

# VBA SOURCE CODE BOOK

## VERTICAL SCHEDULING CALENDAR

**ALL FROM SCRATCH!**



*Excel For Freelancers*

## Create This Vertical Scheduling Calendar In Excel



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APPLICATION**



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*by: Randy Austin*

# ABOUT THE AUTHOR

A 4-time Microsoft MVP & lifetime Excel enthusiast, Randy Austin founded Excel For Freelancers in 2017. Excel For Freelancers quickly became the most prominent resource Excel for developers to learn how to turn their passion for Excel into profits by building & selling their own excel-based applications for passive & recurring income.

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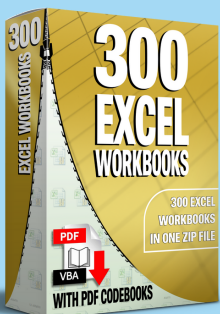
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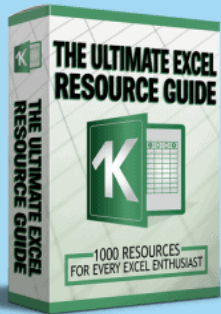
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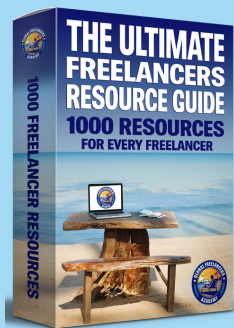
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```
1 Option Explicit
2
3 Private Sub Worksheet_Change(ByVal Target As Range)
4     If Not Intersect(Target, Range("F8" )) Is Nothing And Range("F8" ).Value <> Empty
5         Then
6             Calendar.Range("D6:D371" ).NumberFormat = Target.Value 'Change Date Format
7         End If
8     End Sub
9
10 Private Sub Worksheet_SelectionChange(ByVal Target As Range)
11     If Shapes("ColorPalette" ).Visible = True Then Shapes("ColorPalette" ).Visible =
12         msoFalse
13     'On Appt. Type Color Selection
14     If Not Intersect(Target, Range("C15:C33" )) Is Nothing Then
15         With Shapes("ColorPalette" )
16             .Left = Range("C" & Target.Row).Left 'Set Left Position
17             .Top = Range("C" & Target.Row + 1).Top 'Top Position
18             .Visible = msoCTrue
19         End With
20     End If
21
22
23     'On workday selection
24     If Not Intersect(Target, Range("C5:C11" )) Is Nothing Then
25         If Target.Value = Chr(111) Then Target.Value = Chr(254) Else Target.Value = Chr(
26             111)
27         Range("F4" ).Select
28     End If
29 End Sub
```

1  
2

Option Explicit

1  
2

Option Explicit



1 Option Explicit

2

```
1 Option Explicit
```

```
2
```

```
3 Sub Admin_SetTypeColor()
```

```
4     ActiveCell.Interior.Color = Admin.Shapes(Application.Caller).Fill.ForeColor.RGB
```

