

VBA SOURCE CODE BOOK

EXCEL CALENDAR TEMPLATE

SEPTEMBER, 2023

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY										
27	28	29	30	31	1	2										
3	4	5	6	7:00 PM: School Board	8	9										
10	11	7:00 PM: PTA Meeting	12	13	8:00 AM: School Picture Day	14	15	10:00 AM: Homecoming	7:00 PM: Homecoming	16						
17	18	4:00 PM: Parent-Teacher	19	20	21	22	23	24	25	26	27	28	29	30	7:00 PM: School Fundraiser	9:00 PM: Teacher

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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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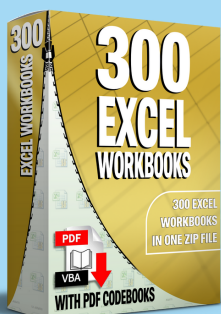
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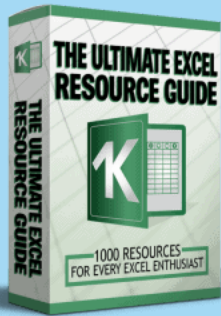
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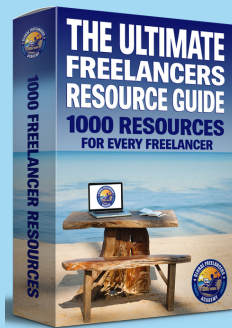
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```
1 Option Explicit
2
3 Private Sub Worksheet_SelectionChange(ByVal Target As Range)
4     If Target.CountLarge > 1 Then Exit Sub
5     If Shapes("ColorPalette").Visible = True Then Shapes("ColorPalette").Visible =
        msoFalse
6
7     'Show color palette
8     If Not Intersect(Target, Range("F7")) Is Nothing Then
9         With Shapes("ColorPalette")
10            .Left = Range("F" & Target.Row).Left
11            .Top = Range("F" & Target.Row + 1).Top
12            .Visible = msoCTrue
13        End With
14    End If
15 End Sub
```

1 Option Explicit

2

1	Option Explicit
2	

1 Option Explicit

2

```
1 Option Explicit
```

```
2
```

```
3 Sub Admin_SetPlatformColor()
```

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

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

```
6 End Sub
```

```

1 Option Explicit
2 Dim CalRow As Long, CalCol As Long, LastRow As Long, LastResultRow As Long, ResultRow
  As Long
3 Dim ItemNumb As Long, DayItemCount As Long
4 Dim ItemColor As String, ItemID As String, ItemName As String
5 Dim ItemShp As Shape
6 Dim ItemDate As Date, ItemTime As String
7
8
9 Sub Calendar_Item_Select()
10 With Calendar
11     ItemID = Replace(Application.Caller, Left(Application.Caller, 7), "" ) 'Extract
      Item ID
12     .Range("B9" ).Value = ItemID
13     Item_Load
14 End With
15 End Sub
16
17 Sub Calendar_NextMonth()
18 With Calendar
19     If .Range("B2" ).Value = 7 And .Range("B5" ).Value = 12 Then
20         MsgBox "You are at the last year and first last available"
21         Exit Sub
22     End If
23     If .Range("B5" ).Value = 12 Then 'December Month
24         .Range("B2" ).Value = .Range("B2" ).Value + 1 'Increase Year by 1
25         .Range("B5" ).Value = 1 'Set To January
26     Else 'Not January
27         .Range("B5" ).Value = .Range("B5" ).Value + 1 'Increase month by 1
28     End If
29     Calendar_Refresh 'Refresh Calendar
30 End With
31 End Sub
32
33 Sub Calendar_PrevMonth()
34 With Calendar
35     If .Range("B2" ).Value = 1 And .Range("B5" ).Value = 1 Then
36         MsgBox "You are at the first year and first month available"
37         Exit Sub
38     End If
39     If .Range("B5" ).Value = 1 Then 'January Month
40         .Range("B2" ).Value = .Range("B2" ).Value - 1 'Reduce Year by 1
41         .Range("B5" ).Value = 12 'Set To December
42     Else 'Not January
43         .Range("B5" ).Value = .Range("B5" ).Value - 1 'Reduce month by 1
44     End If
45     Calendar_Refresh 'Refresh Calendar
46 End With
47 End Sub
48
49 Sub Calendar_Refresh()
50 'Clear all existing item shapes from Calendar sheet
51 For Each ItemShp In Calendar.Shapes
52     If InStr(ItemShp.Name, "CalItem" ) > 0 Then ItemShp.Delete
53 Next ItemShp
54 ItemColor = Admin.Range("F7" ).Interior.Color 'Set Item Shape Color
55 ItemNumb = 1 'Set default item # to 1
56 With ItemsDB
57     LastRow = .Range("A99999" ).End(xlUp).Row 'Last Item Row
58     If LastRow < 4 Then Exit Sub
59     Application.ScreenUpdating = False

```

