouseButton3 as boolean) as boolean**

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

**Function:** Clicks the mouse buttons on the given position.

**Notes:**

Returns true on success.

If `updateCursorPosition` is true the mouse position is updated on screen.

Be aware that the user may get into trouble if you forget to release a mouse button you pressed before. So always call this method another time to release the mouse buttons.

See also:

- 2.1.1 `MacMouseClicked(x as double, y as double, updateCursorPosition as boolean, MouseButton1 as boolean)` as boolean 15
- 2.1.1 `MacMouseClicked(x as double, y as double, updateCursorPosition as boolean, MouseButton1 as boolean, MouseButton2 as boolean)` as boolean 15

### **MacMousePositionX as integer**

method from class `RemoteControlMBS`, Remote Control, MBS REALbasic ComputerControl Plugin (`RemoteControl`), Plugin version: 8.4, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

**Function:** Queries the current mouse position.

### **MacMousePositionY as integer**

method from class `RemoteControlMBS`, Remote Control, MBS REALbasic ComputerControl Plugin (`RemoteControl`), Plugin version: 8.4, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

**Function:** Queries the current mouse position.

### **MacMouseWheel(wheel1 as integer) as boolean**

method from class `RemoteControlMBS`, Remote Control, MBS REALbasic ComputerControl Plugin (`RemoteControl`), Plugin version: 8.4, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

**Function:** Performs a wheel event.

**Example:**

[call RemoteControlMBS.MacMouseWheel 1](#)

**Notes:**

Returns true on success.

A typical value for the wheel changes are in range from -10 to 10.

See also:

- 2.1.1 MacMouseWheel(wheel1 as integer, wheel2 as integer) as boolean

18

**MacMouseWheel(wheel1 as integer, wheel2 as integer) as boolean**

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

**Function:** Performs a wheel event.

**Example:**

[call RemoteControlMBS.MacMouseWheel 10,5](#)

**Notes:**

Returns true on success.

A typical value for the wheel changes are in range from -10 to 10.

See also:

- 2.1.1 MacMouseWheel(wheel1 as integer) as boolean

17

**MacMoveMouse(x as double, y as double) as boolean**

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

**Function:** Moves the mouse to the given position.

**Example:**

`call RemoteControlMBS.MacMoveMouse(100,100)`

**Notes:** Returns true on success.

### **MacPressCommandKey(keydown as boolean) as boolean**

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

**Function:** Presses the command key.

**Notes:**

Returns true on success.

Be aware that the user may get into trouble if you forget to release a key you pressed before. So always call this method another time to release the key.

### **MacPressControlKey(keydown as boolean) as boolean**

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

**Function:** Presses the ctrl key.

**Notes:**

Returns true on success.

Be aware that the user may get into trouble if you forget to release a key you pressed before. So always call this method another time to release the key.

**MacPressKey(keychar as integer, virtualkey as integer) as boolean**

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

**Function:** Presses the given key.

**Notes:**

keychar is the ASCII code of the key you press and virtualkey is the key code.

Returns true on success.

Performs a key down and a key up event.

See also:

- 2.1.1 MacPressKey(keychar as integer, virtualkey as integer, keydown as boolean) as boolean 20

**MacPressKey(keychar as integer, virtualkey as integer, keydown as boolean) as boolean**

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

**Function:** Presses the given key.

**Notes:**

keychar is the ASCII code of the key you press and virtualkey is the key code.

Returns true on success.

Be aware that the user may get into trouble if you forget to release a key you pressed before. So always call this method another time to release the key.

See also:

- 2.1.1 MacPressKey(keychar as integer, virtualkey as integer) as boolean 20

**MacPressOptionKey(keydown as boolean) as boolean**

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

**Function:** Presses the option key. (labeled with alt)

**Notes:**

Returns true on success.

Be aware that the user may get into trouble if you forget to release a key you pressed before. So always call this method another time to release the key.

### **MacPressShiftKey(keydown as boolean) as boolean**

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

**Function:** Presses the shift key.

**Notes:**

Returns true on success.

Be aware that the user may get into trouble if you forget to release a key you pressed before. So always call this method another time to release the key.

### **MacProcessCount as integer**

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

**Function:** Counts the high level processes.

**Example:**

```
msgBox str(remoteControlMBS.macprocessCount)
```

**MacProcessName(index as integer) as string**

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

**Function:** The name of the process with the given index.

**Example:**

```
dim i,c as integer

// search iChat and make it visible
c=remoteControlMBS.macprocesscount
for i=0 to c-1
if remoteControlMBS.macprocessname(i)="iChat" then
remoteControlMBS.macprocessVisible(i)=true
end if
next
```

**Notes:** Index is from 0 to MacProcessCount-1.

**MacProcessVisible(index as integer) as boolean**

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

**Function:** Whether a process is visible or not.

**Example:**

```
dim i,c as integer

// search Safari and make it invisible
c=remoteControlMBS.macprocesscount
for i=0 to c-1
if remoteControlMBS.macprocessname(i)="Safari" then
remoteControlMBS.macprocessVisible(i)=false
end if
next
```

**Notes:**

Index is from 0 to MacProcessCount-1.  
(Read and Write computed property)

**MacTextForKeyCode(keycode as integer, KeyAction as integer, ModifierState as integer) as string**

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

**Function:** Translates a keycode to a string.

**Notes:**

Works only with Unicode keyboard layouts which need Mac OS X 10.5.

