



# How to install Excel XPS macro on the Mac Excel 2016

hideki

Ver. 8.28

9 Jun. 2017

# Installation of macro in mac

- The process is almost the same as that in Windows version.
  - Personal macro workbook
  - Solver add-in and reference in VBE
  - Shortcut key for “p”
  - Database folder

🔍 Search All Templates



Sign in



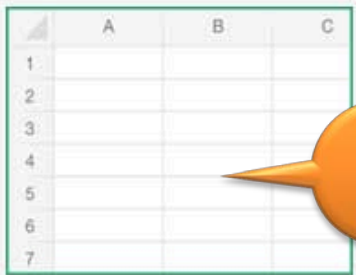
New



Recent



Open



Blank Workbook



Welcome to Excel



Make a List



Total a List

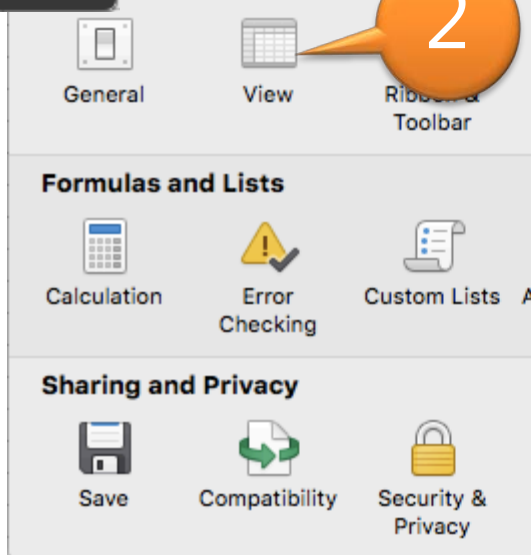
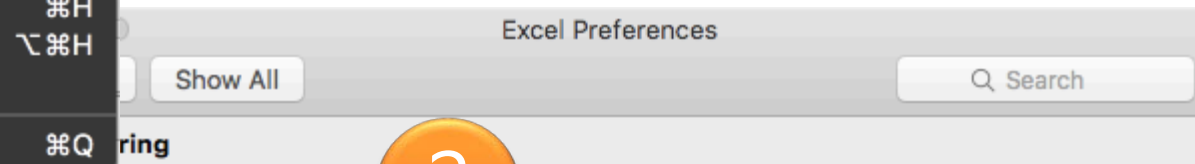
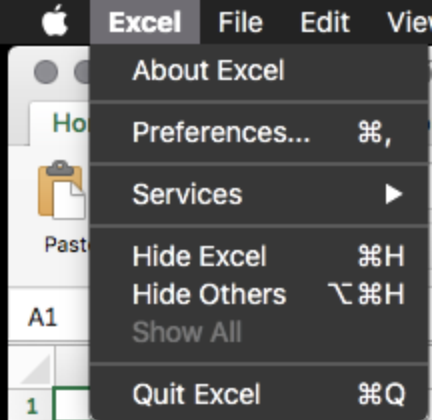


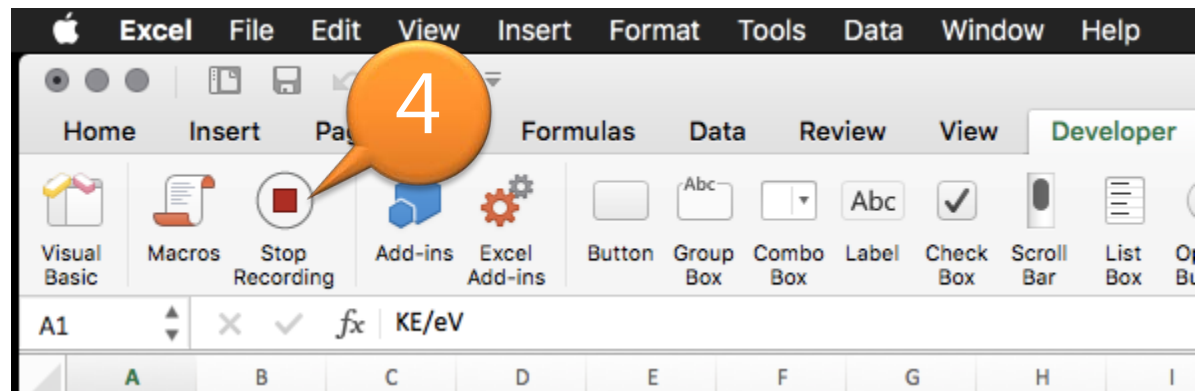
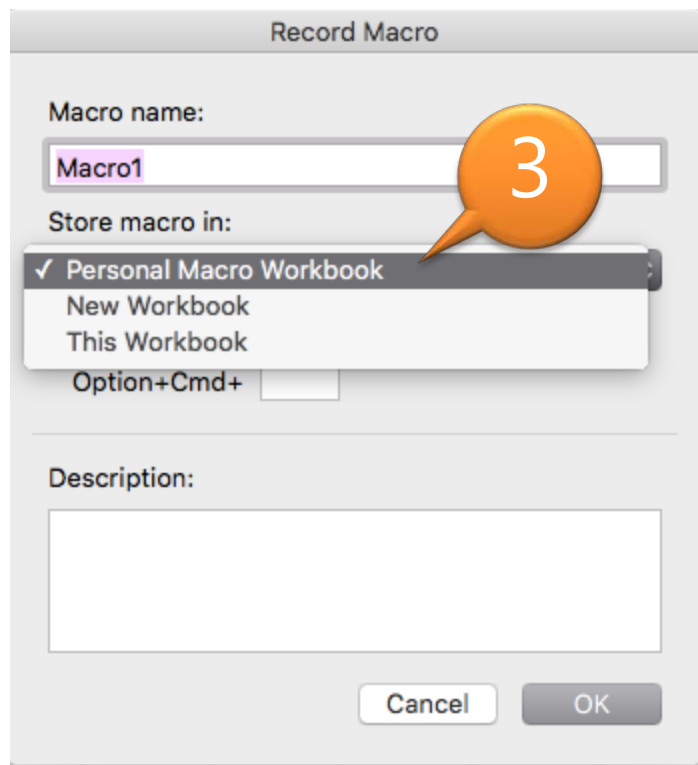
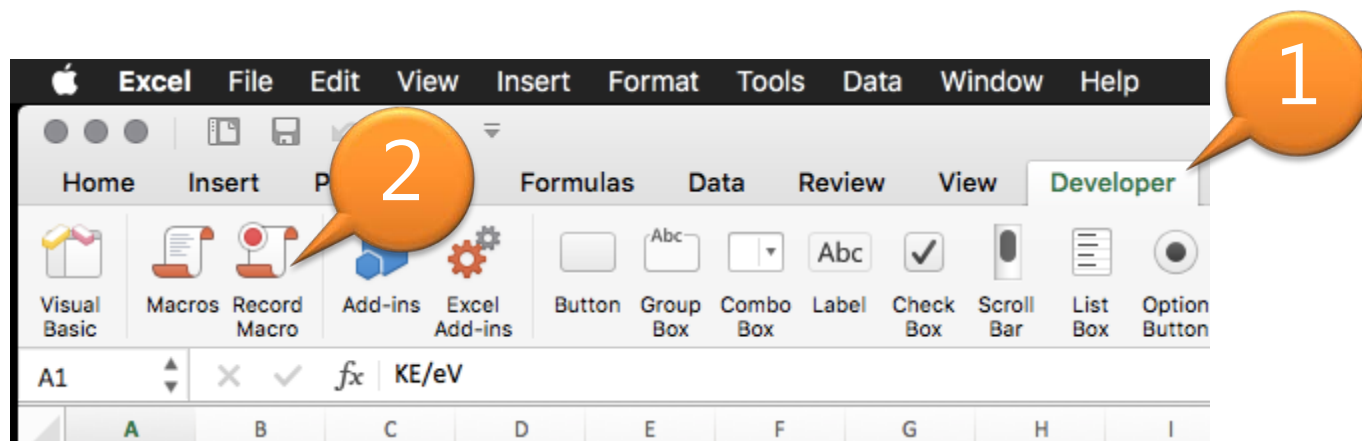
Track My Tasks

