FirstButton™ DLL Documentation

The DLL program was compiled using Visual Studio 2005.

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 Toolbar Button 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
```

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 Toolbar Button.

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 Toolbar Button should direct the browser to
example: www.exampleco.com

logo_default_target_pos *(Integer)* For IE6: position on toolbar (relative) where the Toolbar Button should appear.
Setting this value to 0 will place your Toolbar Button 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 Toolbar Button should appear.
Setting this value to 0 will place your toolbar Button 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 Toolbar Button 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 Toolbar Button (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 Toolbar Button (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 Toolbar Button]
(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 Toolbar Button (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 Toolbar Button]
(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.
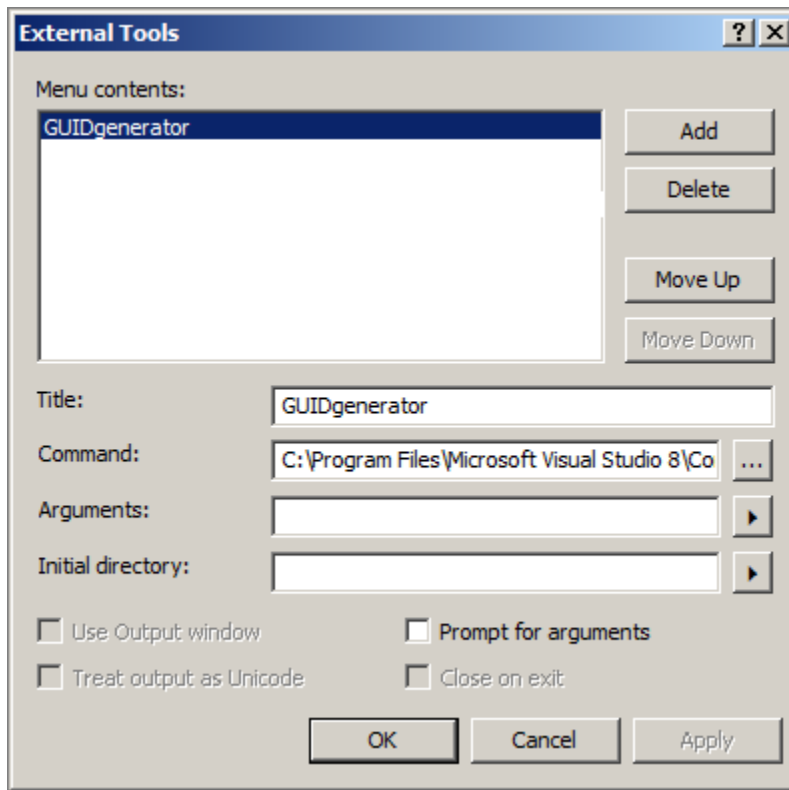 The default location for GUIDGEN.exe when VS 2005 is installed, is C:\Program Files\Microsoft Visual Studio 8\Common7\Tools\GUIDGEN.exe
  Instructions for using GUIDGEN can be found at http://msdn.microsoft.com/en-us/library/ms241442(v=vs.80).aspx
  If GUIDGEN cannot be located, it can be downloaded 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.

External Tools

Menu contents:

GUIDgenerator

Add
Delete
Move Up
Move Down

Title: GUIDgenerator

Command: C:\Program Files\Microsoft Visual Studio 8\Co ...

Arguments: ▶

Initial directory: ▶

☐ Use Output window   ☐ Prompt for arguments
☐ Treat output as Unicode   ☐ Close on exit

OK   Cancel   Apply

GUIDGEN.exe can also be run outside of Visual Studio, by doublie-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 1st GUIDGEN value here

    logo_new_guid_2 = "{D294CEA5-4017-4cb1-8B95-054C4A2FB2AE}" <- copy your 2nd GUIDGEN value here

Please send questions or concerns regarding this document to documents@firstbutton.com.

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