Modifier values:

Command Key	1
Shift	2
CapsLock	4
Option	8
Control	16

Possible constants for the Key Action:

kUKeyActionDown	The user is pressing the key.
kUKeyActionUp	The user is releasing the key.
kUKeyActionAutoKey	The user has the key in an auto-key pressed state that is, the user is holding down the key for an extended period of time and is thereby generating multiple key strokes from the single key.
kUKeyActionDisplay	The user is requesting information for key display, as in the Key Caps application.

**MouseClicked(x as integer, y as integer, down as boolean) as boolean**

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

**Function:** Performs a mouse click.

**Notes:**

The mouse cursor is moved to the given position and the first mouse button is pressed.  
Returns true on success.

### **MoveMouse(x as integer, y as integer) as boolean**

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

**Function:** Moves the mouse to the given location.

**Notes:** Returns true on success.

### **PressControlKey(keydown as boolean) as boolean**

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

**Function:** Presses the ctrl key.

**Notes:** Returns true on success.

### **PressOptionKey(keydown as boolean) as boolean**

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

**Function:** Presses the option key.

**Notes:** Returns true on success.

### **PressShiftKey(keydown as boolean) as boolean**

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Works, Windows: Works, Linux x86: Works.

**Function:** Presses the shift key.

**Notes:** Returns true on success.

### **WinCurrentProcessID as integer**

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

**Function:** Returns the process ID of your application.

**Notes:** Returns 0 on any error.

### **WinFindWindow(ClassName as string, WindowName as string) as integer**

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 10.1, console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

**Function:** Finds a window based on the classname and/or the window name.

**Example:**

```
dim h as integer = RemoteControlMBS.WinFindWindow("SciCalc", "")
msgbox hex(h)
```

**Notes:**

One of the names can be an empty string so only the other name is used. Normally you should prefer the class name as it is not localized. The WindowsListMBS class can help you finding the class name of a window.

Returns 0 on any error.

### **WinForegroundProcessID as integer**

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

**Function:** Returns the process ID of the application which owns the foreground window.

**Notes:** Returns 0 on any error.

### **WinFrontWindowTitle as string**

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

**Function:** The title of the window which has the focus.

**Example:**

```
title=remoteControlMBS.winfrontWindowTitle
```

**Notes:** May return "" on any error.

### **WinKeyboardName as string**

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

**Function:** Returns the name of the current Windows keyboard layout.

### **WinKeyIsDown(virtualkey as integer) as boolean**

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

**Function:** Tests whether a given key is currently pressed.

**WinMouseClicked(x as integer, y as integer, AbsolutePosition as boolean, MouseButton1 as boolean) as boolean**

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

**Function:** Performs a mouse click on the given position.

**Notes:**

If AbsolutePosition is false the given coordinates are relative to the current position.  
Returns true on success.

Be aware that the user may get into trouble if you forget to release a mouse button you pressed before. So always call this method another time to release the mouse buttons.

See also:

- 2.1.1 WinMouseClicked(x as integer, y as integer, AbsolutePosition as boolean, MouseButton1 as boolean, MouseButton2 as boolean) as boolean 27
- 2.1.1 WinMouseClicked(x as integer, y as integer, AbsolutePosition as boolean, MouseButton1 as boolean, MouseButton2 as boolean, MouseButton3 as boolean) as boolean 28

**WinMouseClicked(x as integer, y as integer, AbsolutePosition as boolean, MouseButton1 as boolean, MouseButton2 as boolean) as boolean**

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

**Function:** Performs a mouse click on the given position.

**Notes:**

If AbsolutePosition is false the given coordinates are relative to the current position.  
Returns true on success.

Be aware that the user may get into trouble if you forget to release a mouse button you pressed before. So always call this method another time to release the mouse buttons.

See also:

- 2.1.1 WinMouseClicked(x as integer, y as integer, AbsolutePosition as boolean, MouseButton1 as boolean)

as boolean 27

- 2.1.1 WinMouseClicked(x as integer, y as integer, AbsolutePosition as boolean, MouseButton1 as boolean, MouseButton2 as boolean, MouseButton3 as boolean) as boolean 28

**WinMouseClicked(x as integer, y as integer, AbsolutePosition as boolean, MouseButton1 as boolean, MouseButton2 as boolean, MouseButton3 as boolean) as boolean**

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

**Function:** Performs a mouse click on the given position.

**Notes:**

If AbsolutePosition is false the given coordinates are relative to the current position.  
Returns true on success.

Be aware that the user may get into trouble if you forget to release a mouse button you pressed before. So always call this method another time to release the mouse buttons.  
See also:

- 2.1.1 WinMouseClicked(x as integer, y as integer, AbsolutePosition as boolean, MouseButton1 as boolean) as boolean 27
- 2.1.1 WinMouseClicked(x as integer, y as integer, AbsolutePosition as boolean, MouseButton1 as boolean, MouseButton2 as boolean) as boolean 28

**WinMoveMouse(x as integer, y as integer) as boolean**

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

**Function:** Moves the mouse cursor to the given position.

**Notes:**

Returns true on success.

Internally the coordinates are converted to normalized absolute coordinates which can lead to have the mouse one pixel off the requested position due to rounding.

**WinPressControlKey(keydown as boolean) as boolean**

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

**Function:** Presses the ctrl key.

**Notes:**

Returns true on success.

Be aware that the user may get into trouble if you forget to release a key you pressed before. So always call this method another time to release the key.