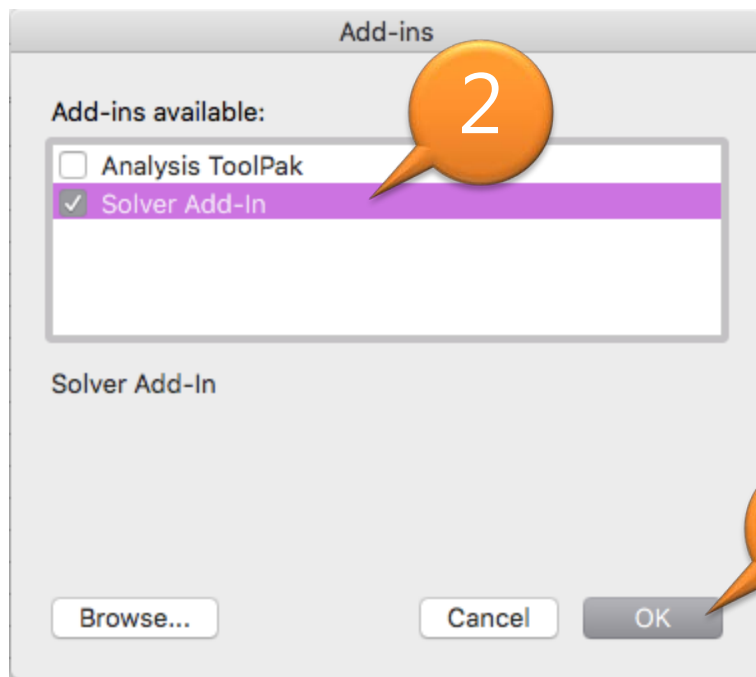
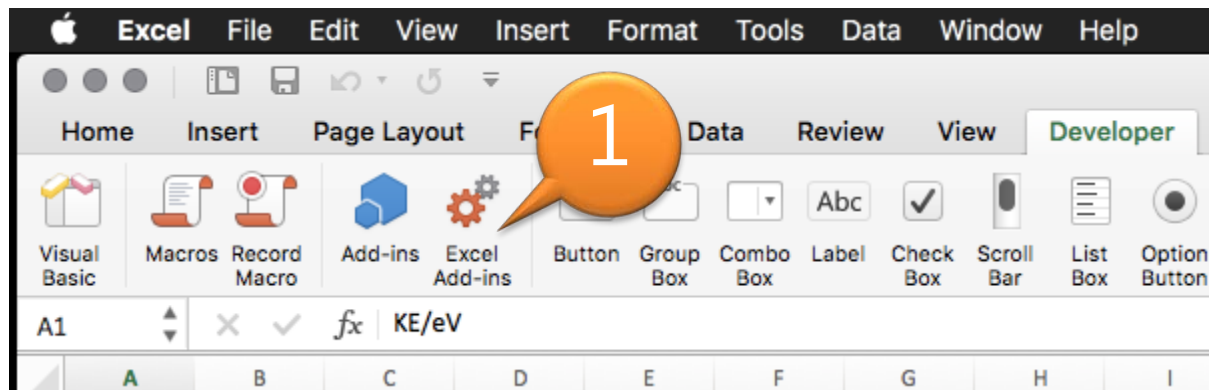


Manage My Money









Excel File Edit View Window Help

Home Insert Page Layout Formulas Data

Visual Basic Macros Record Macro Add-ins Excel Add-ins Button Group Box

A1

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33

Sheet1

Ready

Solver (Solver.xlam)

VBAProject (Personal Macro Workbo...

Modules

Module1

Microsoft Excel Objects

VBAProject (Workbook)

