

The 3D Message Box

The Visual Basic MsgBox subroutine and function lacks a three dimensional "look". The 3D MsgBox replicates the functions provided by VB's MsgBox and adds a three dimensional effect.

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Definitions:

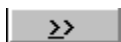
Calling Subroutine MsgBox3DSub

Calling Function MsgBox3DFun

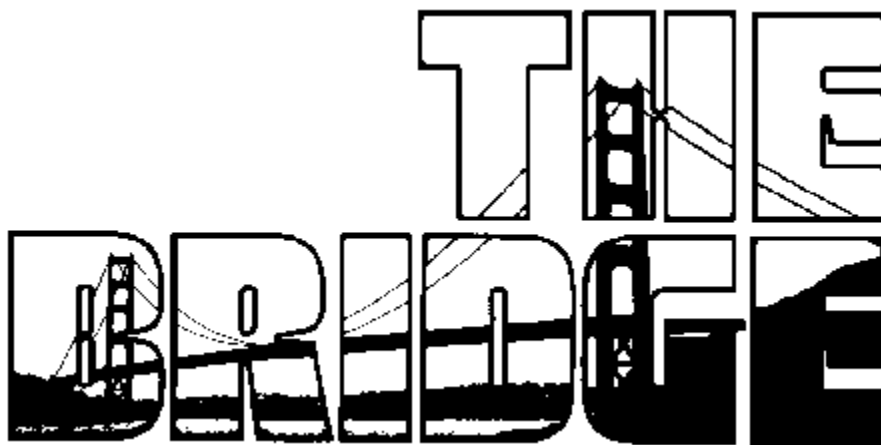
VB Constants used by MsgBox3D

VBRun300.DLL

ThreeD.VBX



Click on one of the above topics or click the Browse button to view additional documentation.



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Sample VB and 3D Message



VB Message



3D Message

MsgBox3D Components

System components:

<u>MsgBox3D.Frm</u>	Message Box Form
MsgBox3D.Frx	Binary Data
MsgBox3D.Bas	Subroutines, Functions and Globals

Demonstration components:

<u>MsgDmo3D.Exe</u>	Compiled Demo
MsgDmo3D.Mak	VB make file, used to run the demo
MsgDmo3D.Frm	Demonstrates 3D and VB Message Boxes
MsgDmo3D.Frx	Binary Data
MsgDmo3D.Bas	Demo subroutines, etc.
MsgBox3D.Hlp	This Help File
VBRun300.Dll	Visual Basic Runtime Support
ThreeD.VBX	Used for 3D Command effect

MsgBox3D.Frm and MsgBox3D.Bas

To provide three dimensional message box support include MsgBox3D.Frm and MsgBox3D.Bas with your Visual Basic project. Use the VB File, Add menu option to add the form and module. You will also need to add ThreeD.VBX.

Calling Sequence

The 3D MsgBox calling sequence is identical to the VB MsgBox calling sequence, except a subroutine is called use MsgBox3DSub. Call MsgBox3DFun for functions.

See MsgBox3DFun, MsgBox3DSub for details.

Supplied Arguments

VB's MsgBox accepts one, two or three arguments. MsgBox3D requires that you supply all three arguments. This is a VB limitation. See Converting from VB MsgBox to 3D MsgBox.

Constant.Txt

MsgBox3D uses the constants defined in VB's Constant.Txt file. Be sure to include the message box constants in your project.

###

MsgBox3DFun, MsgBox3DSub

The three dimensional appearing message box displays a message in a dialog box and waits for the user to choose a button. MsgBox3DFun function returns a value indicating which button the user has chosen; MsgBox3DSub does not.

Function Syntax

return = MsgBox3DFun(*message*, *type*, *title*)

Subroutine Syntax

MsgBox3DSub *message*, *type*, *title*

Remarks

Part **Description**


return Return code supplied by MsgBox3DFun. Integer data type.

