

# Demo Script: DevCon 2024

## Download and Save Sample Code

1. Download [twinBASIC BETA 504](#)
2. Extract from Zip folder
3. Open twinBASIC > **Sample 4**
4. Enter Project Name: Demo 2024 (*Leave all other options at their defaults*)
5. Save as: %tmp%\Demo2024\Demo2024.twinproj
  1. Navigate to: %tmp%
  2. Create folder named: Demo2024
  3. Filename: Demo2024.twinproj

## Create the Tool Window Controls

1. Open myToolWindow.tbcontrol
2. Select all controls and delete them
3. Select form and set the following properties:
  - Height: 1700
  - Width: 2550
4. Create a text box and set the following properties:
  - Name: tbObjName
  - Anchors > Right:  True
  - Height: 300
  - Left: 150
  - Text: *{blank}*
  - TextHint: Object Class Name
  - Top: 150
  - Width: 2250
5. Create a text box and set the following properties:
  - Name: tbCollName
  - Anchors > Right:  True
  - Height: 300
  - Left: 150
  - Text: *{blank}*
  - TextHint: Collection Class Name
  - Top: 600
  - Width: 2250
6. Create a button and set the following properties:
  - Name: btnCreateClass
  - Anchors > Right:  True
  - Caption: Create Collection Class
  - Height: 450

- Left: 150
- Top: 1050
- Width: 2250

## Edit the Code in myToolWindow.twin




1. Delete the Timer1\_Timer() and HelloWorld\_Click() subroutines
2. Add a Click event handler for btnCreateClass using the code below

```
Private Sub btnCreateClass_Click()
    MsgBox "Object class name: " & Me.tbObjName.Text & vbNewLine & _
        "Collection class name: " & Me.tbCollName.Text, vbInformation,
"Create Class"
End Sub
```

## Build and Test the Addin on Same Machine

The following instructions assume a machine with 32-bit Office (e.g., mjw20):

1. Ensure "**win32**" is selected in dropdown
2. **File > Build**
  - Creates and registers this file:
    - M:\Repos\NLS\DevCon2024\Build\DevCon2024\_win32.dll
  - As part of registration, the following registry key and values are created:
    - HKEY\_CURRENT\_USER\SOFTWARE\Microsoft\VBA\VBE\6.0\Addins\DevCon2024.myAddIn\
      - Description: "DevCon2024"
      - FriendlyName: "DevCon2024"
      - LoadBehavior: 3 (3 => Loaded/Load at startup)
    - HKEY\_CLASSES\_ROOT\DevCon2024.myAddIn\CLSID
      - (Default): {9B80DA6E-8B20-4D53-AE54-430ACFAE987B} (this matches the [ClassID()] attribute value above the myAddIn class in myAddIn.twin)
    - HKEY\_CLASSES\_ROOT\DevCon2024.myToolWindow\CLSID
      - (Default): {D531346A-90B8-470D-AA33-FB009F19CEFD} (this matches the [ClassID()] attribute value above the myToolWindow class in myToolWindow.twin)
    - HKEY\_CLASSES\_ROOT\CLSID\{9B80DA6E-8B20-4D53-AE54-430ACFAE987B}
      - (Default): myAddIn
      - \InProcServer32
        - (Default):
          - M:\Repos\NLS\DevCon2024\Build\DevCon2024\_win64.dll (NOTE: The presence of win64.dll here is likely a result of running the win64 build as shown in the next section)




- ThreadingModel: Both
- \ProgID
  - (Default): DevCon2024.myAddIn
  - 
  - DEBUG CONSOLE should show this:
    - [LINKER] SUCCESS created output file  
'M:\Repos\NLS\DevCon2024\Build\DevCon2024\_win32.dll'
    - [LINKER] → Open Folder (*NOTE: this is a clickable link*)
    - [REGISTER] type-library registration completed. DllRegisterServer() returned OK
- 3. Open Excel or Access
- 4. Press [Alt] + [F11] to go to VBA IDE
- 5. Tool window will likely be floating; click and drag to dock it somewhere:
  - 
- 6. Enter Obj Name in the first text box, Coll Name in the second text box, then click [Create Collection Class]
  - 

## Build and Test the Addin on a Different Machine and Bitness

The following instructions assume you are building on a machine with 32-bit Office (mjlw20), but installing on a machine with 64-bit Office (e.g., gbm18):

1. Ensure "**win64**" is selected in dropdown
2. **File > Build**
3. I copied M:\Repos\NLS\DevCon2024\Build\DevCon2024\_win64.dll to %fb%\12114\DevCon2024\_win64.dll (I will test registering it tomorrow on gbm18)
4. Open a non-admin cmd prompt
5. Run: regsvr32 DevCon2024\_win64.dll
  - Receive message: "DllRegisterServer in DevCon2024\_win64.dll succeeded."
6. Open Word (or Excel) - The add-in appears.

## Copy and Paste Working VBA Code into twinBASIC

1. Add a standard code module named "MyModule":
  1. Right-click Sources > **Add > Add Module (.TWIN supporting Unicode)**
2. Go to  [Strongly-Typed Collections: The Easy Way](#)
  1. Copy and paste the  [GetGuidBasedTempPath code](#)
  2. Copy and paste the  [FileWrite code](#)
3. Handle "Unrecognized datatype symbol 'Scripting'" error in DIAGNOSTICS pane:
  1. Go to **Project > References**
  2. Switch to "Available COM References" tab
  3. Search for "script" and then click the "Microsoft Scripting Runtime" reference
  4. Click [Save Changes]

# Add fafalone's WinDevLib Package for API Calls

1. **Project > References...**
2. Switch to "Available Packages" tab
3. Search for "windows"
4. Check box next to " Windows Development Library for twinBASIC vX.Y.ZZZ"
  - The package will immediately begin downloading in the background
  - When the download finishes, the name will change to " [IMPORTED] Windows Development Library for twinBASIC vX.Y.ZZZ"
  - NOTE: "[WinDevLib for Implements](#)" is a different package
5. Click [Save Changes]
6. Comment out (or delete) API `\Declare\` lines throughout the project
  - Be aware that if you used non-standard `\Alias\` names, you may need to adjust your API calls to match the standard versions used in WinDevLib
  - **myAddIn.twin:**
    - Delete Private Type RECT structure
    - Delete GetClientRect() function declare
  - **InterProcess.twin:**
    - Delete GetCurrentProcessId() function declare line...
    - ...through Type UUID structure
  - **MyModule.twin:**
    - Delete Sleep sub declare
    - Comment out CoCreateGuid function declare and highlight the failure to compile due to the stricter typing of `id As UUID` in WinDevLib versus `id As Any` in my code
    - Uncomment the CoCreateGuid function to show that explicit API declares override the WinDevLib versions
7. Pass Unicode strings directly to API declare functions
  - Most string-related API functions have ANSI and Unicode versions ("A" and "W" for "ANSI" and "Wide", respectively)
  - Lots of legacy VB6/VBA code use the ANSI version of API functions
  - WinDevLib [encourages the use of Unicode versions](#) by default
  - This means that code that passes input strings to API functions may require wrapping the string in `\StrPtr()\` (or removing `\StrPtr()\`) from your existing code
  - Remove `StrPtr()` from calls to `FindWindowEx()` in `InterProcess.callerApplicationObject`
  - Convert final argument from `0&` to `vbNullString` for calls to `FindWindowEx()` in `InterProcess.callerApplicationObject`

From:

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Last update: **2024/04/15 04:05 UTC**