Microsoft Excel Objects

Visual Basic Editor

Option Explicit

```
Dim highpe() As Variant, ratio() As Variant, bediff() As Variant, strt() As Variant, backSla

Dim j As Integer, k As Integer, q As Integer, p As Integer, n As Integer, iRow As Integer, iC
Dim startR As Integer, endR As Integer, g As Integer, cae As Integer, ncomp As Integer, numXP
Dim numMajorUnit As Integer, modex As Integer, para As Integer, graphexist As Integer, numDat
Dim idebug As Integer, spacer As Integer, sftfit As Integer, sftfit2 As Integer, cmp As Integ

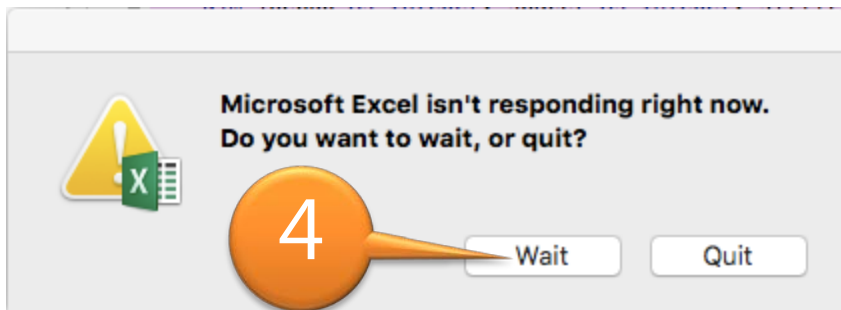
Dim wb As String, ver As String, TimeCheck As String, strAna As String, direc As String, Elem
Dim strSheetDataName As String, strSheetGraphName As String, strSheetFitName As String, strSh
Dim strMode As String, strLabel As String, strCasa As String, strAES As String, strErr As Str

Dim sheetData As Worksheet, sheetGraph As Worksheet, sheetFit As Worksheet, sheetAna As Works
Dim dataData As Range, dataKeData As Range, dataKeGraph As Range, dataBGraph As Range, dataKG

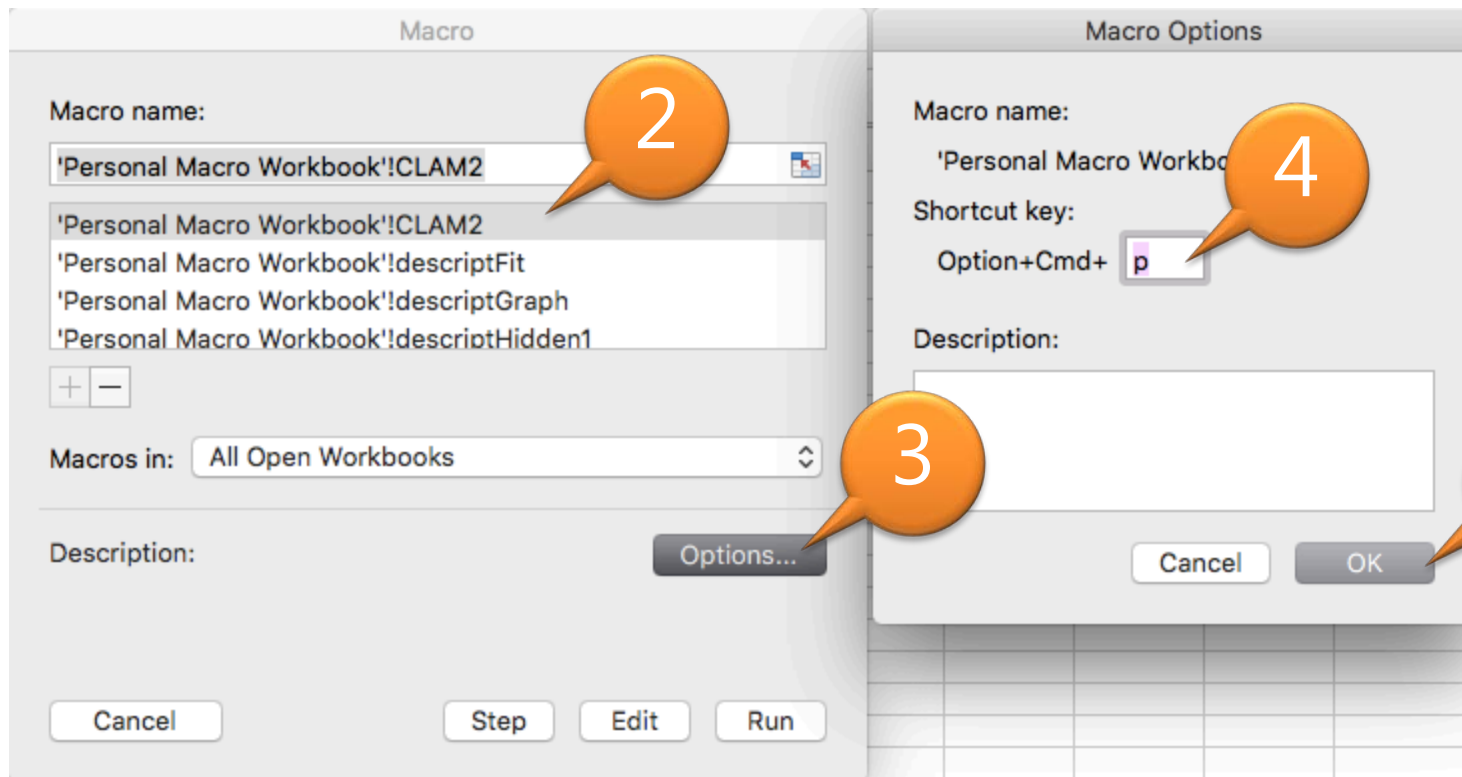
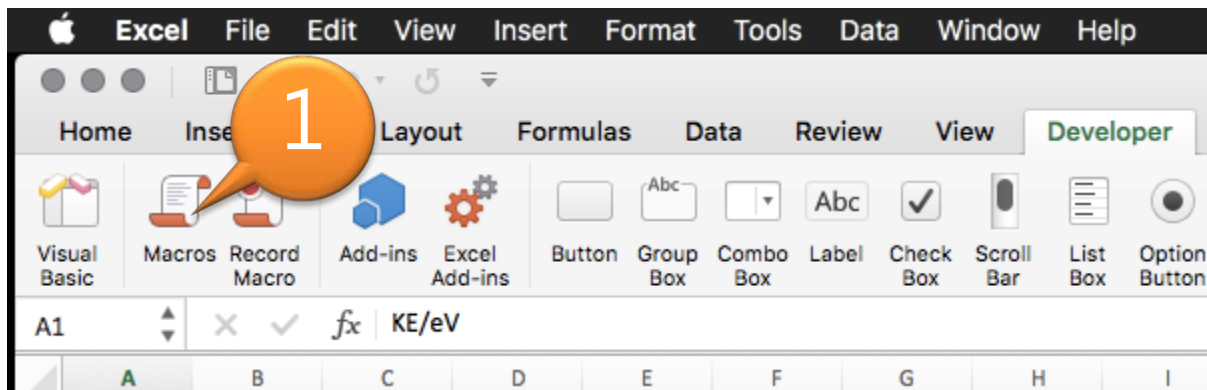
Dim pe As Single, wf As Single, char As Single, multi As Single, windowSize As
Dim startEk As Single, endEk As Single, startEb As Single, stepEk As Single,
Dim chkMax As Single, chkMin As Single, gamma As Single, maxXPSFactor As Si
Dim a0 As Single, a1 As Single, a2 As Single, fit As Single, mfp As Single, peX As Singl

Sub CLAM2()
    ver = "8.28p"
    backSlash = Application.PathSeparator ' Mac = "/", Win = "\"
    If backSlash = "/" Then ' location of directory for database
        direc = backSlash + "Users" + backSlash + "apple" + backSlash + "Library" + backSlash + "
        'direc = backSlash + "Users" + backSlash + "apple" + backSlash + "Documents" + backSlash
    Else
        direc = "E:" + backSlash + "Data" + backSlash + "Hideki" + backSlash + "XPS" + backSlash
    End If
    windowSize = 1.5 ' 1 for large, 2 for small display, and so on. Larger number, small
    windowRatio = 4 / 3 ' window width / height, "2/1" for eyes or "4/3" for ppt
    ElemD = "C,0" ' Default elements to be shown up in the element analysis.
    TimeCheck = "No" ' "No" only iteration results in fitting, numeric value to suppress a

    a0 = -0.00044463 ' Undulator parameters for harmonics or
    a1 = 1.0975 ' B vs gap equation
    a2 = 0.00044463 ' B vs gap equation
```



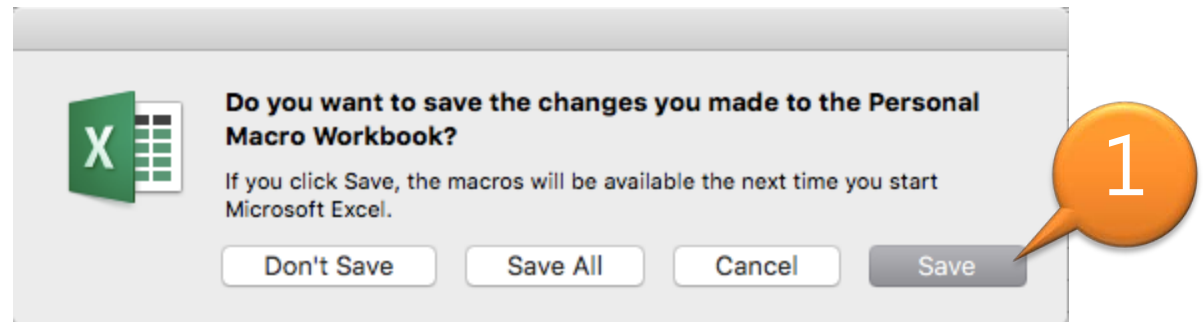
The code is huge,  
please wait.



