

Open Internet Explorer URL via VBA

<https://www.automateexcel.com/vba/automate-internet-explorer-ie-using/>

<https://stackoverflow.com/questions/62782892/bring-internet-explorer-download-window-to-focus-foreground-via-vba/62883797#62883797>

<https://stackoverflow.com/questions/41367209/how-can-i-maximize-an-ie-window-created-by-vba-with-shdocvw-internetexplorer-com>

<https://stackoverflow.com/a/39207730/5079799>

Functions:

```
#If VBA7 Then
'Code is running VBA7 (2010 or later).

    #If Win64 Then
    'Code is running in 64-bit version of Microsoft Office.
    Public Declare PtrSafe Function OpenClipboard Lib "user32" (ByVal hWnd As Long) As Long
    Public Declare PtrSafe Function CloseClipboard Lib "user32" () As Long
    Public Declare PtrSafe Function SetForegroundWindow Lib "user32" (ByVal hWnd As Long) As Long
    Public Declare PtrSafe Function ShowWindow Lib "user32" (ByVal hWnd As Long, ByVal nCmdShow As Long) As
Long
    Public Declare PtrSafe Function IsIconic Lib "user32.dll" (ByVal hWnd As Long) As Long
    #Else
    'Code is running in 32-bit version of Microsoft Office.
    Public Declare Function OpenClipboard Lib "user32" (ByVal hWnd As Long) As Long
    Public Declare Function CloseClipboard Lib "user32" () As Long
    Public Declare Function ShowWindow Lib "user32" (ByVal hWnd As Long, ByVal nCmdShow As Long) As Long
    Public Declare Function IsIconic Lib "user32.dll" (ByVal hWnd As Long) As Long
    Public Declare Sub Sleep Lib "kernel32" (ByVal dwMilliseconds As Long)
    Public Declare Function FindWindow Lib "user32" Alias "FindWindowA" (ByVal lpClassName As String, ByVal
lpWindowName As String) As Long
    Public Declare Function FindWindowEx Lib "user32" Alias "FindWindowExA" (ByVal hWnd1 As Long, ByVal hWnd2
As Long, ByVal lpsz1 As String, ByVal lpsz2 As String) As Long
    Public Declare Function SetForegroundWindow Lib "user32" (ByVal hWnd As Long) As Long
    Public Declare Function SendMessage Lib "user32" Alias "SendMessageA" (ByVal hWnd As Long, ByVal wParam As
Long, ByVal lParam As Long, lParam As Any) As Long
    Public Declare Function SendMessageByString Lib "user32" Alias "SendMessageA" (ByVal hWnd As Long, ByVal
wMsg As Long, ByVal wParam As Long, ByVal lParam As String) As Long
    #End If

#Else
'Code is running VBA6 (2007 or earlier).

#End If

Public Const BM_CLICK = &HF5
Public Const WM_SETTEXT = &HC
Public Const WM_GETTEXT = &HD
Public Const WM_GETTEXTLENGTH = &HE

Public IEObj As Object, HWNSrc As LongPtr
```

```

Public Sub OpenIEURL(URL As String, Optional ShowIEWindow As Boolean, Optional SecondURL As String)
    Application.Wait (Now() + TimeValue("00:00:01"))
    Set IEObj = CreateObject("InternetExplorer.Application")

    IEObj.navigate URL
    Do Until IEObj.readyState = 4
        DoEvents
    Loop
    If ShowIEWindow = True Then
        IEObj.Visible = True
        IEObj.TheaterMode = True
    End If

    If SecondURL <> "" Then
        IEObj.navigate SecondURL
    End If

    'Bring IEObj to Focus
    HWNDSrc = IEObj.hWnd
    'Debug.Print HWNDSrc

    If ShowIEWindow = True Then
        SetForegroundWindow HWNDSrc
        IEObj.Visible = False
        IEObj.Visible = True
        Call Activate_A_Window(URL)
    End If
End Sub

```

```

Public Sub Activate_A_Window(WindowName As String)
    Dim IE As Object
    Dim Windows As Object: Set Windows = CreateObject("Shell.Application").Windows
    Dim Window As Object
    Dim my_title As String

    For Each Window In Windows
        my_title = Window.LocationName
        Debug.Print "Window Title = " & my_title
        If InStr(1, my_title, WindowName) Then
            Set IE = Window
            Exit For
        End If
    Next Window

    If Not IE Is Nothing Then 'Make sure IE was found as a window
        If CBool(IsIconic(IE.hWnd)) Then ' If it's minimized, show it
            ShowWindow IE.hWnd, SW_RESTORE
        End If

        SetForegroundWindow IE.hWnd 'Set the window as the foreground
    Else
        Debug.Print (WindowName & " could not be located")
    End If
End Sub

```

```

Public Sub File_Download_Click_Save(HWNSrc As LongPtr)
'find and click save as button
Dim o As IUIAutomation
Dim h As LongPtr
Set o = New CUIAutomation
h = HWNSrc
IEObj.Visible = True
Dim e As IUIAutomationElement
Dim iCnd As IUIAutomationCondition
Dim Button As IUIAutomationElement
Set e = o.ElementFromHandle(ByVal h)
Set Button = Nothing
Set iCnd = o.CreatePropertyCondition(UIA_NamePropertyId, "Save")
Set Button = e.FindFirst(TreeScope_Subtree, iCnd)
Dim InvokePattern As IUIAutomationInvokePattern
Set InvokePattern = Button.GetCurrentPattern(UIA_InvokePatternId)
InvokePattern.Invoke
IEObj.Visible = False
End Sub

```

```

Public Sub CloseIEObj()
'Unload IE
IEObj.TheaterMode = False
Application.Wait (Now() + TimeValue("00:00:04"))
IEObj.Quit
Set IEObj = Nothing
Application.Wait (Now() + TimeValue("00:00:01"))
End Sub

```

Module:

```

Sub Test()
Dim URL As String
URL = "http://google.com"
Call OpenIEURL(URL, False)

'..Do Stuff

HWNSrc = IEObj.hWnd
Debug.Print "HWNSrc = " & HWNSrc
Application.Wait (Now() + TimeValue("00:00:4"))
Call File_Download_Click_Save(HWNSrc)

Call CloseIEObj
End Sub

```