The MsgBox3D function and statement both have these parts:

message String expression displayed as the message in the dialog box. String data type.

type Optional numeric expression that is the sum of values specifying the number and type of buttons to display, the icon style to use, the identity of the default button, and the modality. Integer data type. The following table illustrates the values used and the meaning of each group of values:

Symbolic Constant	Value	Meaning
-------------------	-------	---------

MB_OK	0	Display OK button only.
MB_OKCANCEL	1	Display OK and Cancel buttons.
MB_ABORTRETRYIGNORE	2	Display Abort, Retry, and Ignore buttons.
MB_YESNOCANCEL	3	Display Yes, No, and Cancel buttons.
MB_YESNO	4	Display Yes and No buttons.
MB_RETRYCANCEL	5	Display Retry and Cancel buttons.
MB_ICONSTOP	16	

MB_ICONQUESTION 32



MB_ICONEXCLAMATION 48



MB_ICONINFORMATION 64



MB_DEFBUTTON1 0 First button is default.

MB_DEFBUTTON2 256 Second button is default.

MB_DEFBUTTON3 512 Third button is default.

MB_APPLMODAL 0 Application modal. The user must respond to the message box before continuing work in the current application.

MB_SYSTEMMODAL 4096 System modal. The user must respond to the message box before continuing work in any application.

The first group of values (1-5) describes the number and type of buttons displayed in the dialog box; the second group (16, 32, 48, 64) describes the icon style; the third group (0, 256, 512) determines which button is the default; and the fourth group (0, 4096) determines the modality of the message box. When adding numbers to create a final value for the argument type, use only one number from each group. If omitted, the default value for type is 0.

title String expression displayed in the title bar of the dialog box. If you omit the argument title, MsgBox3D uses 'App.Title' and if none uses 'App.EXENAME'. Display a blank title by setting *title* to a space. String data type.

Displaying the Message

MsgBox3D displays as many characters as will fit in a LabelBox. Longer messages are truncated.

MsgBox3D breaks lines automatically at the right edge of the dialog box. If you want to set line breaks yourself, place a carriage return [ANSI character 13, Chr\$(13)] or a linefeed [ANSI 10, Chr\$(10)] before the first character of the text that is to begin each new line.

Returned Value

The MsgBox3D function *return* value indicates which button has been selected, as shown in the following table:

Symbolic constant	Value	Meaning
IDOK	1	OK button selected.
IDCANCEL	2	Cancel button selected.
IDABORT	3	Abort button selected.
IDRETRY	4	Retry button selected.
IDIGNORE	5	Ignore button selected.
IDYES	6	Yes button selected.
IDNO	7	No button selected.

If the dialog box displays a Cancel button, pressing the Esc key has the same effect as choosing Cancel.

Notes

Note: Symbolic constants for all message box definitions can be found in the Visual Basic file Constant.Txt. When placed in any module in a project, the symbolic names can be used in all your form and code modules.

Note: Most of this topic has been copied from Microsoft's Visual Basic Help file. It has been edited, where necessary, to describe MsgBox3D capabilities.

###

Converting from VB MsgBox to 3D MsgBox

Converting

Convert VB MsgBox statements to MsgBox3DSub subroutines. Convert VB MsgBox functions to MsgBox3DFun functions. For example the function:

```
RtnCode = MsgBox(TheMessage, MB_..., TheTitle)
```

when converted becomes:

```
RtnCode = MsgBox3DFun(TheMessage, MB_..., TheTitle)
```

Add Files

Add, if necessary, the following files to the VB project:

<u>MsgBox3D.Frm</u>	Message Box Form
<u>MsgBox3D.Bas</u>	Subroutines, Functions and Globals
Constant.Txt	Constants [MB_...] used by MsgBox3D
ThreeD.VBX	Used for 3D Command effect

Considerations

Same Number of Arguments - The *type* and *title* are not required with VB MsgBox, they are required with 3D MsgBox. A VB limitation - Argument Count Mismatch.

Data Type - The data type of the parameters passed to or returned from VB MsgBox can be *variant*. They must be either *string* or *integer* with 3D MsgBox. A VB limitation - Parameter Type Mismatch.