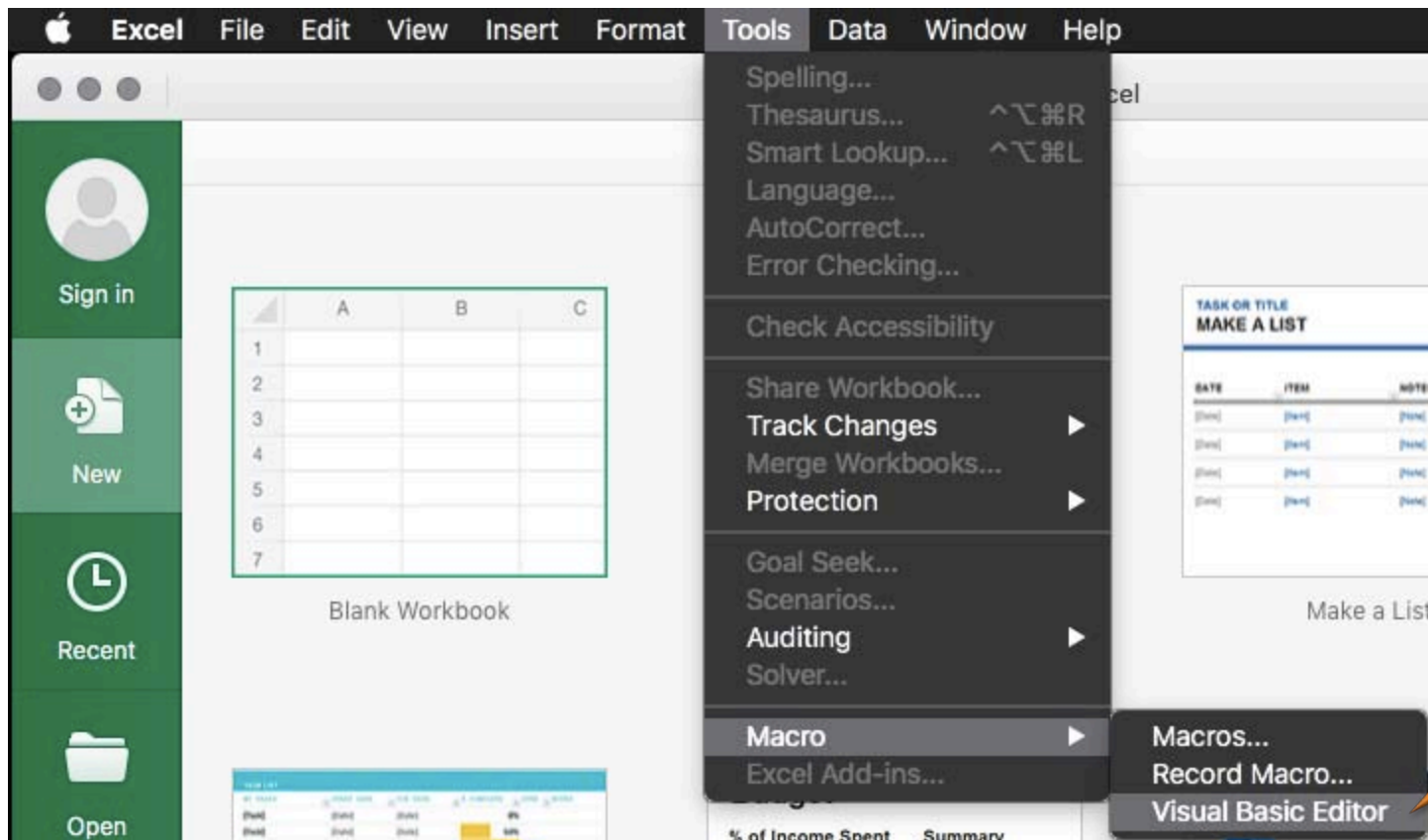
“q” for quit in mac!



## Quit Excel



Next startup Excel again to correctly add Solver reference in VBE.



Note that no workbook opens after Excel start-up.



► Solver (Solver.xlam)  
► VBAProject (Personal Macro Workbo...

## References - VBAProject

## Available References:

- ☒ Visual Basic For Applications
- ☒ Microsoft Excel 14.0 Object Library
- ☒ Microsoft Forms 2.0 Object Library
- ☒ Microsoft Office 14.0 Object Library
- ☒ Solver
- ☐ OLE Automation
- ☐ EApp Object Library
- ☐ Microsoft PowerPoint 14.0 Object Library
- ☐ Microsoft Visual Basic for Applications Extensibility 5.3
- ☐ Microsoft Word 14.0 Object Library

2



Priority



Path: /Applications/Microsoft Excel.app/Contents/Resources/en.lproj/Add-Ins/Solver.xlam

Language: English/United States

Browse...