**WinPressKey(ScanCode as integer) as boolean**

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

**Function:** Performs a key event with the given data.

**Notes:**

This methods creates a keydown and a keyup event.

Returns true on success.

See also:

- 2.1.1 WinPressKey(ScanCode as integer, keydown as boolean) as boolean 29
- 2.1.1 WinPressKey(virtualkey as integer, ScanCode as integer) as boolean 30
- 2.1.1 WinPressKey(virtualkey as integer, ScanCode as integer, keydown as boolean) as boolean 30

**WinPressKey(ScanCode as integer, keydown as boolean) as boolean**

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

**Function:** Performs a key event with the given data.

**Notes:**

Returns true on success.

Be aware that the user may get into trouble if you forget to release a key you pressed before. So always call this method another time to release the key.

See also:

- 2.1.1 WinPressKey(ScanCode as integer) as boolean 29
- 2.1.1 WinPressKey(virtualkey as integer, ScanCode as integer) as boolean 30
- 2.1.1 WinPressKey(virtualkey as integer, ScanCode as integer, keydown as boolean) as boolean 30

### **WinPressKey(virtualkey as integer, ScanCode as integer) as boolean**

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

**Function:** Performs a key event with the given data.

**Notes:**

This methods creates a keydown and a keyup event.

Returns true on success.

See also:

- 2.1.1 WinPressKey(ScanCode as integer) as boolean 29
- 2.1.1 WinPressKey(ScanCode as integer, keydown as boolean) as boolean 29
- 2.1.1 WinPressKey(virtualkey as integer, ScanCode as integer, keydown as boolean) as boolean 30

### **WinPressKey(virtualkey as integer, ScanCode as integer, keydown as boolean) as boolean**

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

**Function:** Performs a key event with the given data.

**Notes:**

Returns true on success.

Be aware that the user may get into trouble if you forget to release a key you pressed before. So always call this method another time to release the key.

See also:

- 2.1.1 WinPressKey(ScanCode as integer) as boolean 29
- 2.1.1 WinPressKey(ScanCode as integer, keydown as boolean) as boolean 29
- 2.1.1 WinPressKey(virtualkey as integer, ScanCode as integer) as boolean 30

### **WinPressOptionKey(keydown as boolean) as boolean**

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

**Function:** Presses the alt key.

**Notes:**

Returns true on success.

Be aware that the user may get into trouble if you forget to release a key you pressed before. So always call this method another time to release the key.

### **WinPressShiftKey(keydown as boolean) as boolean**

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

**Function:** Presses the shift key.

**Notes:**

Returns true on success.

Be aware that the user may get into trouble if you forget to release a key you pressed before. So always call

this method another time to release the key.

### **WinScanCodeToVirtualKeyCode(ScanCode as integer) as integer**

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

**Function:** Searches the virtual key code for the given scancode.

**Notes:**

Each key has a hardware dependend scan code. For each scancode you can get the virtual key code which is hardware independend.

Returns 0 on failure.

### **WinSendMessage(Win as window, Msg as integer, lParam as integer, wParam as integer) as integer**

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 10.1, console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

**Function:** Sends a Windows message to a given window.

**Example:**

```
const WM_CLOSE = & h0010
```

```
call RemoteControlMBS.SendMessage(window1, WM_CLOSE, 0, 0)
```

**Notes:** The result depends on the message command.

See also:

- 2.1.1 WinSendMessage(WindowHandle as integer, Msg as integer, lParam as integer, wParam as integer) as integer 33

**WinSendMessage**(WindowHandle as integer, Msg as integer, IParam as integer, WParam as integer) as integer

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 10.1, console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

**Function:** Sends a Windows message to a given window.

**Example:**

```
const WM_CLOSE = & h0010
dim h as integer = RemoteControlMBS.WinFindWindow("SciCalc","")
call RemoteControlMBS.WinSendMessage(h, WM_CLOSE, 0, 0) // Closes Calc
```

**Notes:** The result depends on the message command.

See also:

- 2.1.1 WinSendMessage(Win as window, Msg as integer, IParam as integer, WParam as integer) as integer 32

**WinVirtualKeyCodeToCharCode**(VirtualKeyCode as integer) as integer

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

**Function:** Queries the char code for a virtual key code.

**Notes:** Returns 0 on failure.

**WinVirtualKeyCodeToScanCode**(VirtualKeyCode as integer) as integer

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

**Function:** Finds the scan code to match the given virtual key code.

**Notes:** Returns 0 on failure.

**WinVirtualKeyForASCII(Character as integer, byref VirtualKeyCode as integer, Byref ShiftKey as boolean, byref ControlKey as Boolean, byref AltKey as boolean) as boolean**

method from class RemoteControlMBS, Remote Control, MBS REALbasic ComputerControl Plugin (RemoteControl), Plugin version: 8.4, console safe, Mac OS X: Does nothing, Windows: Works, Linux x86: Does nothing.

**Function:** Returns for a given character which combination of key code and modifiers created the character.

**Notes:**

For Character, you should use `asc(string)`, but you may need to convert the string to Windows ANSI text encoding.

Returns 0 on failure.

## 2.2 class PresskeyMBS

**class PresskeyMBS**

class, Remote Control, MBS REALbasic ComputerControl Plugin (Presskey), , console safe, Mac OS X: Works, Windows: Works, Linux x86: Does nothing.

