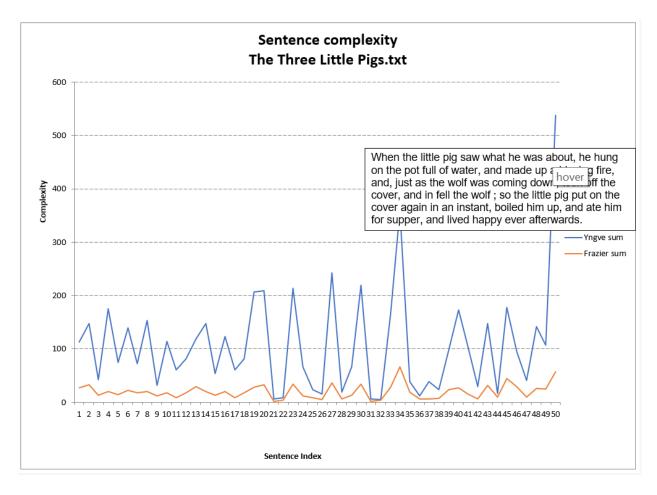
Enabling Excel Macros for Point-by-Point Series Labels in a Text Box

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Excel chart hover-over effect: What is it?

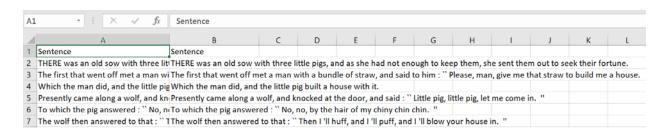
The following Excel chart, when hovering over a data point with the mouse, will display the sentence at that point. It is called the **hover over effect**. Of course, the chart could display other information the script passes to it, but in this case, it is the sentence.



What Excel will display is found at the bottom left-hand side in the sheet **Labels**.



And here is what the Labels sheet contains:



One Sentence for each line on the chart. The sentence is repeated since you may want to display different things for each line (e.g., the sentence for the Yngve sum and another piece of information for Frazier).

Excel macro: What is it?

nating a set of mouse clicks and keystrokes. But you need to enable macros or t area will be blank.				

If you have tasks in Microsoft Excel that you do repeatedly, you can record a macro to automate

those tasks. A macro is something you run repeatedly. When you create a macro, you are

Enabling Excel macros. How do you do that?