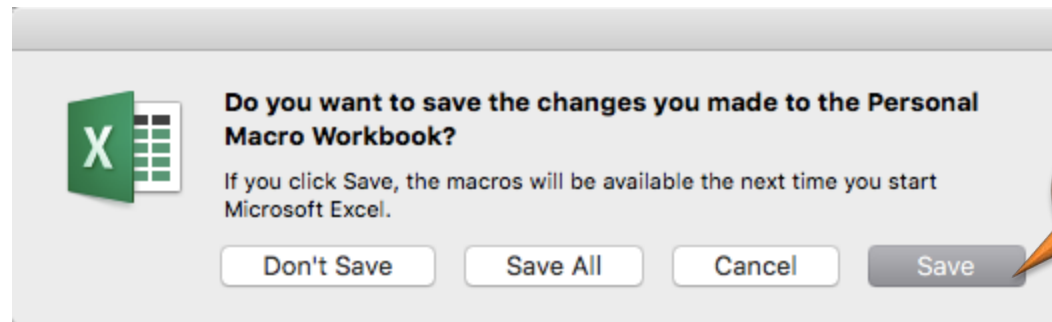
Cancel

OK

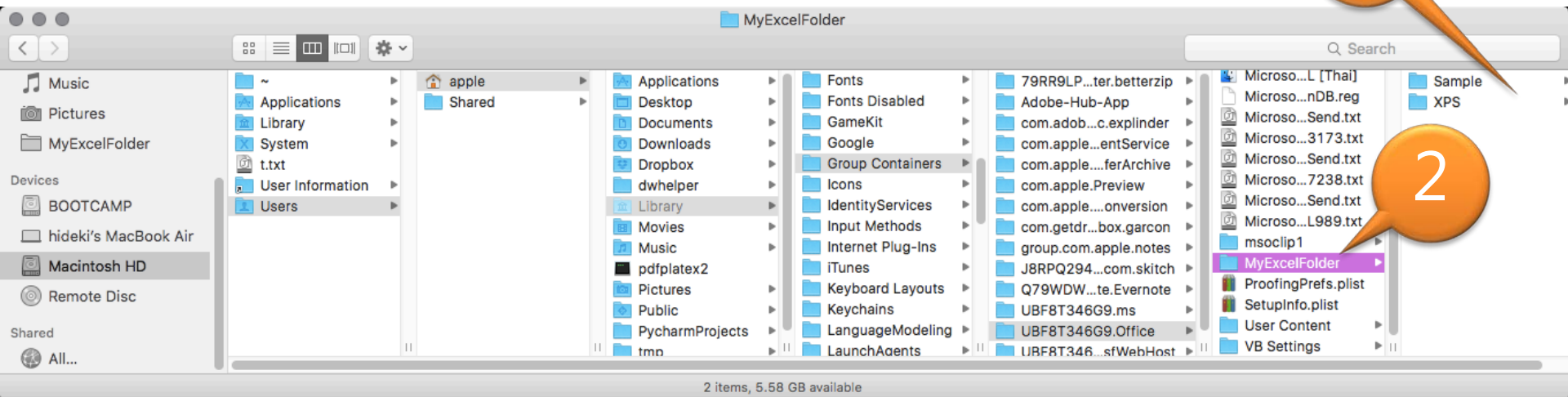
3

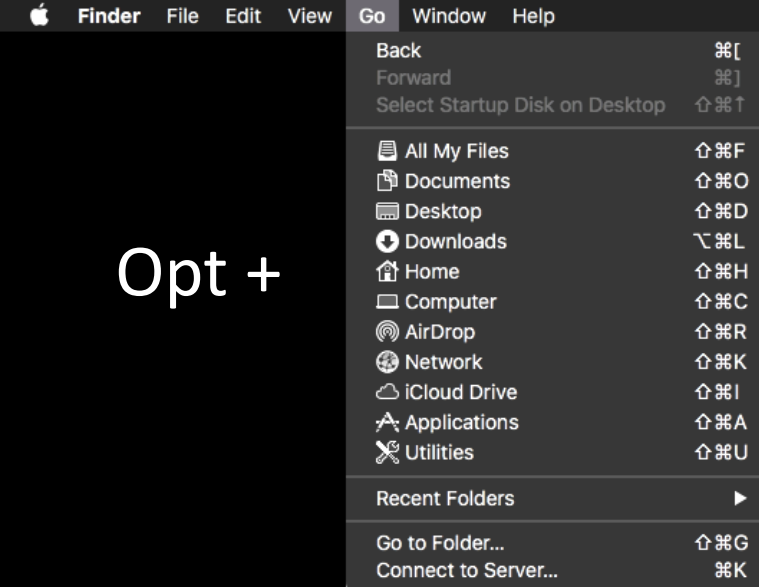
1

# Quit Excel



Workbooks and database should be  
/Users/apple/Library/Group Containers/UBF8T346G9.Office/MyExcelFolder/

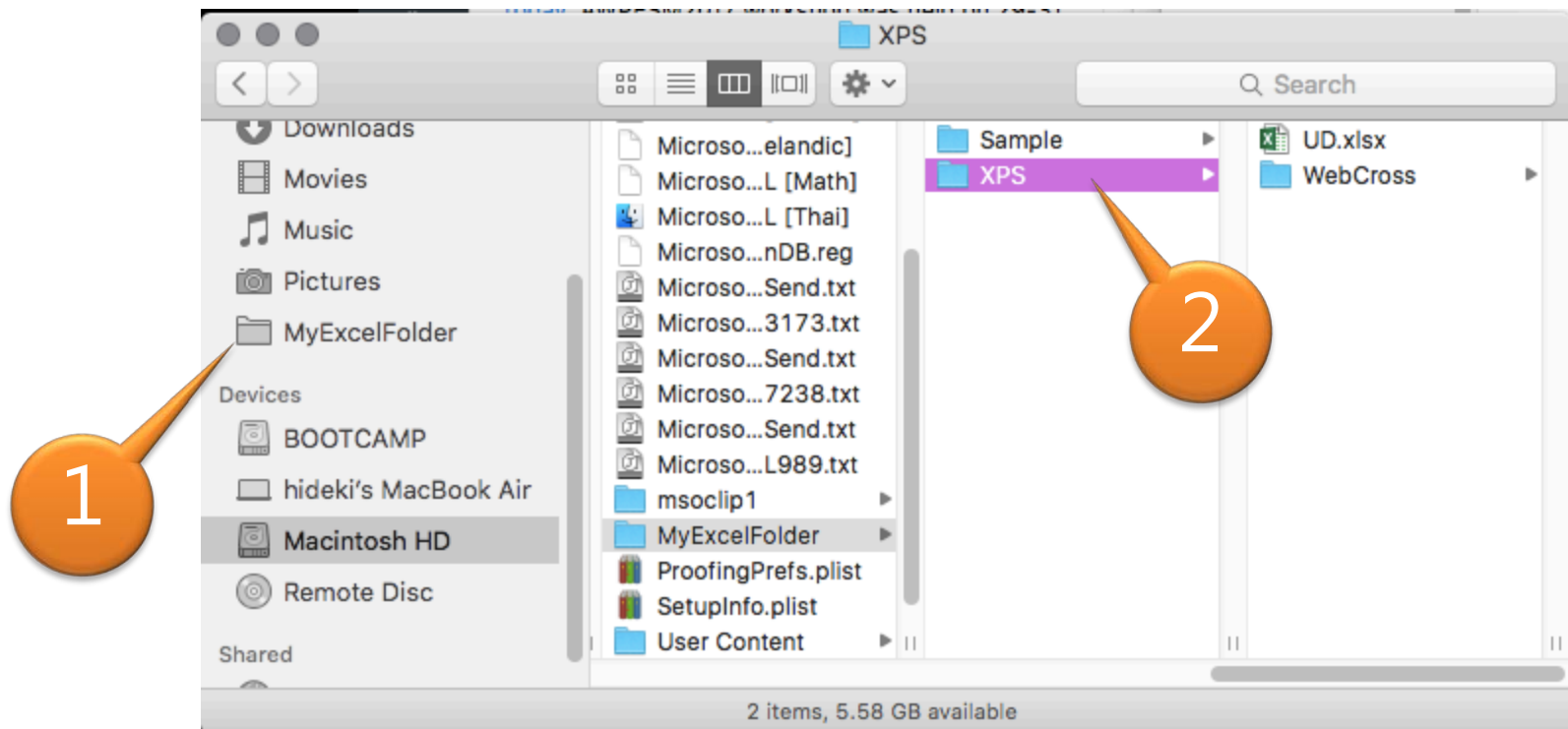




Library folder can be accessed from Go with Option key



Drag & drop in Favorites menu for next access.



