

Run Excel from a SigmaPlot macro

SigmaPlot Automation integrates SigmaPlot with other Windows applications. With the macro recorder, you record keyboard and mouse events, and you can edit macro code in the macro edit window.

The SigmaPlot Automation Help shows how to use macros inside SigmaPlot, and also how to access SigmaPlot from other programs like VB: Visual Basic and VBA: Visual Basic for Applications (see the "Application Object" keyword).

In the ToolBox ribbon, you find comprehensive macros which access other programs from SigmaPlot. Examples: "Insert Graphs into Word" and "Paste to PowerPoint Slide".

Here is a simple example showing how to access Excel from SigmaPlot.

At first, in SigmaPlot's macro editor please register "Microsoft Excel" ## , under "Macro References" (right button), and save the notebook.

This macro

- opens Excel, with an empty workbook file
- lists the sheets in the Excel file
- enters some data into the first sheet
- prompts to close Excel

Sub Main

```
Dim appExcel As Excel.Application
Dim wbExcel As Excel.Workbook
```

```
Set appExcel = CreateObject("Excel.Application")
appExcel.Visible = True
Set wbExcel = appExcel.Workbooks.Add
```

```
'List the tab names
Dim sht As Excel.Worksheet
For Each sht In appExcel.Sheets
    MsgBox sht.Name
Next sht
```

```
'Add some data into tab 1
Set sht = appExcel.Sheets(1)
sht.Range("A1") = 42
sht.Range("A2") = 43
sht.Cells(3,1) = 44           '(Row first, Column second)!
```

```
MsgBox "Alt-Tab to view the Excel window" & vbCrLf & "Click OK to close
Excel",, "Excel has been opened from a SigmaPlot macro"
appExcel.DisplayAlerts = False
appExcel.Application.Quit
```

```
Set sht = Nothing
Set wbExcel = Nothing
Set appExcel = Nothing
```

End Sub