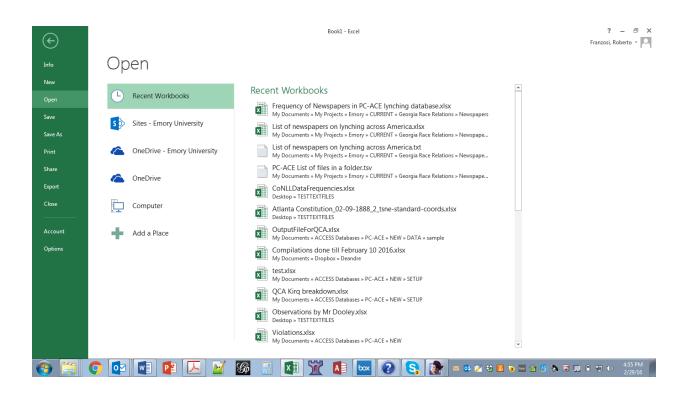
Windows OS

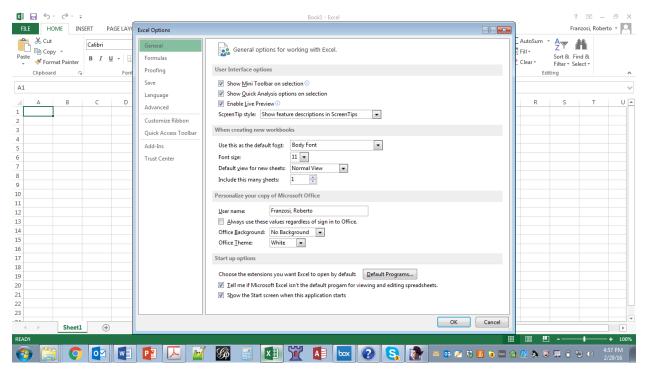
Step 1: Enabling macros

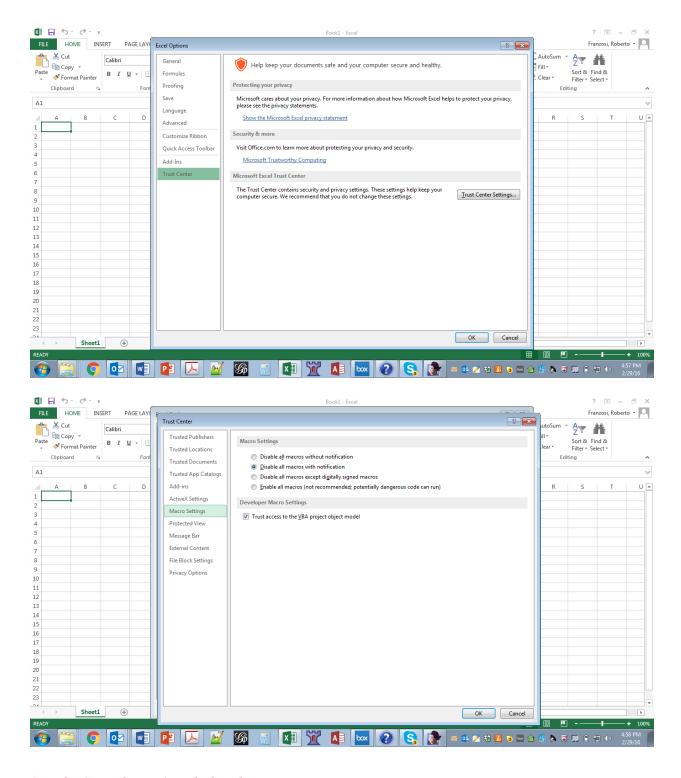
In order to display in a text box point-by-point information for a data series in an Excel chart, you need first to do the following:

- 1. Open Excel
- 2. Click on file and click on Options (the last item in the list on the left panel)
- 3. Select TRUST CENTER (last item on the list on the left panel)
- 4. Click on button TRUST CENTER SETTINGS...
- 5. Click on item MACRO SETTINGS (mid-way on the item list on the left panel)

- 6. Click on check box Trust access to the VBA project object model
- 7. Click OK

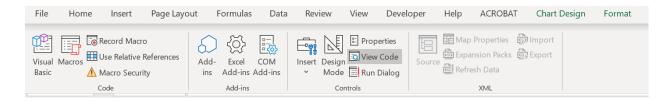




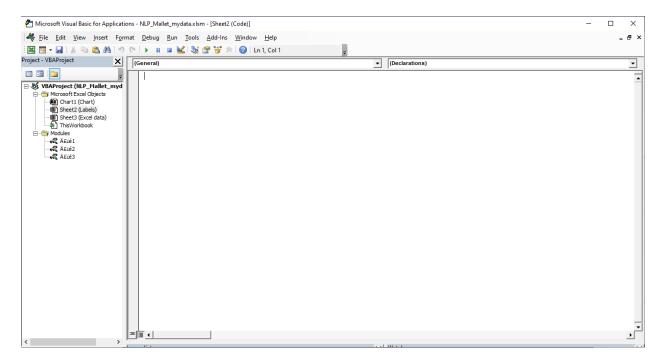


Step 2: Copy the VBA code for chart macro

The next step is to copy the VBA code. So, at the top, click on the tab **Developer** and then **View Code**



And here is what you see.