Excel File Edit View Insert Format Tools Data Window Help

Au4f\_sample.xlsx

Home Insert Page Layout Formulas Data Review View Developer

Calibri (Body) 12 A A

General

Conditional Formatting Format as Table Cell Styles

Insert Delete Format

AutoSum Fill Clear Sort & Filter

A1 X ✓ fx KE/eV

|    | A     | B             | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U |
|----|-------|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1  | KE/eV | 110904_1625_1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 2  | 496   | 609           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 3  | 496.1 | 553           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 4  | 496.2 | 591           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 5  | 496.3 | 554           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 6  | 496.4 |               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 7  | 496.5 |               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 8  | 496.6 |               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 9  | 496.7 |               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 10 | 496.8 |               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 11 | 496.9 |               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 12 | 497   |               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 13 | 497.1 |               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 14 | 497.2 | 555           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 15 | 497.3 | 543           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 16 | 497.4 | 576           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 17 | 497.5 | 606           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 18 | 497.6 | 614           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 19 | 497.7 | 575           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 20 | 497.8 | 593           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 21 | 497.9 | 641           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 22 | 498   | 602           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 23 | 498.1 | 598           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 24 | 498.2 | 611           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 25 | 498.3 | 635           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 26 | 498.4 | 586           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 27 | 498.5 | 632           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 28 | 498.6 | 628           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 29 | 498.7 | 567           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 30 | 498.8 | 606           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 31 | 498.9 | 599           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 32 | 499   | 604           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 33 | 499.1 | 624           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

Fit\_Au4f\_sample Graph\_Au4f\_sample Au4f\_sample

Ready 100%

Manual input mode

600

Cancel OK

Input atomic elements

Au

Cancel OK

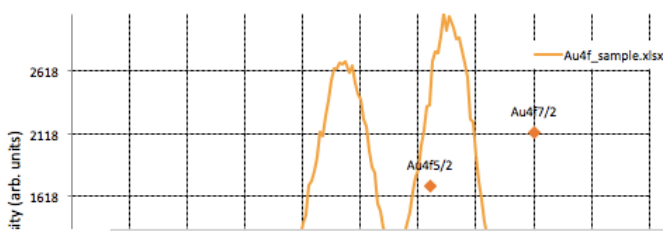
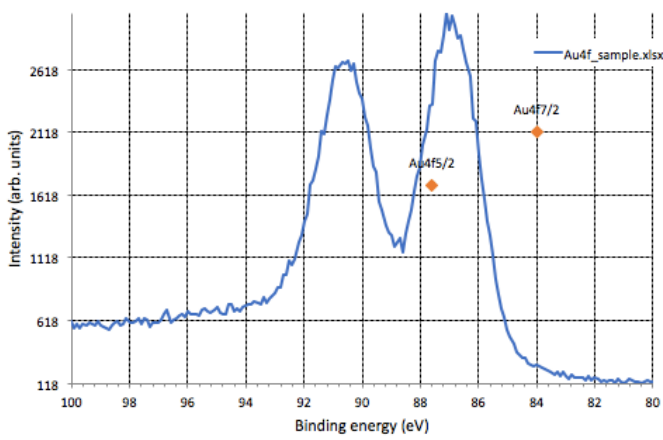
Cmd + Opt + p

Home Insert Page Layout Formulas Data Review View Developer

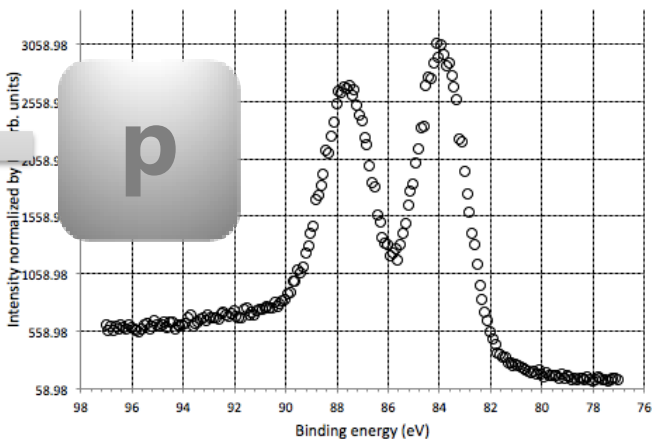
Calibri (Body) 12 A A Wrap Text General Conditional Formatting Format as Table Cell Styles Insert Delete Format AutoSum Fill Clear Sort & Filter

A1 fx

|    | A            | B       | C   |
|----|--------------|---------|-----|
| 1  |              |         |     |
| 2  | PE           | 600 eV  |     |
| 3  | WF           | 4 eV    |     |
| 4  | Char         | 0 eV    |     |
| 5  | Start KE     | 496 eV  |     |
| 6  | End KE       | 516 eV  |     |
| 7  | Step KE      | 0.1 eV  |     |
| 8  | # scan       | 1 times |     |
| 9  | Offset/multp | 0       | 1   |
| 10 | Ke           | Be      | In  |
| 11 | 496          | 100     | 609 |
| 12 | 496.1        | 99.9    | 553 |
| 13 | 496.2        | 99.8    | 591 |
| 14 | 496.3        | 99.7    | 554 |
| 15 | 496.4        | 99.6    | 589 |
| 16 | 496.5        | 99.5    | 576 |
| 17 | 496.6        | 99.4    | 602 |
| 18 | 496.7        | 99.3    | 587 |
| 19 | 496.8        | 99.2    | 576 |
| 20 | 496.9        | 99.1    | 608 |
| 21 | 497          | 99      | 584 |
| 22 | 497.1        | 98.9    | 566 |
| 23 | 497.2        | 98.8    | 555 |
| 24 | 497.3        | 98.7    | 543 |
| 25 | 497.4        | 98.6    | 576 |
| 26 | 497.5        | 98.5    | 606 |
| 27 | 497.6        | 98.4    | 614 |
| 28 | 497.7        | 98.3    | 575 |
| 29 | 497.8        | 98.2    | 593 |
| 30 | 497.9        | 98.1    | 641 |
| 31 | 498          | 98      | 602 |
| 32 | 498.1        | 97.9    | 598 |
| 33 | 498.2        | 97.8    | 611 |



Ready Calculate     -  + 100%





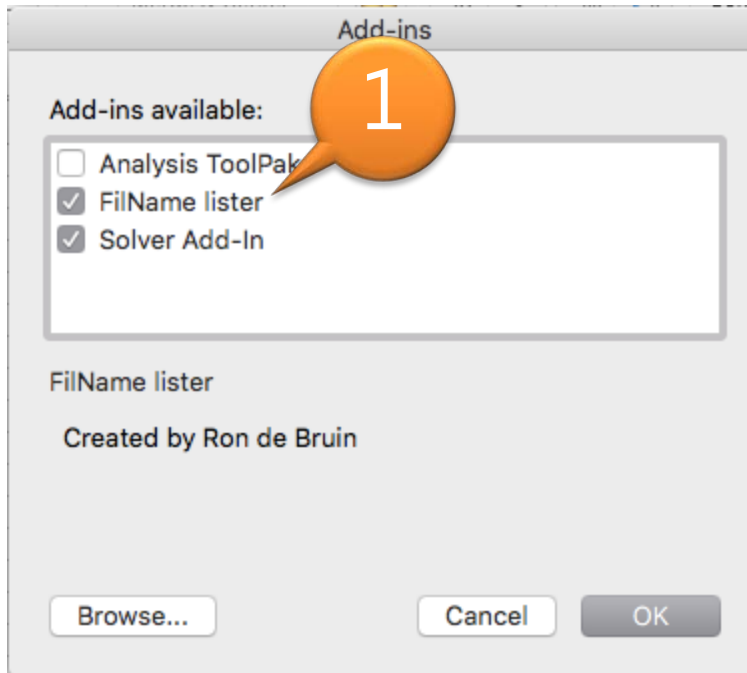
|    |  |  |  |         |
|----|--|--|--|---------|
| A1 |  |  |  | Shirley |
|----|--|--|--|---------|

