

# FirstButton™ DLL Documentation

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The latest DLL program was compiled using Visual Studio 2017.

The sample package includes:

FBlogo.sln FBlogo.suo FBlogo.vbproj FBClass1.vb registry helpers.vb Resource1.Designer.vb AssemblyInfo.vb

Required .NET Framework component libraries for compilation:

**These are not distributed with this component, and are not part of the Licensing of FirstButton™ Source Code, but are needed for successful program compilation with Visual Studio. If backward compatibility to Windows 98 is desired, older versions of the components such as 2.0.0.0 should be used.**

Reference Name	DLL	Version
System	System.dll	2.0.0.0
System.Data	System.Data.dll	2.0.0.0
System.Xml	System.Xml.dll	2.0.0.0

## How to call FirstButton.DLL from a program:

1) *Declare object with a unique name at the top of program, and variables to receive results from DLL*

```
Public [object] As New FirstButton.FBClass1
Dim returned_error_code As Long
Dim returned_error_text As String
```

2) *Declare object properties (values below are only for example purposes)*

```
[object].logo_company_name = "Sombreros in the Sun LLC"
[object].logo_brand_name = "Sombreros in the Sun"
[object].logo_company_url = "www.sombrerosinthesun.com"
[object].logo_new_guid = "{DED51647-3FFD-48da-9B48-814A053F6388}" 'for tools menu entry'
[object].logo_new_guid_2 = "{D294CEA5-4017-4cb1-8B95-054C4A2FB2AE}" 'for toolbar button'
[object].logo_toolbar_install_pos = "2"
[object].logo_IE7_toolbar_install_pos = "2"
[object].logo_install_tools = True
[object].logo_install_favorite = True
[object].logo_use_skipahead_logic = True (optional - default is false if left blank)
[object].logo_IE7_use_skipahead_logic = True (optional - default is false if left blank)
[object].logo_icon_1_value = 1
[object].logo_icon_2_value = 2
[object].logo_icon_3_value = 3
[object].logo_icon_4_value = 4
[object].logo_icon_5_value = 5
[object].logo_icon_6_value = 6
[object].logo_dest_path = "C:\Windows\system\sombreros.exe" 'file or URL containing Icon graphics'
```

3) *Call Function to Insert or Remove the specific ToolbarButton from the Internet Explorer Toolbar/CommandBar:*

To insert the button

```
returned_string = [object].install_button()
```

To remove the button

```
returned_string = [object].delete_button()
```

Following the function call, set return variables to receive results from the DLL:

```
returned_error_code = [object].logo_error_code
returned_error_text = [object].logo_error_text
```

## Parameters/Variables

These variables are defined in the `tgt_inst_Load Private Sub` of the FirstButton program `tgt_inst.vb`, and are used throughout the code to define important values used in the Toolbar Button.

**logo\_new\_guid** (*String*) If `logo_install_tools = true`, then a unique GUID for Windows to use for your Tools Menu extension is required here. Include beginning and ending brackets that are generated by `guidgen.exe`.  
Example: `logo_new_guid = "{1E796980-9CC5-11D1-A83F-00C04FC99D61}"`

**Remember to generate new GUIDs using GUIDGEN for your own code modifications!**

**logo\_new\_guid\_2** (*String*) **Required.** This should be set to a unique GUID for Windows to use when building a Toolbar Button based on the information in the FirstButton installer. This GUID value must be unique. Do not reuse the same GUID as in `logo_new_guid`.

**Remember to generate new GUIDs using GUIDGEN for your own code modifications!**

**logo\_brand\_name** (*String*) Your Brand Name that appears on the InfoTip for the ToolbarButton.

**logo\_company\_name** (*String*) Your company's name. Example: `logo_company_name = "Example, LLC"`

**logo\_company\_url** (*String*) Your company's website url that clicking on the ToolbarButton should direct the browser to  
example: `www.exampleco.com`

**logo\_default\_target\_pos** (*Integer*) For IE6: position on toolbar(relative) where the ToolbarButton should appear.  
Setting this value to 0 will place your ToolbarButton Left of the first currently appearing button on the user's IE toolbar.

Setting it to 1 will place it to the right of the first currently appearing button on the Toolbar.

**logo\_IE7\_default\_target\_pos** (*Integer*) For IE7, IE8, IE9, IE10, and IE11: position on the toolbar(relative) where the ToolbarButton should appear.

Setting this value to 0 will place your toolbarButton left of the first currently appearing button on the user's IE toolbar.

Setting it to 1 will place it to the right of the first currently appearing button on the Toolbar.