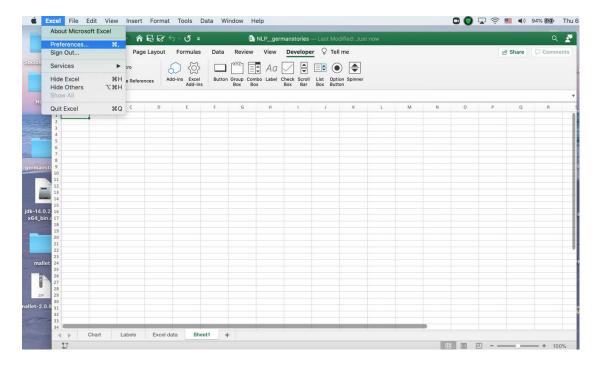
Click on Chart 1 on the left-hand side. You need to copy there the VBA code listed below into the empty area.

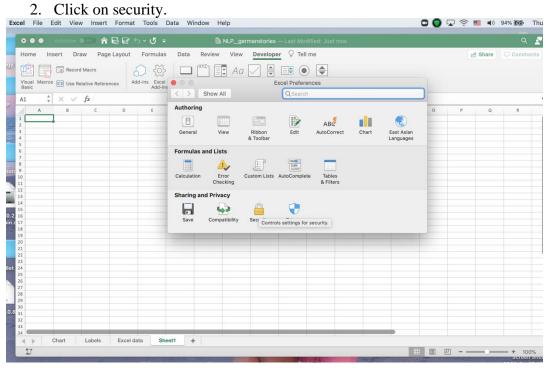
```
| See Fig Riv New Inset Format Debug Ban Look Add-ins Window Help | See Add-ins Window Help | Se
```

Mac OS: Enabling Excel macros

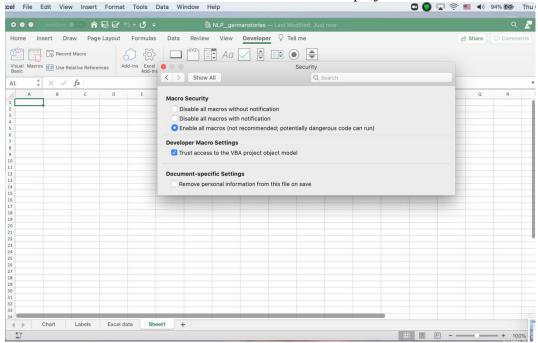
Step 1: Enabling macros

- 1. Open Excel.
- 2. Click on Excel in the upper left corner of the mac and click on preferences (the second option in the drop down menu).
- 3. Select Security (third item under sharing and privacy)
- 4. Enable ALL MACROS in addition to "trust access to the VBA project object model"
- 5. Return to the preferences tab.
- 6. Select Ribbon & Toolbar (third item under authoring)
- 7. Click the check mark for 'Developer' under "Main Tabs"
- 8. Return to your excel sheet and click on the developer tab on the top toolbar, then click on "visual basic" in the leftmost part of the toolbar.
- 9. Double click on "chart1" on the left hand side. (this should be blank if your charts is not working properly.)
- 10. Insert the chart code.
- 11. SAVE the excel sheet.
- 12. Close the excel sheet and reopen. Your chart should now be visible.
- 1. Open excel and click on preferences.