◀ ▶ **Fit\_Au4f\_sample** Graph\_Au4f\_sample Au4f\_sample +

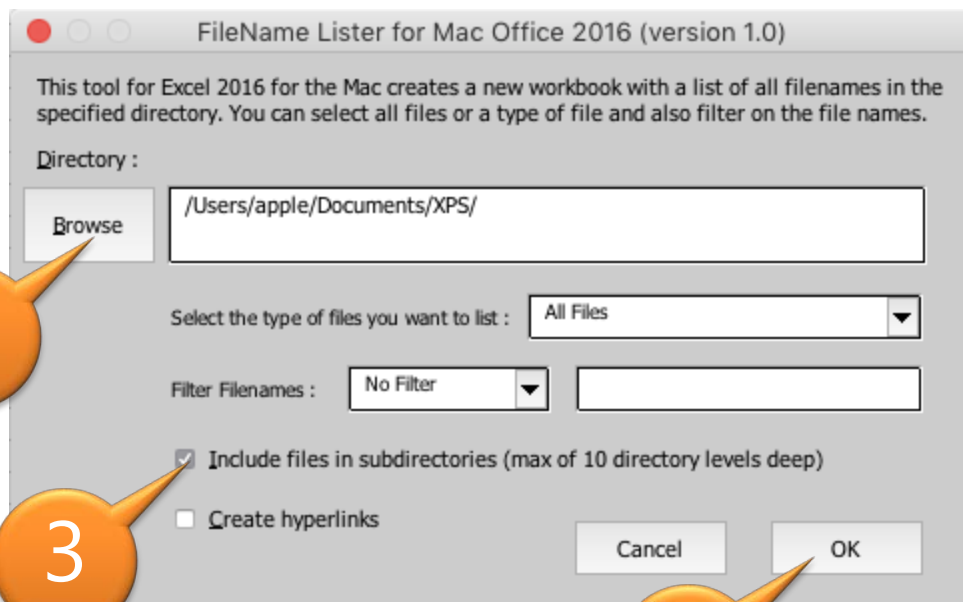
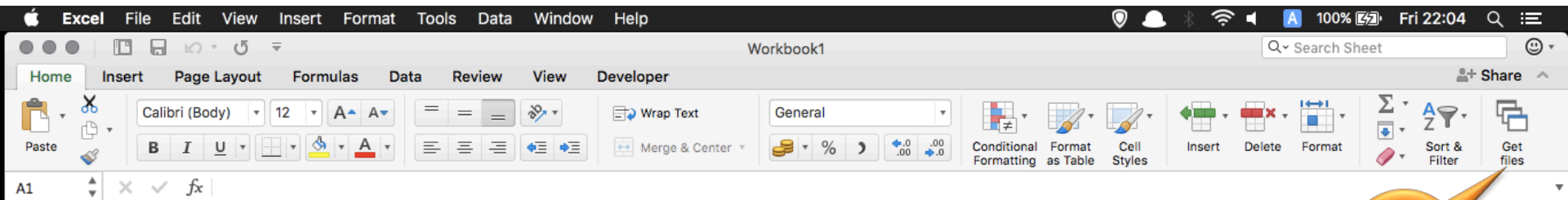
Extra add-ins required for filename list

## **FILE ACCESS**

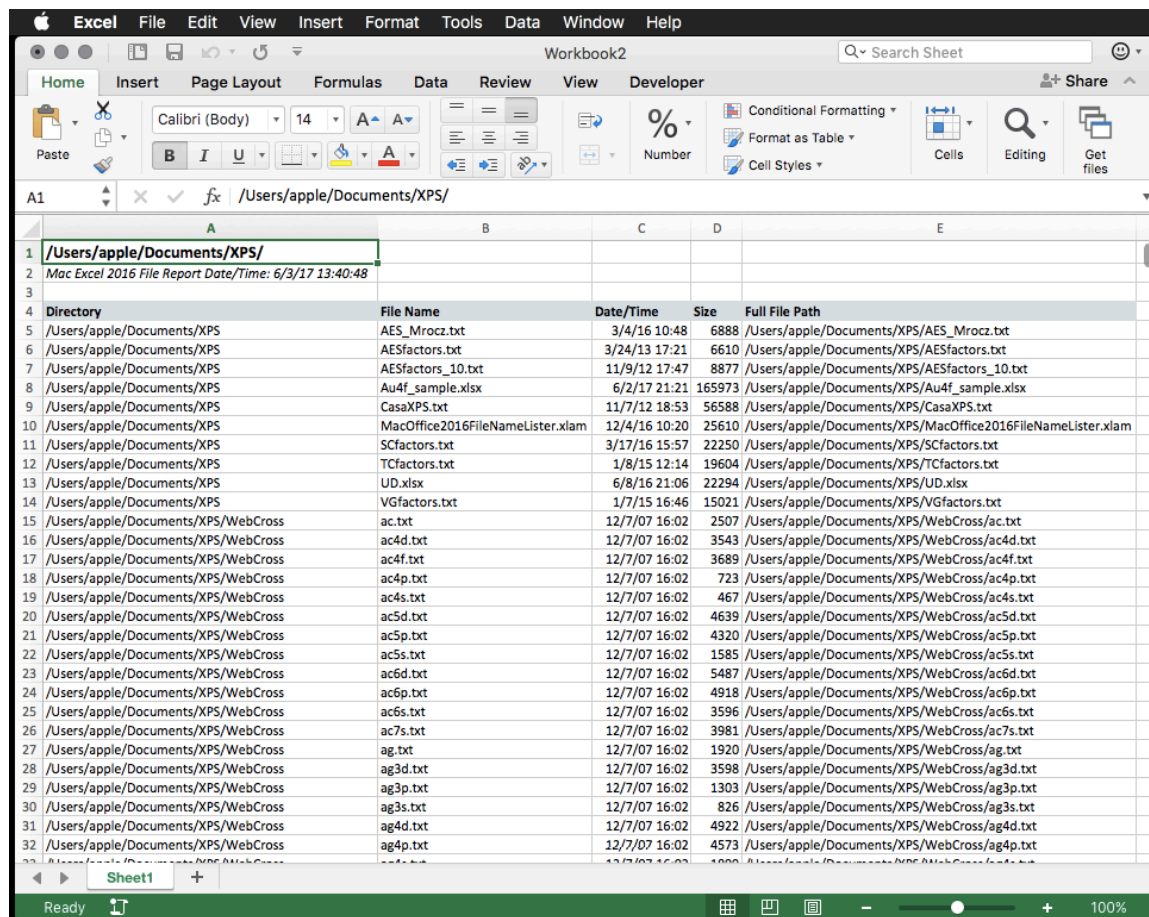
If you need the database files in the different folder, follow the process here.  
Download add-in: <https://www.rondebruin.nl/mac/addins/filenamelister.htm>



Note that Dir function does not work on mac.