```
5     Admin.Shapes("ColorPalette").Visible = msoFalse
```

```
6 End Sub
```

```

1 Option Explicit
2
3 Dim ApptRow As Long, ApptCol As Long
4
5 Sub Appt_Delete()
6     If MsgBox("Are you sure you want to delete this appointment?" , vbYesNo, "Delete
7         Appointment" ) = vbNo Then Exit Sub
8     With Calendar
9         If .Range("B3" ).Value = Empty Then GoTo NotSaved
10        ApptRow = .Range("B3" ).Value 'Appt DB Row
11        ApptsDB.Range(ApptRow & ":" & ApptRow).EntireRow.Delete
12        NotSaved:
13        Appt_New
14        Calendar_Refresh 'Run macro to refresh calendar
15    End With
16 End Sub
17
18 Sub Appt_Load()
19     With Calendar
20         If .Range("B3" ).Value = Empty Then
21             MsgBox "Please select a correct appointment to load"
22             Exit Sub
23         End If
24         Application.ScreenUpdating = False
25         ApptRow = .Range("B3" ).Value 'Appt DB Row
26         For ApptCol = 2 To 7
27             .Range(ApptsDB.Cells(1, ApptCol).Value).Value = ApptsDB.Cells(ApptRow, ApptCol
28                 ).Value 'Bring Over Data
29         Next ApptCol
30         Application.ScreenUpdating = True
31     End With
32 End Sub
33
34 Sub Appt_New()
35     Calendar.Range("B2,G3:J3,N3:O3,R3:S3,W3,AA3:AC3,AG3:A03" ).ClearContents 'Clear Out
36     Existing Cells
37 End Sub
38
39 Sub Appt_SaveUpdate()
40     With Calendar
41         If Application.WorksheetFunction.CountA(.Range("G3,N3,R3,W3" )) < 4 Then
42             MsgBox "Please fill in the required fields, Item, Date, Time & Duration"
43             Exit Sub
44         End If
45         Application.ScreenUpdating = False
46         If .Range("B3" ).Value = Empty Then 'New Appt
47             ApptRow = ApptsDB.Range("A99999" ).End(xlUp).Row + 1 'First Avail. Row
48             .Range("B2" ).Value = .Range("B4" ).Value 'Next Appt ID
49             ApptsDB.Range("A" & ApptRow).Value = .Range("B2" ).Value 'Appt ID
50         Else 'Existing
51             ApptRow = .Range("B3" ).Value
52         End If
53         For ApptCol = 2 To 7
54             ApptsDB.Cells(ApptRow, ApptCol).Value = .Range(ApptsDB.Cells(1, ApptCol).Value
55                 ).Value 'Bring Over Data
56         Next ApptCol
57         Calendar_Refresh 'Run macro to refresh calendar
58         Application.ScreenUpdating = True
59     End With
60 End Sub

```

58

<sup>1</sup> End Sub

```

1 Option Explicit
2
3 Dim ApptRow As Long, ApptCol As Long, LastRow As Long, LastResultRow As Long
4 Dim DurCols As Long, ResultRow As Long, TypeRow As Long
5 Dim ApptColor As String, ApptID As String, ApptName As String, ApptType As String
6 Dim ApptShp As Shape
7 Dim ApptDate As Date, StartDate As Date
8 Dim ApptLeft As Double, ApptTime As Double, ApptDur As Double, SchedDur As Double,
  SchedStart As Double
9
10
11 Sub Calendar_Appt_Select()
12     With Calendar
13         ApptID = Replace(Application.Caller, "CalAppt" , "" ) 'Extract Appt ID
14         .Range("B2" ).Value = ApptID
15         Appt_Load
16     End With
17 End Sub
18
19 Sub Calendar_GoToMonth()
20     Dim MonthStart As Date
21     Dim CalRow As Long
22     With Calendar
23         MonthStart = DateSerial(.Range("B5" ).Value, .Range("B6" ).Value, 1)
24         CalRow = DatePart("y" , MonthStart) + 5 'Calendar Row based on the day # of the
  year
25         If CalRow > 5 Then ActiveWindow.ScrollRow = CalRow
26     End With
27 End Sub
28
29
30 Sub Calendar_NextMonth()
31     With Calendar
32         If .Range("B6" ).Value = 12 Then 'On December Go to Next year and January
33             .Range("B5" ).Value = .Range("B5" ).Value + 1 'Increase year by 1
34             .Range("B6" ).Value = 1 'Set To January
35             Calendar_Refresh 'Refresh Calendar
36         Else:
37             .Range("B6" ).Value = .Range("B6" ).Value + 1
38         End If
39         Calendar_GoToMonth 'Go to specific month
40     End With
41 End Sub
42
43 Sub Calendar_PrevMonth()
44     With Calendar
45         If .Range("B6" ).Value = 1 Then 'On January Go to Prev Year & December
46             .Range("B5" ).Value = .Range("B5" ).Value - 1 'Reduce year by 1
47             .Range("B6" ).Value = 12 'Set To December
48             Calendar_Refresh 'Refresh Calendar
49         Else:
50             .Range("B6" ).Value = .Range("B6" ).Value - 1
51         End If
52         Calendar_GoToMonth 'Go to specific month
53     End With
54 End Sub
55
56 Sub Calendar_Refresh()
57     'Clear All existing appt shapes
58     For Each ApptShp In Calendar.Shapes
59         If InStr(ApptShp.Name, "CalAppt" ) > 0 Then ApptShp.Delete

```