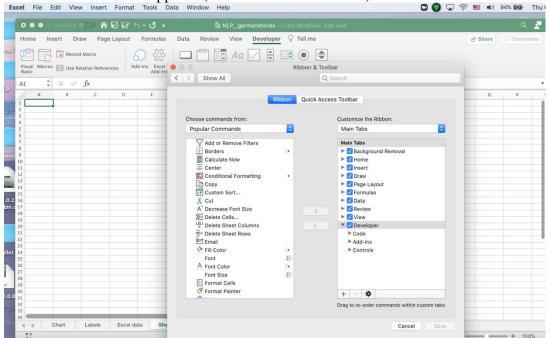




3. Enable all macros and trust access to the VBA project.

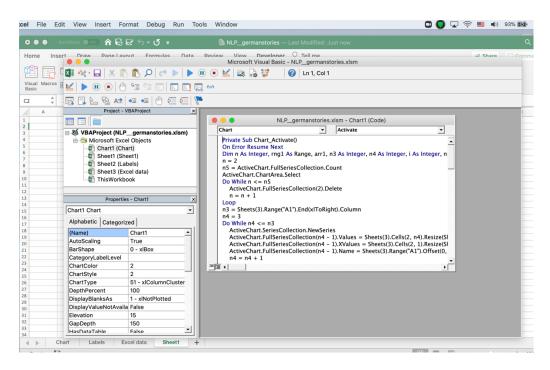


4. Return to preferences and click on Ribbon and toolbar. Then click the developer box until



Step 2: Copy the VBA code for chart macro

Double click on chart1 which appears on the left side. Copy and paste the following code into the chart1. NO SPACES BETWEEN LINES.



VBA code for chart macro

```
Private Sub Chart_Activate()
```

On Error Resume Next

Dim n As Integer, rng1 As Range, arr1, n3 As Integer, n4 As Integer, i As Integer, n5 As Integer n = 2

n5 = ActiveChart.FullSeriesCollection.Count

ActiveChart.ChartArea.Select

Do While $n \le n5$

ActiveChart.FullSeriesCollection(2).Delete

n = n + 1

Loor

n3 = Sheets(3).Range("A1").End(xlToRight).Column

n4 = 3

Do While $n4 \le n3$

ActiveChart.SeriesCollection.NewSeries

ActiveChart.FullSeriesCollection(n4 - 1).Values = Sheets(3).Cells(2,

n4).Resize(Sheets(3).Cells(2, n4).End(xlDown).Row - 1, 1)

ActiveChart.FullSeriesCollection(n4 - 1).XValues = Sheets(3).Cells(2,

1).Resize(Sheets(3).Cells(1, 1).End(xlDown).Row - 1, 1)

ActiveChart.FullSeriesCollection(n4 - 1).Name = Sheets(3).Range("A1").Offset(0, n4 - 1)

```
n4 = n4 + 1
Loop
ActiveChart.FullSeriesCollection(1).Values = Sheets(3).Cells(2, 2).Resize(Sheets(3).Cells(2,
2).End(xlDown).Row - 1, 1)
ActiveChart.FullSeriesCollection(1).XValues = Sheets(3).Cells(2, 1).Resize(Sheets(3).Cells(1,
1).End(xlDown).Row - 1, 1)
ActiveChart.FullSeriesCollection(n4 - 1).Name = Sheets(3).Range("B1")
End Sub
Private Sub Chart_MouseMove(ByVal Button As Long, ByVal Shift As Long, ByVal x As
Long, ByVal y As Long)
Dim ElementID As Long
Dim Arg1 As Long
Dim Arg2 As Long
Dim chart_data As Variant
Dim chart label As Variant
Dim chrt As Chart
Dim ser As Series
Dim sht As Worksheet
Dim rng As Range
Dim lastCol As Long
On Error Resume Next
Me.GetChartElement x, y, ElementID, Arg1, Arg2
Application.ScreenUpdating = False
Set chrt = ActiveChart
Set ser = ActiveChart.SeriesCollection(Arg1)
Set sht = ActiveWorkbook.Sheets("Labels")
chart data = ser. Values
chart label = ser.XValues
Set txtbox = ActiveSheet.Shapes("hover")
If ElementID = xlSeries And ActiveSheet.Shapes.Count = 0 Then
If Err.Number Then
Set txtbox = ActiveSheet.Shapes.AddTextbox(msoTextOrientationHorizontal, x - 150, y - 150,
100, 100)
txtbox.Name = "hover"
txtbox.Fill.Solid
txtbox.Fill.ForeColor.SchemeColor = 9
txtbox.Line.DashStyle = msoLineSolid
'get last column
lastCol = sht.Cells(1, sht.Columns.Count).End(xlToLeft).Column
'get appropriate column
labelCol = 1
chrt.Shapes("hover").TextFrame.Characters.Text = sht.Cells((Arg2 + 1), Arg1).Value
With chrt.Shapes("hover").TextFrame.Characters.Font
.Name = "Arial"
```