**logo\_IE7\_use\_skipahead\_logic** (*Boolean*) For IE7, IE8, IE9, IE10, and IE11: when a non-microsoft button appears ahead of the default target position,

If this value is set to 'true', then FirstButton will install your button 1 position to the left of that button, rather than at the default target position, so that it appears ahead of any other buttons.

**logo\_use\_skipahead\_logic** (*Boolean*) For IE6: when a non-microsoft button appears ahead of the default target position, if this value is set to 'true', then FirstButton will install your button 1 position to the left of that button, rather than at the default target position, so that it appears ahead of any other buttons.

**logo\_install\_favorite** (*Boolean*) When set to 'true', FirstButton will add a Favorites Link for your website, using the .exe installer file as a graphics source. The URL information will be used from `logo_company_url`.

**logo\_install\_tools** (*Boolean*) When set to 'true', FirstButton will add a Tools Menu link for your website, using the URL information from `logo_company_url`.

**logo\_icon\_1\_value** (*String*) Set to icon number that should be matched with Icon value 1 shown in the next section.  
Recommended value is 1 . (example: `logo_icon_1_value = 1`).

**logo\_icon\_2\_value** (*String*) Set to icon number that should be matched with Icon value 2 shown in the next section.  
Recommended value is 2 . (example: `logo_icon_2_value = 2`).

**logo\_icon\_3\_value** (*String*) Set to icon number that should be matched with Icon value 3 shown in the next section.  
Recommended value is 3 . (example: `logo_icon_3_value = 3`).

**logo\_icon\_4\_value** (*String*) Set to icon number that should be matched with Icon value 4 shown in the next section.  
Recommended value is 4 . (example: `logo_icon_4_value = 4`).

**logo\_icon\_5\_value** (*String*) Set to icon number that should be matched with Icon value 5 shown in the next section.  
Recommended value is 5 . (example: `logo_icon_5_value = 5`).

**logo\_icon\_6\_value** (*String*) Set to icon number that should be matched with Icon value 6 shown in the next section.  
Recommended value is **6** . (*example:logo\_icon\_6\_value* = 6).


**logo\_dest\_path** (*String*) This is the file or url location from which the Icons should be retrieved for the ToolbarButton that FirstButton is installing on the Internet Explorer Standard Toolbar.  
(*example:logo\_dest\_path* = "C:\Windows\System\example.dll")


## Icons


In the FirstButton Source Code, there are lines such as the following which are added to the registry, to direct Internet Explorer to the appropriate Icon size and graphics. The following is an explanation of the Icon number assignments and meanings:


```
(logo_app_path & ", " & logo_icon_1_value.ToString))
```


(Windows includes the numbers as part of the string designating the location of the icon for Internet Explorer).  
All of the below .ico files contain multiple icons, sized at 16x16, 20x20, 24x24, 32x32, and 48x48.


**logo\_icon\_1\_value** For IE7, IE8, IE9, IE10, and IE11 (desktop mode), this value is used for HotIcon and Icon sources  
For IE6, on Windows XP, this is used for Icon value for ToolbarButton (256 colors)  
(contains icon sizes 16x16, 20x20, 24x24, 32x32, 48x48) 

**logo\_icon\_2\_value** For IE6, on Windows XP, this is used for HotIcon value for ToolbarButton (256 colors, but grey toned)  
(contains icon sizes 16x16, 20x20, 24x24, 32x32, 48x48) 

**logo\_icon\_3\_value** For Windows 2000, IE 5.5 or 6, this is used for Icon (256 colors, suitable to IE6)  
(contains icon sizes 16x16, 20x20, 24x24, 32x32) 

**logo\_icon\_4\_value** For Windows 2000, IE 5.5 or 6, this is used for HotIcon [Mouse is over ToolbarButton]  
(256 colors, but grey toned)  
(contains icon sizes 16x16, 20x20, 24x24, 32x32) 

**logo\_icon\_5\_value** For Windows 98, Me, or NT, this is used for Icon value for ToolbarButton (16 colors)  
(contains icon sizes 16x16, 20x20, 24x24, 32x32) 

**logo\_icon\_6\_value** For Windows 98, Me, or NT, this is used for HotIcon [Mouse is over ToolbarButton]  
(16 colors, but grey toned)  
(contains icon sizes 16x16, 20x20, 24x24, 32x32) 

## Values returned from FirstButton.DLL:

**logo\_error\_code** - Returned as Long - 0, 8, or 12

**logo\_error\_text** - Returned as String - text error message describes the error code further

logo\_error\_code **0** = successful installation or deletion (removal) of Toolbar Button

logo\_error\_code **8** = Error in Parameters from calling program

logo\_error\_text - Check this field to identify Parameter that needs to be modified

logo\_error\_text = "GUID 1 Parameter not 38 Characters in length. Must also include Brackets. See logo\_new\_guid Parameter."