**Function:** This class allows you to simulate keyboard activity.

### 2.2.1 Methods

**clear**

method from class PresskeyMBS, Remote Control, MBS REALbasic ComputerControl Plugin (Presskey), , console safe, Mac OS X: Works, Windows: Works, Linux x86: Does nothing.

**Function:** Resets this object.

**mouseclick(down as boolean)**

method from class PresskeyMBS, Remote Control, MBS REALbasic ComputerControl Plugin (Presskey), , console safe, Mac OS X: Works, Windows: Works, Linux x86: Does nothing.

**Function:** Clicks the mouse button.

**Notes:**

Clicks the mouse at current position.

Left button is used.

If you forget the mouseup you may loose control about a Mac with Mac OS X, but if you have enabled external terminal login you can login via SSH and quit Realbasic from outside.

The Mac version sets the lasterror property.

See also:

- 2.2.1 MouseClick(down as boolean, rightdown as boolean)

35

**MouseClick(down as boolean, rightdown as boolean)**

method from class PresskeyMBS, Remote Control, MBS REALbasic ComputerControl Plugin (Presskey), Plugin version: 8.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Does nothing.

**Function:** Clicks the mouse with the given buttons.

**Notes:** Same as MouseClick, but with an additional rightdown parameter.

See also:

- 2.2.1 mouseclick(down as boolean)

35

**MouseMove(globalx as integer,globaly as integer)**

method from class PresskeyMBS, Remote Control, MBS REALbasic ComputerControl Plugin (Presskey), , console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

**Function:** Moves the mouse.

**Example:**

```
dim x,y as integer
dim p as PresskeyMBS
```

```

p=new PresskeyMBS
x=system.mousex
y=system.mousey+10 // move ten pixels down
p.mousemove x,y

```

**Notes:**

Moves the mouse on screen.  
The destination must be specified in global screen coordinates.  
Requires Mac OS 8.5 or newer for Mac OS Classic.

**MouseMoveClick(globalx as integer,globaly as integer,down as boolean)**

method from class PresskeyMBS, Remote Control, MBS REALbasic ComputerControl Plugin (Presskey),  
Plugin version: 2.8, console safe, Mac OS X: Works, Windows: Works, Linux x86: Does nothing.

**Function:** Moves the mouse.

**Notes:**

Moves the mouse on screen and clicks.  
The destination must be specified in global screen coordinates.  
Requires Mac OS 8.5 or newer for Mac OS Classic.

The Mac version sets the lasterror property.

Mac OS X only:

Based on the values entered, the appropriate mouse-down, mouse-up, mouse-move, or mouse-drag events are generated, by comparing the new state with the current state.

See also:

- 2.2.1 MouseMoveClick(globalx as integer,globaly as integer,down as boolean, rightdown as boolean) 36

**MouseMoveClick(globalx as integer,globaly as integer,down as boolean, rightdown as boolean)**

method from class PresskeyMBS, Remote Control, MBS REALbasic ComputerControl Plugin (Presskey),  
Plugin version: 8.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Does nothing.

**Function:** Moves the mouse cursor and clicks the mouse with the given buttons.

**Notes:** Same as MouseMoveClick, but with an additional rightdown parameter.

See also:

- 2.2.1 MouseMoveClick(globalx as integer,globaly as integer,down as boolean)

36

## press

method from class PresskeyMBS, Remote Control, MBS REALbasic ComputerControl Plugin (Presskey), , console safe, Mac OS X: Works, Windows: Works, Linux x86: Does nothing.

**Function:** Presses a key.

**Example:**

' example for Mac OS X:

```
dim p as PresskeyMBS
```

```
p=new PresskeyMBS
p.shift=true
p.charcode=asc("H")
p.keycode=4
p.press 'press H
p.shift=false
p.charcode=asc("e")
p.keycode=14
p.press 'press e
p.charcode=asc("l")
p.keycode=37
p.press 'press l
p.press 'press l
p.charcode=asc("o")
p.keycode=31
p.press 'press o
```

' example for Windows:

```
editfield1.setfocus 'so we get something in it!
```

```
p=new PresskeyMBS
p.shift=true
p.charcode=asc("H")
p.virtualCode=-1 'automatically try to get this code
p.press 'press H
p.shift=false
p.virtualCode=-1 'after a call you find the virtualCode there
```

```

p.charcode=asc("e")
p.press 'press e
p.virtualCode=-1
p.charcode=asc("l")
p.press 'press l
p.press 'press l
p.virtualCode=-1
p.charcode=asc("o")
p.press 'press o

```

**Notes:**

Simulates a keypress and handles the Settings for Shift, Control, Command and Option key.

Command shows no reaction in my tests for Mac OS Classic

On Windows, if you set virtualcode=-1 this method will set it to the code matching the charcode property.

The Mac version sets the lasterror property.

**pressraw(down as boolean)**

method from class PresskeyMBS, Remote Control, MBS REALbasic ComputerControl Plugin (Presskey), , console safe, Mac OS X: Works, Windows: Works, Linux x86: Does nothing.