```

1 2
60 Next ApptShp
61
62 'Run advanced filter for appts. database
63 With ApptsDB
64 LastRow = .Range("A99999").End(xlUp).Row 'Last Row of data
65 If LastRow < 4 Then Exit Sub
66 .Range("A3:G" & LastRow).AdvancedFilter xlFilterCopy, CriteriaRange:=.Range(
67 "I2:J3" ), CopyToRange:=.Range("M2:R2" ), Unique:=True
68 LastResultRow = .Range("M99999").End(xlUp).Row
69 If LastResultRow < 3 Then Exit Sub
70 Application.ScreenUpdating = False ' Turn Off Screen updating
71 SchedDur = [Duration] 'Schedule duration
72 SchedStart = [StartTime] 'Schedule Start Time
73 StartDate = [StartYearDate] 'Start Year Date
74 For ResultRow = 3 To LastResultRow
75 ApptID = .Range("M" & ResultRow).Value 'Appt ID
76 ApptName = .Range("N" & ResultRow).Value 'Appointment Name
77 ApptType = .Range("O" & ResultRow).Value 'Appt Type
78 ApptDate = .Range("P" & ResultRow).Value 'Appt Date
79 ApptTime = .Range("Q" & ResultRow).Value 'Appt Time
80 ApptDur = .Range("R" & ResultRow).Value 'Appt Duration
81 DurCols = Int(ApptDur / SchedDur) 'Set & of columns for duration
82 On Error Resume Next
83 TypeRow = Admin.Range("ApptTypes").Find(ApptType, , xlValues, xlWhole).Row
84 'Get Type Row
85 On Error GoTo 0
86 If TypeRow <> 0 Then ApptColor = Admin.Range("C" & TypeRow).Interior.Color
87 Else ApptColor = "" 'Get Interior Color
88 ApptRow = ApptDate - StartDate + 6
89 ApptCol = (ApptTime - SchedStart) / SchedDur + 5
90 If ApptCol > 53 Then GoTo NextAppt
91 Calendar.Shapes("SampleApptShp").Duplicate.Name = "CalAppt" & ApptID
92 With Calendar.Shapes("CalAppt" & ApptID)
93 .Left = Calendar.Cells(ApptRow, ApptCol).Left
94 .Top = Calendar.Cells(ApptRow, ApptCol).Top + 1
95 If ApptCol + DurCols > 53 Then DurCols = 53 - ApptCol
96 .Width = Range(Calendar.Cells(ApptRow, ApptCol), Calendar.Cells(ApptRow,
97 ApptCol + DurCols)).Width 'Set Appt Width
98 .Height = Calendar.Cells(ApptRow, ApptCol).Height 'Set Height - 1
99 .TextFrame2.TextRange.Text = Format(ApptTime, "h:mm/p") & ": " &
100 ApptName 'Text inside shape
101 If ApptColor <> "" Then .Fill.ForeColor.RGB = ApptColor 'Set Shape color
102 .OnAction = "Calendar_Appt_Select" 'Macro to run
103 End With
104 NextAppt:
105 Next ResultRow
106 Application.ScreenUpdating = True 'Turn on Screen updating
107 End With
108 End Sub
109
110 Sub Calendar_ThisMonth()
111 With Calendar
112 .Range("B6").Value = Month(Date) 'Set Current Month
113 If Year(Date) <> .Range("B5").Value Then
114 .Range("B5").Value = Year(Date) 'Set to current year
115 Calendar_Refresh 'Refresh Calendar
116 End If
117 Calendar_GoToMonth 'Go to specific month
118 End With
119 End Sub

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# Thank You!

This source code was created and made available to help you gain a better understanding of how VBA is used to create amazing Excel-based applications.

Thank you so much for your continued shares, likes and support. It really helps.



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