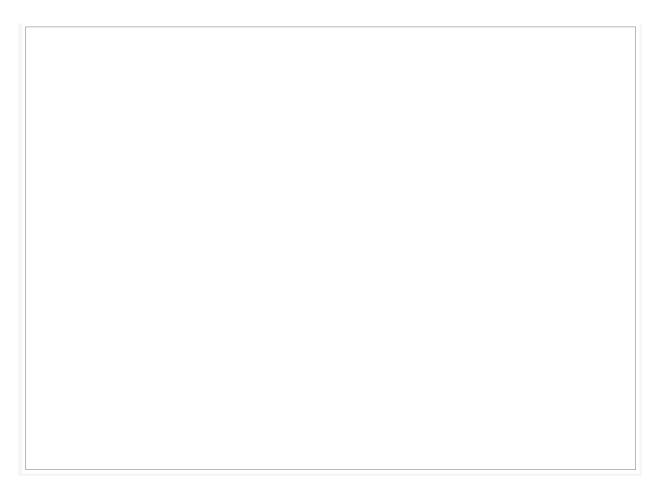
.Size = 12

```
.ColorIndex = 1
End With
With chrt.Shapes("hover")
.Width = 300
End With
With chrt.Shapes("hover").TextFrame2
.AutoSize = msoAutoSizeShapeToFitText
.WordWrap = True
End With
End If
txtbox.Left = x - 100
txtbox.Top = y - 100
Else
txtbox.Delete
End If
ActiveChart.ChartTitle.Select
  Selection.Format.TextFrame2.TextRange.Characters.Text = Sheet2.Range("zz1")
  ActiveChart.Axes(xlValue).AxisTitle.Select
  Selection.Format.TextFrame2.TextRange.Characters.Text = Sheet2.Range("zz2")
  ActiveChart.Axes(xlCategory).AxisTitle.Select
  Selection.Format.TextFrame2.TextRange.Characters.Text = Sheet2.Range("zz3")
  ActiveChart.ChartArea.Select
Application.ScreenUpdating = True
End Sub
```

Save and the macro VBA code will create all your Excel charts with hover-over effects.

FAQ

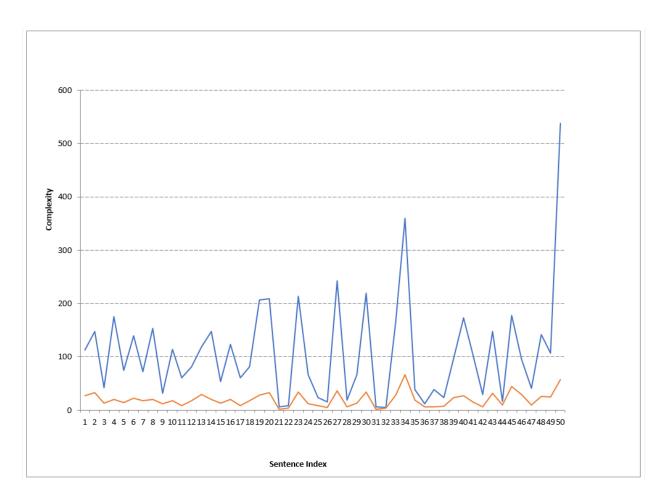
My Excel chart is empty: Why?



Two reasons.

- 1. You have NOT enabled the macros.
- 2. Even after enabling the macros, when Excel opens on a chart, you need to hover the mouse over the chart area to display the content properly.

My Excel chart has no title: Why?



Same reason. Just move the mouse over the chart area to see titles (and labels).