**Function:** Presses a key.

**Example:**

' Works perfectly on Mac OS X but Shift can't be done Raw on Mac OS 9:

```
dim p as PresskeyMBS
```

```
p=new PresskeyMBS
```

```
p.charcode=0
```

```
p.keycode=& h38
```

```
p.pressraw true 'shift down
```

```
p.charcode=asc("H")
```

```
p.keycode=4
```

```
p.pressraw true 'press H
```

```
p.pressraw false
```

```
p.charcode=0
```

```

p.keyCode=& h38
p.pressraw false 'shift up

p.charcode=asc("e")
p.keyCode=14
p.pressraw true 'press e
p.pressraw false
p.charcode=asc("l")
p.keyCode=37
p.pressraw true 'press l
p.pressraw false
p.pressraw true 'press l
p.pressraw false
p.charcode=asc("o")
p.keyCode=31
p.pressraw true 'press o
p.pressraw false

```

**Notes:**

Simulates a keypress and doesn't handle the Settings for Shift, Control, Command and Option key. On Windows, if you set virtualcode=-1 this method will set it to the code matching the charcode property.

The Mac version sets the lasterror property.

**2.2.2 Properties****Charcode as integer**

property from class PresskeyMBS, Remote Control, MBS REALbasic ComputerControl Plugin (Presskey), , console safe, Mac OS X: Works, Windows: Works, Linux x86: Does nothing.

**Function:** The character you want to press.

**Example:**

```

dim p as PresskeyMBS

p=new PresskeyMBS
p.charcode=8
p.keyCode=& h33

```

```
p.press // press backspace on Mac OS
```

**Notes:**

On Mac OS Classic the final printed charcode inside an editfield is the one you pass.  
(Read and Write property)

**Command as boolean**

property from class PresskeyMBS, Remote Control, MBS REALbasic ComputerControl Plugin (Presskey),  
, console safe, Mac OS X: Works, Windows: Works, Linux x86: Does nothing.

**Function:** Tells the Press method to press down command key before and release it after it simulates the key press.

**Example:**

```
dim p as new PresskeyMBS  
p.command=True
```

**Notes:**

It looks like the command key is not working for Mac OS Classic.  
On Windows the control key is pressed if control or command properties are true.  
(Read and Write property)

**Control as boolean**

property from class PresskeyMBS, Remote Control, MBS REALbasic ComputerControl Plugin (Presskey),  
, console safe, Mac OS X: Works, Windows: Works, Linux x86: Does nothing.

**Function:** Tells the Press method to press down control key before and release it after it simulates the key press.

**Example:**

```
dim p as new PresskeyMBS  
p.Control=True
```

**Notes:**

On Windows the control key is pressed if control or command properties are true.  
(Read and Write property)

**Keycode as integer**

property from class PresskeyMBS, Remote Control, MBS REALbasic ComputerControl Plugin (Presskey),  
, console safe, Mac OS X: Works, Windows: Works, Linux x86: Does nothing.

**Function:** For Mac OS the number of the key on the keyboard which is pressed.

**Example:**

```
dim p as PresskeyMBS
p=new PresskeyMBS
p.keycode=2
p.charcode=asc("d")
p.press 'shows a "d" on Mac OS
```

**Notes:**

You find this codes in that nice tables for the codes of the Spritesurface in the Realbasic books.  
(Read and Write property)

**Lasterror as integer**

property from class PresskeyMBS, Remote Control, MBS REALbasic ComputerControl Plugin (Presskey),  
Plugin version: 3.3, console safe, Mac OS X: Works, Windows: Works, Linux x86: Does nothing.

**Function:** The last error code.

**Notes:**

Not all functions of this class fill this property!  
(Read and Write property)

### Option as boolean

property from class PresskeyMBS, Remote Control, MBS REALbasic ComputerControl Plugin (Presskey),  
, console safe, Mac OS X: Works, Windows: Works, Linux x86: Does nothing.

**Function:** Tells the Press method to press down option key before and release it after it simulates the key press.

**Example:**

```
dim p as PresskeyMBS  
p.option=True
```

**Notes:** (Read and Write property)

### Shift as boolean

property from class PresskeyMBS, Remote Control, MBS REALbasic ComputerControl Plugin (Presskey),  
, console safe, Mac OS X: Works, Windows: Works, Linux x86: Does nothing.

**Function:** Tells the Press method to press down shift before and release it after it simulates the key press.

**Example:**

```
dim p as PresskeyMBS  
  
p=new PresskeyMBS  
p.shift=true  
p.charcode=asc("1")  
p.keycode=18  
p.press 'press !
```

**Notes:** (Read and Write property)

### VirtualCode as integer

property from class PresskeyMBS, Remote Control, MBS REALbasic ComputerControl Plugin (Presskey), console safe, Mac OS X: Works, Windows: Works, Linux x86: Does nothing.

**Function:** The virtual keycode to press.

**Example:**

```
dim p as PresskeyMBS
p=new PresskeyMBS
p.charcode=asc("m")
p.virtualcode=-1
p.press ' makes a "m" on Windows.
```

**Notes:**

If you don't know this code, just pass -1 and this value will be filled automatically using the charcode property.

After you call press or pressraw you'll find the matching virtualcode in this property.

(Read and Write property)

## 2.3 class GammaFadeMBS

**class GammaFadeMBS**

class, Remote Control, MBS REALbasic ComputerControl Plugin (Gamma), Plugin version: 8.4, console safe, Mac OS X: Works, Windows: Works, Linux x86: Does nothing.

**Function:** A class to perform gamma fades on Mac OS X and Windows.

**Notes:** On Mac OS X a system API is used. On Windows the GammaMBS class is used internally.

### 2.3.1 Methods

#### Constructor

method from class GammaFadeMBS, Remote Control, MBS REALbasic ComputerControl Plugin (Gamma), Plugin version: 8.4, console safe, Mac OS X: Works, Windows: Works, Linux x86: Does nothing.