###

The Demo Program - MsgDmo3D.Exe

Program MsgDmo3D.Exe demonstrates the similarities and differences between VB's MsgBox and MsgBox3D. You may wish to review VB's help topic "*MsgBox Function, MsgBox Statement.*" MsgBox3D replicates the functionality of VB's MsgBox. MsgDmo3D is written in VB 3.0. It uses VBRUN300.DLL. Click on the following form for additional information about each section of the demo screen:

The screenshot shows a Windows-style dialog box titled "94/02/28 Demo 3D Message Box Functions 09:33:33". The dialog is divided into several sections for configuring a message box:

- Buttons:** A list of radio buttons for button styles: MB_OK, MB_OKCancel, MB_AbortRetryIgnore, MB_YesNoCancel (selected), MB_YesNo, and MB_RetryCancel.
- Icons:** A list of radio buttons for icon types: None, MB_IconStop, MB_IconQuestion, MB_IconExclamation, and MB_IconInformation (selected).
- Modal Type:** A list of radio buttons: MB_ApplModal (selected) and MB_SystemModal.
- Default Button:** A list of radio buttons: MB_DefButton1, MB_DefButton2, and MB_DefButton3 (selected).
- MsgBox or x=MsgBox():** A list of radio buttons: Subroutine and Function (selected).

Below these sections are input fields for the message and title:

- Message:** A text box containing "Sample Message: IIII Vel illum dolore, dolor sit amet, con secte".
- Title:** A text box containing "Title".
- Return:** A button labeled "IDYes [6]".

At the bottom of the dialog are four buttons: "VB MsgBox", "3D MsgBox" (highlighted with a dashed border), "Exit", and "Help".

Select desired option buttons then click the VB MsgBox or 3D MsgBox commands to display the standard or 3D message. Enter new message or title text to display a message containing that text.

###

MsgBox3D Order Form

Use WinHelp's print topic function [File, Print Topic] to print this order form.

MsgBox3D Components:

MsgBox3D.Frm	VB Source
MsgBox3D.Frx	Binary Data for above
MsgBox3D.Bas	Subroutines, Functions, Globals
MsgBox3D.Ico	Icon
MsgBox3D.Hlp	Help File
MsgDmo3D.Frm	Demo Source
MsgDmo3D.Frx	Binary Data for above
MsgDmo3D.Bas	Demo Subroutines
MsgDmo3D.Mak	VB Make File for Demo
ThreeD.Vbx	3D Controls
ReadMe.Txt	Current Information

Send MsgBox3D to:

Name: _____

Company: _____

Address: _____

City/State/ZIP _____

Phone: _____

CompuServe: _____

Price:

Product: \$4.95 US [California purchases, add appropriate sales tax.]

Shipping: \$2.95 by US Postal Service, \$1.95 by CompuServe

Payment Method:

Check Visa MasterCard

If Credit Card, Number: _____,

Expires: _____ or order by phone: 415-697-2730

If Check, make payable to and Mail to:



**199 California Drive
Millbrae, CA 94030**

About MsgBox3D

While displaying a 3D message, click the right mouse button on a MsgBox3D Icon, or press F12, to display an "About" box.



Calling Subroutine MsgBox3DSub

A typical MsgBox3DSub calling sequence:

MsgBox3DSub *message, type, title*

For example:

MsgBox3DSub "A Sample Message", MB_IconQuestion + MB_OKCancel, "Title"

will create a three dimensional message box with a message and title as well as display a question mark icon and an OK and a Cancel button.

definition

Calling Function MsgBox3DFun

A typical MsgBox3DFun calling sequence:

```
RtnCode = MsgBox3DFun (message, type, title)
```

For example:

```
RtnCode = MsgBox3DFun ("Sample Message", MB_OKCancel, "Title")
```

will create a three dimensional message box with a message and title as well as an OK and a Cancel button. If the user clicks the OK button RtnCode will contain IDOK [1], otherwise it will contain IDCANCEL [2].