**Solution:** Check the value being passed for variable logo\_new\_guid. GUID passed must be 38 characters in length, including brackets and hyphens.

logo\_error\_text = "GUID 1 Parameter must include { in first position of string. See logo\_new\_guid Parameter."

**Solution:** Check the value being passed for variable logo\_new\_guid. The first character must be "{".

logo\_error\_text = "GUID 1 Parameter must include } in last (38th) position of string. See logo\_new\_guid Parameter."

**Solution:** Check the value being passed for variable logo\_new\_guid. The last character must be "}".

logo\_error\_text = "GUID 2 Parameter not 38 Characters in length. Must also include Brackets."

**Solution:** Check the value being passed for variable logo\_new\_guid\_2. GUID passed must be 38 characters in length, including brackets and hyphens.

logo\_error\_text = "GUID 2 Parameter must include { in first position of string. See logo\_new\_guid\_2 Parameter."

**Solution:** Check the value being passed for variable logo\_new\_guid\_2. The first character must be "{".

logo\_error\_text = "GUID 2 Parameter must include } in last (38th) position of string. See logo\_new\_guid\_2 Parameter."

**Solution:** Check the value being passed for variable logo\_new\_guid\_2. The last character must be "}".

logo\_error\_text = "Brand Name is required. See logo\_brand\_name Parameter."

**Solution:** The logo\_brand\_name parameter being passed is blank. Add a brand name for the toolbar button being installed.

logo\_error\_text = "Company Name is required. See logo\_company\_name Parameter."

**Solution:** The logo\_company\_name parameter being passed is blank. Add a company name for the toolbar button being installed.

logo\_error\_text = "Company URL is required. See logo\_company\_url Parameter."

**Solution:** The logo\_company\_url parameter being passed blank. This URL value will be used when the toolbar button is clicked, to direct the browser to that address.

logo\_error\_text = "logo\_toolbar\_install\_pos Parameter must be a numeric value. No quotes, commas, or alphabetic characters."

**Solution:** The logo\_toolbar\_install\_pos parameter being passed is a non-numeric value. Change this value to be a number of 0 or higher. 0 will install the toolbar button to the left-most position on the IE6 toolbar.

logo\_error\_text = "logo\_toolbar\_install\_pos Parameter is required. Numeric offset position for button to appear in (IE6)"

**Solution:** The logo\_toolbar\_install\_pos parameter being passed is blank. Change this value to be a number of 0 or higher. 0 will install the toolbar button to the left-most position on the IE6 toolbar.

logo\_error\_text = "logo\_ie7\_toolbar\_install\_pos Parameter must be a numeric value. No quotes, commas, or alphabetic characters."

**Solution:** The logo\_ie7\_toolbar\_install\_pos parameter being passed is a non-numeric value. Change this value to be a number of 0 or higher. 0 will install the toolbar button to the left-most position on the IE7 toolbar.

logo\_error\_text = "logo\_ie7\_toolbar\_install\_pos Parameter is required. Numeric offset position for button to appear in (IE7+)."

**Solution:** The logo\_ie7\_toolbar\_install\_pos parameter being passed is blank. Change this value to be a number of 0 or higher. 0 will install the toolbar button to the left-most position on the IE7 toolbar.

logo\_error\_text = "logo\_icon\_1\_value Parameter must be a numeric value. No quotes, commas, or alphabetic characters."

**Solution:** The logo\_icon\_1\_value parameter being passed is blank, or is a non-numeric value. Change this value to be a number of 0 or higher.

logo\_error\_text = "logo\_icon\_2\_value Parameter must be a numeric value. No quotes, commas, or alphabetic characters."

**Solution:** The logo\_icon\_2\_value parameter being passed is blank, or is a non-numeric value. Change this value to be a number of 0 or higher.

logo\_error\_text = "logo\_icon\_3\_value Parameter must be a numeric value. No quotes, commas, or alphabetic characters."

**Solution:** The logo\_icon\_3\_value parameter being passed is blank, or is a non-numeric value. Change this value to be a number of 0 or higher.

logo\_error\_text = "logo\_icon\_4\_value Parameter must be a numeric value. No quotes, commas, or alphabetic characters."

**Solution:** The logo\_icon\_4\_value parameter being passed is blank, or is a non-numeric value. Change this value to be a number of 0 or higher.

logo\_error\_text = "logo\_icon\_5\_value Parameter must be a numeric value. No quotes, commas, or alphabetic characters."

**Solution:** The logo\_icon\_5\_value parameter being passed is blank, or is a non-numeric value. Change this value to be a number of 0 or higher.

logo\_error\_text = "logo\_icon\_6\_value Parameter must be a numeric value. No quotes, commas, or alphabetic characters."