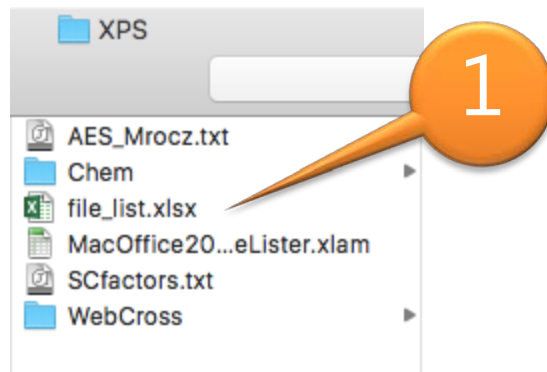


Save the workbook in the folder specified in “direc” as “file\_list.xlsx”, and then access will be granted.



The screenshot shows the Microsoft Excel application window. The title bar reads "Excel" and the menu bar includes "File", "Edit", "View", "Insert", "Format", "Tools", "Data", "Window", and "Help". The ribbon is set to "Home" with tabs for "Insert", "Page Layout", "Formulas", "Data", "Review", "View", and "Developer". The formula bar shows the active cell A1 with the path "/Users/apple/Documents/XPS/". The spreadsheet contains a table with the following data:

| Directory                           | File Name                        | Date/Time     | Size   | Full File Path  |
|-------------------------------------|----------------------------------|---------------|--------|---|
| /Users/apple/Documents/XPS          | AES_Mrocz.txt                    | 3/4/16 10:48  | 6888   | /Users/apple/Documents/XPS/AES_Mrocz.txt                    |
| /Users/apple/Documents/XPS          | AESfactors.txt                   | 3/24/13 17:21 | 6610   | /Users/apple/Documents/XPS/AESfactors.txt                   |
| /Users/apple/Documents/XPS          | AESfactors_10.txt                | 11/9/12 17:47 | 8877   | /Users/apple/Documents/XPS/AESfactors_10.txt                |
| /Users/apple/Documents/XPS          | Au4f_sample.xlsx                 | 6/2/17 21:21  | 165973 | /Users/apple/Documents/XPS/Au4f_sample.xlsx                 |
| /Users/apple/Documents/XPS          | CasaXPS.txt                      | 11/7/12 18:53 | 56588  | /Users/apple/Documents/XPS/CasaXPS.txt                      |
| /Users/apple/Documents/XPS          | MacOffice2016FileNameLister.xlam | 12/4/16 10:20 | 25610  | /Users/apple/Documents/XPS/MacOffice2016FileNameLister.xlam |
| /Users/apple/Documents/XPS          | SCfactors.txt                    | 3/17/16 15:57 | 22250  | /Users/apple/Documents/XPS/SCfactors.txt                    |
| /Users/apple/Documents/XPS          | TCfactors.txt                    | 1/8/15 12:14  | 19604  | /Users/apple/Documents/XPS/TCfactors.txt                    |
| /Users/apple/Documents/XPS          | UD.xlsx                          | 6/8/16 21:06  | 22294  | /Users/apple/Documents/XPS/UD.xlsx                          |
| /Users/apple/Documents/XPS          | VGfactors.txt                    | 1/7/15 16:46  | 15021  | /Users/apple/Documents/XPS/VGfactors.txt                    |
| /Users/apple/Documents/XPS/WebCross | ac.txt                           | 12/7/07 16:02 | 2507   | /Users/apple/Documents/XPS/WebCross/ac.txt                  |
| /Users/apple/Documents/XPS/WebCross | ac4d.txt                         | 12/7/07 16:02 | 3543   | /Users/apple/Documents/XPS/WebCross/ac4d.txt                |
| /Users/apple/Documents/XPS/WebCross | ac4f.txt                         | 12/7/07 16:02 | 3689   | /Users/apple/Documents/XPS/WebCross/ac4f.txt                |
| /Users/apple/Documents/XPS/WebCross | ac4p.txt                         | 12/7/07 16:02 | 723    | /Users/apple/Documents/XPS/WebCross/ac4p.txt                |
| /Users/apple/Documents/XPS/WebCross | ac4s.txt                         | 12/7/07 16:02 | 467    | /Users/apple/Documents/XPS/WebCross/ac4s.txt                |
| /Users/apple/Documents/XPS/WebCross | ac5d.txt                         | 12/7/07 16:02 | 4639   | /Users/apple/Documents/XPS/WebCross/ac5d.txt                |
| /Users/apple/Documents/XPS/WebCross | ac5p.txt                         | 12/7/07 16:02 | 4320   | /Users/apple/Documents/XPS/WebCross/ac5p.txt                |
| /Users/apple/Documents/XPS/WebCross | ac5s.txt                         | 12/7/07 16:02 | 1585   | /Users/apple/Documents/XPS/WebCross/ac5s.txt                |
| /Users/apple/Documents/XPS/WebCross | ac6d.txt                         | 12/7/07 16:02 | 5487   | /Users/apple/Documents/XPS/WebCross/ac6d.txt                |
| /Users/apple/Documents/XPS/WebCross | ac6p.txt                         | 12/7/07 16:02 | 4918   | /Users/apple/Documents/XPS/WebCross/ac6p.txt                |
| /Users/apple/Documents/XPS/WebCross | ac6s.txt                         | 12/7/07 16:02 | 3596   | /Users/apple/Documents/XPS/WebCross/ac6s.txt                |
| /Users/apple/Documents/XPS/WebCross | ac7s.txt                         | 12/7/07 16:02 | 3981   | /Users/apple/Documents/XPS/WebCross/ac7s.txt                |
| /Users/apple/Documents/XPS/WebCross | ag.txt                           | 12/7/07 16:02 | 1920   | /Users/apple/Documents/XPS/WebCross/ag.txt                  |
| /Users/apple/Documents/XPS/WebCross | ag3d.txt                         | 12/7/07 16:02 | 3598   | /Users/apple/Documents/XPS/WebCross/ag3d.txt                |
| /Users/apple/Documents/XPS/WebCross | ag3p.txt                         | 12/7/07 16:02 | 1303   | /Users/apple/Documents/XPS/WebCross/ag3p.txt                |
| /Users/apple/Documents/XPS/WebCross | ag3s.txt                         | 12/7/07 16:02 | 826    | /Users/apple/Documents/XPS/WebCross/ag3s.txt                |
| /Users/apple/Documents/XPS/WebCross | ag4d.txt                         | 12/7/07 16:02 | 4922   | /Users/apple/Documents/XPS/WebCross/ag4d.txt                |
| /Users/apple/Documents/XPS/WebCross | ag4p.txt                         | 12/7/07 16:02 | 4573   | /Users/apple/Documents/XPS/WebCross/ag4p.txt                |



# References

- Multiple-file access granted on mac
  - <https://msdn.microsoft.com/en-us/library/office/mt654020.aspx>
- Excel 2016 on Mac updater packages
  - <https://macadmins.software/>
- Excel 2016 on Mac solutions
  - <https://www.rondebruin.nl/mac/mac015.htm>
  - <http://www.rondebruin.nl/mac/mac034.htm>