**Function:** Initializes the gamma fade class and queries the current gamma values.

**Notes:**

On Windows a window is needed to get the exclusive access to the gamma controls.

The Available property is set to true if the constructor was successful.

See also:

- 2.3.1 Constructor(mainwindow as window) 44

#### Constructor(mainwindow as window)

method from class GammaFadeMBS, Remote Control, MBS REALbasic ComputerControl Plugin (Gamma), Plugin version: 8.4, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Does nothing.

**Function:** Initializes the gamma fade class and queries the current gamma values.

**Notes:**

On Windows a window is needed to get the exclusive access to the gamma controls.

The Available property is set to true if the constructor was successful.

See also:

- 2.3.1 Constructor 44

#### GammaFadeIn(seconds as double) as boolean

method from class GammaFadeMBS, Remote Control, MBS REALbasic ComputerControl Plugin (Gamma), Plugin version: 8.4, console safe, Mac OS X: Works, Windows: Works, Linux x86: Does nothing.

**Function:** Fades back to the normal screen.

**Notes:**

Seconds is the duration of the fade in seconds. Typical 0.3 seconds.  
Returns true on success and false on failure.

### **GammaFadeOut(seconds as double) as boolean**

method from class GammaFadeMBS, Remote Control, MBS REALbasic ComputerControl Plugin (Gamma),  
Plugin version: 8.4, console safe, Mac OS X: Works, Windows: Works, Linux x86: Does nothing.

**Function:** Fades to a solid color.

**Notes:**

Seconds is the duration of the fade in seconds. Typical 0.5 seconds.  
Returns true on success and false on failure.

## **2.3.2 Properties**

### **Available as Boolean**

property from class GammaFadeMBS, Remote Control, MBS REALbasic ComputerControl Plugin (Gamma),  
Plugin version: 8.4, console safe, Mac OS X: Works, Windows: Works, Linux x86: Does nothing.

**Function:** Whether the constructor was successful.

**Notes:**

True if the initialization code worked.

On Mac OS X the constructor fails to get access if there is another gamma fade running.

On Windows the access to the gamma controls can fail if you don't provide a window, the hardware can't do gamma fades (e.g. running in VMWare) or DirectX is not available.

(Read and Write property)

### FadeColor as Color

property from class GammaFadeMBS, Remote Control, MBS REALbasic ComputerControl Plugin (Gamma), Plugin version: 8.4, console safe, Mac OS X: Works, Windows: Works, Linux x86: Does nothing.

**Function:** The color to use for the fade.

**Example:**

```
dim g as new GammaFadeMBS
g.FadeColor=& c0000FF // blue
```

**Notes:**

Default is black.

(Read and Write property)

## 2.4 class KeyCodesMBS

### class KeyCodesMBS

class, Remote Control, MBS REALbasic ComputerControl Plugin (KeyCodes), Plugin version: 2.8, console safe, Mac OS X: Works, Windows: Works, Linux x86: Does nothing.

**Function:** A class for translating between key codes and ASCII characters.

**Notes:**

The list of key codes on a Mac is the same as the one used in the RB documentation for the sprite surface. Some special keys:

Key codes for Windows:

## Modifier keys

kVirtualCapsLockKey	& h039
kVirtualShiftKey	& h038
kVirtualControlKey	& h03B
kVirtualOptionKey	& h03A
kVirtualCommandKey	& h037

## Editing/utility keys

kVirtualHelpKey	& h072
kVirtualDeleteKey	& h033
kVirtualTabKey	& h030
kVirtualEnterKey	& h04C
kVirtualReturnKey	& h024
kVirtualEscapeKey	& h035
kVirtualForwardDeleteKey	& h075

## Navigation keys

kVirtualHomeKey	& h073
kVirtualEndKey	& h002
kVirtualPageUpKey	& h074
kVirtualPageDownKey	& h079
kVirtualLeftArrowKey	& h07B
kVirtualRightArrowKey	& h07C
kVirtualUpArrowKey	& h07E
kVirtualDownArrowKey	& h07D

### 2.4.1 Methods

**AsciiToKeyCode(ascii as integer) as integer**

method from class KeyCodesMBS, Remote Control, MBS REALbasic ComputerControl Plugin (KeyCodes), Plugin version: 2.8, console safe, Mac OS X: Works, Windows: Works, Linux x86: Does nothing.

**Function:** Returns the keycode which is needed to be pressed to create this ASCII character.

**Notes:** You get the main key, not any modifier which may also be pressed.

**KeyCodeToAscii(keycode as integer) as integer**

method from class KeyCodesMBS, Remote Control, MBS REALbasic ComputerControl Plugin (KeyCodes), Plugin version: 2.8, console safe, Mac OS X: Works, Windows: Works, Linux x86: Does nothing.

**Function:** Returns the ASCII code which matches the key code.

**Example:**

```

dim k as KeyCodesMBS

k=new KeyCodesMBS

// makes a big A on a german keyboard:
MsgBox chr(k.KeyCodeToAsciiWithSecondKeyCode(0+512))

```

**Notes:**

Note on a Mac:

Bit 0 to 6 are the keycode, bit 7 is 1 if key goes up and 0 if key goes down.

Bit 8 to 15 are modifier keys:

Constants for the modifier keys:

**KeyCodeToAsciiWithSecondKeyCode(keycode as integer) as integer**

method from class KeyCodesMBS, Remote Control, MBS REALbasic ComputerControl Plugin (KeyCodes), Plugin version: 3.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Does nothing.