VB Constants used by MsgBox3D

```
' MsgBox parameters
Global Const MB_OK = 0           ' OK button only
Global Const MB_OKCANCEL = 1    ' OK and Cancel buttons
Global Const MB_ABORTRETRYIGNORE = 2 ' Abort, Retry, and Ignore buttons
Global Const MB_YESNOCANCEL = 3 ' Yes, No, and Cancel buttons
Global Const MB_YESNO = 4       ' Yes and No buttons
Global Const MB_RETRYCANCEL = 5 ' Retry and Cancel buttons
Global Const MB_ICONSTOP = 16   ' Critical message
Global Const MB_ICONQUESTION = 32 ' Warning query
Global Const MB_ICONEXCLAMATION = 48 ' Warning message
Global Const MB_ICONINFORMATION = 64 ' Information message
Global Const MB_DEFBUTTON1 = 0   ' First button is default
Global Const MB_DEFBUTTON2 = 256 ' Second button is default
Global Const MB_DEFBUTTON3 = 512 ' Third button is default
Global Const MB_APPLMODAL = 0    ' Application Modal Message Box
Global Const MB_SYSTEMMODAL = 4096 ' System Modal

' MsgBox return values
Global Const IDOK = 1           ' OK button pressed
Global Const IDCANCEL = 2      ' Cancel button pressed
Global Const IDABORT = 3       ' Abort button pressed
Global Const IDRETRY = 4       ' Retry button pressed
Global Const IDIGNORE = 5      ' Ignore button pressed
Global Const IDYES = 6         ' Yes button pressed
Global Const IDNO = 7          ' No button pressed
```

VBRun300.DLL - VB Dynamic Link Library

The demo program is written in Visual Basic. VBRun300.DLL is needed to run the demo. Make sure the Windows/System directory contains a copy of this Dynamic Link Library.

ThreeD.VBX - Three Dimensional Controls

ThreeD.VBX is distributed with Visual Basic. MsgBox3D uses its three dimensional command support. Add this VBX to your project if you plan to use MsgBox3D.

Buttons

Select the command button configuration to be displayed with the message box. In this example the Yes, No and Cancel buttons will be displayed.

Default Button

If more than one command button is displayed, set the default button by selecting one of the Default Button options. In the example the third [Cancel] button becomes the default

Icons

Select an Icon to be displayed with the 3D message. In this example an Information Icon will be displayed.

Modal Type

The Windows API supports either Application wide or System wide modal window display. An Application wide modal form must be "unloaded" before other forms in that application can be selected - other applications can be selected. A System wide modal window must be "unloaded" before any other application can be selected.

MsgBox3D uses Window's API SetSysModalWindow to set a system wide modal message. There are a few differences between the VB MsgBox and 3D MsgBox displayed in system modal form. Differences:

VB MsgBox

- No Title or Control Box in some cases.
- No border in some cases.

3D MsgBox

- Always have a Title and Control Box.
- Always have a border.

Subroutine or Function

Select either a subroutine or function option. In this example the Function option was selected.

Message

Message - Enter any desired message.

Carriage Return or Line Feed - You can use two vertical bars (`||`) to represent a carriage return. Use two backslashes (`\\`) to represent a line feed. The demo program converts these to an appropriate special character before calling `MsgBox3D`.

For example:

`This is the first line.||This is the second.||This is the third.`

Is displayed in the message box as:

This is the first line.
This is the second.
This is the third.

Note: `MsgBox3D` does not perform the conversion. The message text you supply to `MsgBox3D` must contain a carriage return or line feed if you want a line break to occur.

Title

Title - Enter any desired title. Maximum length is 78 characters. If blank, MsgBox3D will first use App.Title then App.EXENAME. Display a "blank" title by entering at least one space.

Return Code

Return Code - The value returned by the `MsgBox3DFun` indicates which button was selected. In this example the "Yes" button was selected. See: [MsgBox3DFun](#), [MsgBox3DSub](#) for valid return codes.

Standard VB Message

Click the VB Message command to display a standard Visual Basic message.

3D Message

Click the 3D Message command to display a three dimensional message.