**Solution:** The logo\_icon\_6\_value parameter being passed is blank, or is a non-numeric value. Change this value to be a number of 0 or higher.

If logo\_dest\_path is empty (fewer than 3 characters):

logo\_error\_text = "Invalid path for Toolbar Button installation. Verify that logo\_dest\_path Parameter contains valid path and filename to use for Icons."

**Solution:** A valid file path needs to be passed, for the location of a source file (.exe or .dll), from which the icons for logo\_icon\_1\_value through logo\_icon\_6\_value can be retrieved.

logo\_error\_code 12 = Error occurred during Installation

logo\_error\_text = "May not have adequate authority to install Toolbar Button"

## Process for customizing the FirstButton™ Source Code for your own Toolbar Button

- With all program components in a single Windows folder, open **FBlogo.sln** with Visual Studio 2005 (or a more recent version of Visual Studio.)
- Use GUIDGEN.exe to generate 2 unique GUIDs {#####-####-####-####-#####} using the Registry Format option. One GUID will be used in the tgt\_inst.frm source code for the toolbar button, and another for the tools menu extension.

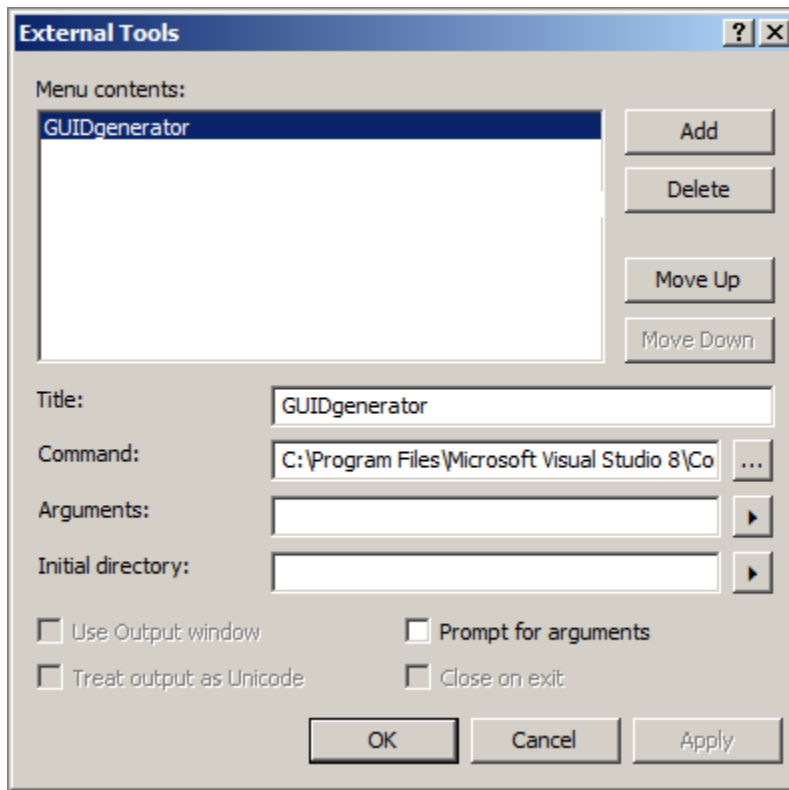
The default location for GUIDGEN.exe when VS 2005 is installed, is <C:\Program Files\Microsoft Visual Studio 8\Common7\Tools\GUIDGEN.exe>

Instructions for using GUIDGEN can be found at [http://msdn.microsoft.com/en-us/library/ms241442\(v=vs.80\).aspx](http://msdn.microsoft.com/en-us/library/ms241442(v=vs.80).aspx)

If GUIDGEN cannot be located, it can be downloaded from <https://www.microsoft.com/en-us/download/details.aspx?id=17252>

In my experience, GUIDGEN had to be added manually to the Tools menu options:

Select the Tools Menu, then External Tools, to open the External Tools box. Click on 'Add', and provide a meaningful Menu option title such as "GUIDgenerator", and point the Command to <C:\Program Files\Microsoft Visual Studio 8\Common7\Tools\GUIDGEN.exe>, or the location of GUIDGEN.exe on your computer.



GUIDGEN.exe can also be run outside of Visual Studio, by double-clicking the utility in Windows Explorer.

- Locate these values in your code that calls the FirstButton.DLL, and use the existing GUIDs that were just generated by GUIDGEN:  
`logo_new_guid = "{DED51647-3FFD-48da-9B48-814A053F6388}"` <- copy your 1<sup>st</sup> GUIDGEN value here  
`logo_new_guid_2 = "{D294CEA5-4017-4cb1-8B95-054C4A2FB2AE}"` <- copy your 2<sup>nd</sup> GUIDGEN value here

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