**Function:** Returns the ASCII code which matches the key code with the current state.

**Example:**

```

dim k as KeyCodesMBS

k=new KeyCodesMBS

MsgBox str(k.KeyCodeToAscii(& h0A))
MsgBox chr(k.KeyCodeToAsciiWithSecondKeyCode(0))

// gives  on a German Keyboard

```

**Notes:**

On the first call of KeyCodeToAscii you get the ASCII char, but if you call KeyCodeToAsciiWithSecondKeyCode and the state property is not changed, you can get what the user gets if he presses several keys.

KeyCodeToAscii resets state to 0 before calling.

On Windows, KeyCodeToAscii and KeyCodeToAsciiWithSecondKeyCode are equal.

Note on a Mac:

Bit 0 to 6 are the keycode, bit 7 is 1 if key goes up and 0 if key goes down.

Bit 8 to 15 are modifier keys:

Constants for the modifier keys:

### **TestForAsciiKeyDown(ascii as integer) as boolean**

method from class KeyCodesMBS, Remote Control, MBS REALbasic ComputerControl Plugin (KeyCodes), Plugin version: 2.8, console safe, Mac OS X: Works, Windows: Works, Linux x86: Does nothing.

**Function:** Returns true if the key with the given ascii code is pressed.

### **TestForKeyDown(keycode as integer) as boolean**

method from class KeyCodesMBS, Remote Control, MBS REALbasic ComputerControl Plugin (KeyCodes), Plugin version: 2.8, console safe, Mac OS X: Works, Windows: Works, Linux x86: Does nothing.

**Function:** Returns true if the key with the given key code is pressed.

### **Update**

method from class KeyCodesMBS, Remote Control, MBS REALbasic ComputerControl Plugin (KeyCodes), Plugin version: 2.8, console safe, Mac OS X: Works, Windows: Does nothing, Linux x86: Does nothing.

**Function:** Updates the layout so it is the current one.

## 2.4.2 Properties

### LastError as Integer

property from class KeyCodesMBS, Remote Control, MBS REALbasic ComputerControl Plugin (KeyCodes), Plugin version: 2.8, console safe, Mac OS X: Works, Windows: Works, Linux x86: Does nothing.

**Function:** The last error code.

**Notes:**

The last function was successful if lasterror is 0.

If the last function was not available on this machine, the value is set to -1.

Other values are Mac OS error codes.

(Read and Write property)

### Name as String

property from class KeyCodesMBS, Remote Control, MBS REALbasic ComputerControl Plugin (KeyCodes), Plugin version: 2.8, console safe, Mac OS X: Works, Windows: Works, Linux x86: Does nothing.

**Function:** The name for the current keyboard layout.

**Notes:**

On Mac OS 9 e.g. "Deutsch".

On Mac OS X e.g. "German".

On Windows 98 e.g. "00020407".

(Read only property)

### State as Integer

property from class KeyCodesMBS, Remote Control, MBS REALbasic ComputerControl Plugin (KeyCodes), Plugin version: 3.1, console safe, Mac OS X: Works, Windows: Works, Linux x86: Does nothing.

**Function:** The last state.

**Notes:**

The function KeyCodeToAscii stores a code here which the function KeyCodeToAsciiWithSecondKeyCode will use on further calls.

(Read and Write property)

## 2.5 class GammaMBS

### class GammaMBS

class, Remote Control, MBS REALbasic ComputerControl Plugin (Gamma), Plugin version: 8.4, console safe, Mac OS X: Works, Windows: Works, Linux x86: Does nothing.

**Function:** A class to change the gamma settings of the display.

**Notes:**

You can use that class to change the gamma table. For example to invert the screen or increase/decrease one of the colors.

Works on Mac OS X and Windows.

### 2.5.1 Methods

#### Blue(Index as integer) as double

method from class GammaMBS, Remote Control, MBS REALbasic ComputerControl Plugin (Gamma), Plugin version: 8.4, console safe, Mac OS X: Works, Windows: Works, Linux x86: Does nothing.

**Function:** The blue value with the given index.

**Notes:**

Index is from 0 to 255 and value from 0.0 to 1.0.  
(Read and Write computed property)

#### Constructor

method from class GammaMBS, Remote Control, MBS REALbasic ComputerControl Plugin (Gamma), Plugin version: 8.4, console safe, Mac OS X: Works, Windows: Works, Linux x86: Does nothing.

**Function:** Initializes the gamma class and queries the current gamma values.

**Notes:**

On Windows a window is needed to get the exclusive access to the gamma controls.

The Available property is set to true if the constructor was successful.

See also:

- 2.5.1 Constructor(mainwindow as window)

52

### **Constructor(mainwindow as window)**

method from class GammaMBS, Remote Control, MBS REALbasic ComputerControl Plugin (Gamma), Plugin version: 8.4, not console safe, Mac OS X: Works, Windows: Works, Linux x86: Does nothing.

**Function:** Initializes the gamma class and queries the current gamma values.

**Notes:**

On Windows a window is needed to get the exclusive access to the gamma controls.

The Available property is set to true if the constructor was successful.

See also:

- 2.5.1 Constructor

51

### **Green(Index as integer) as double**

method from class GammaMBS, Remote Control, MBS REALbasic ComputerControl Plugin (Gamma), Plugin version: 8.4, console safe, Mac OS X: Works, Windows: Works, Linux x86: Does nothing.

**Function:** The green value with the given index.

**Notes:**

Index is from 0 to 255 and value from 0.0 to 1.0.

(Read and Write computed property)

**Red(Index as integer) as double**

method from class GammaMBS, Remote Control, MBS REALbasic ComputerControl Plugin (Gamma), Plugin version: 8.4, console safe, Mac OS X: Works, Windows: Works, Linux x86: Does nothing.

**Function:** The red value with the given index.

**Notes:**

Index is from 0 to 255 and value from 0.0 to 1.0.  
(Read and Write computed property)

**SetGamma(gammaScale as double=1.0) as boolean**

method from class GammaMBS, Remote Control, MBS REALbasic ComputerControl Plugin (Gamma), Plugin version: 8.4, console safe, Mac OS X: Works, Windows: Works, Linux x86: Does nothing.

**Function:** Sets the gamma values.

**Notes:**

The current table assigned to the main screen.  
All values are multiplied with gammaScale

## 2.5.2 Properties

**Available as Boolean**

property from class GammaMBS, Remote Control, MBS REALbasic ComputerControl Plugin (Gamma), Plugin version: 8.4, console safe, Mac OS X: Works, Windows: Works, Linux x86: Does nothing.

**Function:** Whether the constructor was successful.

**Notes:**

True if the initialization code worked.

On Mac OS X the constructor fails to get access if it does not find a display with gamma controls.

On Windows the access to the gamma controls can fail if you don't provide a window, the hardware can't do gamma fades (e.g. running in VMWare) or DirectX is not available.  
(Read and Write property)

VK_ LBUTTON	& h01
VK_ RBUTTON	& h02
VK_ CANCEL	& h03
VK_ MBUTTON	& h04
VK_ XBUTTON1	& h05 (Windows 2000 and newer)
VK_ XBUTTON2	& h06 (Windows 2000 and newer)
VK_ BACK	& h08
VK_ TAB	& h09
VK_ CLEAR	& h0C
VK_ RETURN	& h0D
VK_ SHIFT	& h10
VK_ CONTROL	& h11
VK_ MENU	& h12
VK_ PAUSE	& h13
VK_ CAPITAL	& h14
VK_ KANA	& h15
VK_ HANGUL	& h15
VK_ JUNJA	& h17
VK_ FINAL	& h18
VK_ HANJA	& h19
VK_ KANJI	& h19
VK_ ESCAPE	& h1B
VK_ CONVERT	& h1C
VK_ NONCONVERT	& h1D
VK_ ACCEPT	& h1E
VK_ MODECHANGE	& h1F
VK_ SPACE	& h20
VK_ PRIOR	& h21
VK_ NEXT	& h22
VK_ END	& h23
VK_ HOME	& h24
VK_ LEFT	& h25
VK_ UP	& h26
VK_ RIGHT	& h27
VK_ DOWN	& h28
VK_ SELECT	& h29
VK_ PRINT	& h2A
VK_ EXECUTE	& h2B
VK_ SNAPSHOT	& h2C
VK_ INSERT	& h2D
VK_ DELETE	& h2E
VK_ HELP	& h2F
VK_ 0 - VK_ 9	are the same as ASCII "0" - "9" (& h30 - & h39)
VK_ A - VK_ Z	are the same as ASCII "A" - "Z" (& h41 - & h5A)
VK_ LWIN	& h5B
VK_ RWIN	& h5C
VK_ APPS	& h5D
VK_ SLEEP	& h5F
VK_ NUMPAD0	& h60
VK_ NUMPAD1	& h61
VK_ NUMPAD2	& h62
VK_ NUMPAD3	& h63
VK_ NUMPAD4	& h64
VK_ NUMPAD5	& h65
VK_ NUMPAD6	& h66
VK_ NUMPAD7	& h67
VK_ NUMPAD8	& h68
VK_ NUMPAD9	& h69
VK_ MULTIPLY	& h6A
VK_ DIVIDE	& h6B
VK_ F1	& h70
VK_ F2	& h71
VK_ F3	& h72
VK_ F4	& h73
VK_ F5	& h74
VK_ F6	& h75
VK_ F7	& h76
VK_ F8	& h77
VK_ F9	& h78
VK_ F10	& h79
VK_ F11	& h80
VK_ F12	& h81
VK_ F13	& h82
VK_ F14	& h83
VK_ F15	& h84
VK_ F16	& h85
VK_ F17	& h86
VK_ F18	& h87
VK_ F19	& h88
VK_ F20	& h89
VK_ F21	& h90
VK_ F22	& h91
VK_ F23	& h92
VK_ F24	& h93
VK_ F25	& h94
VK_ F26	& h95
VK_ F27	& h96
VK_ F28	& h97
VK_ F29	& h98
VK_ F30	& h99

shiftKey	512	shift key down?
alphaLock	1024	alpha lock down?
optionKey	2048	option key down?
controlKey	4096	control key down?
rightShiftKey	8192	right shift key down?
rightOptionKey	16384	right Option key down?
rightControlKey	32768	right Control key down?

shiftKey	512	shift key down?
alphaLock	1024	alpha lock down?
optionKey	2048	option key down?
controlKey	4096	control key down?
rightShiftKey	8192	right shift key down?
rightOptionKey	16384	right Option key down?
rightControlKey	32768	right Control key down?

# Chapter 3

## List of all classes

• GammaFadeMBS	43
• GammaMBS	51
• KeyCodesMBS	46
• PresskeyMBS	34



## Chapter 4

### List of all modules

- RemoteControlMBS

7