```

1 2
60 .Range("A3:F" & LastRow).AdvancedFilter xlFilterCopy, CriteriaRange:=.Range(
    "I2:J3" ), CopyToRange:=.Range("M2:Q2" ), Unique:=True
61 LastResultRow = .Range("M9999" ).End(xlUp).Row
62 If LastResultRow < 3 Then Exit Sub
63 If LastResultRow < 4 Then GoTo NoSort
64 With .Sort
65     .SortFields.Clear
66     .SortFields.Add Key:=ItemsDB.Range("O3" ), SortOn:=xlSortOnValues, Order:=
        xlAscending, DataOption:=xlSortNormal 'Sort Based On Date
67     .SortFields.Add Key:=ItemsDB.Range("P3" ), SortOn:=xlSortOnValues, Order:=
        xlAscending, DataOption:=xlSortNormal 'Sort Based On Time
68     .SetRange ItemsDB.Range("M3:Q" & LastResultRow) 'Set Range
69     .Apply 'Apply Sort
70 End With
71 NoSort:
72 For ResultRow = 3 To LastResultRow
73     ItemID = .Range("M" & ResultRow).Value 'item ID
74     ItemName = .Range("N" & ResultRow).Value 'Item Name
75     ItemDate = .Range("O" & ResultRow).Value 'Item Date
76     ItemTime = Format(.Range("P" & ResultRow).Value, "h:mm AM/PM" )
77     DayItemCount = Application.WorksheetFunction.CountIf([ItemDate_Results],
        ItemDate) 'Get # of Items in a single Date
78     If DayItemCount > 5 Then DayItemCount = 5 'Set Item Limit to 5
79     For CalRow = 4 To 34 Step 6
80         For CalCol = 4 To 10
81             If Calendar.Cells(CalRow, CalCol).Value = ItemDate Then 'Day Found
82                 Calendar.Shapes("SampleItemShp" ).Duplicate.Name = "CalItem" &
                    ItemID
83                 With Calendar.Shapes("CalItem" & ItemID)
84                     .Left = Calendar.Cells(CalRow, CalCol).Left 'Set Left Pos.
85                     .Top = Calendar.Cells(CalRow + ItemNumb, CalCol).Top + 1
86                     .Width = Calendar.Cells(CalRow + ItemNumb, CalCol).Width
87                     .Height = Calendar.Cells(CalRow + ItemNumb, CalCol).Height
88                     .TextFrame2.TextRange.Text = ItemTime & ": " & ItemName 'Text
                        inside shape
89                     .Fill.ForeColor.RGB = ItemColor 'Set Item Color
90                     .OnAction = "Calendar_Item_Select" 'Macro to select item
91                 End With
92                 If ItemNumb >= DayItemCount Then
93                     ItemNumb = 1 'Reset
94                 Else
95                     ItemNumb = ItemNumb + 1 'Increment by 1
96                 End If
97             End If
98         Next CalCol
99     Next CalRow
100 Next ResultRow
101 End With
102 Application.ScreenUpdating = True
103 End Sub
104
105 Sub Calendar_ThisMonth()
106     With Calendar
107         .Range("B5" ).Value = Month(Date) 'Set Current Month #
108         .Range("B2" ).Value = Admin.Range("Years" ).Find(Year(Date), , xlFormulas,
            xlWhole).Row - 3
109         Calendar_Refresh 'Refresh Calendar
110     End With
111 End Sub
112

```

```

1 Option Explicit
2
3 Dim ItemRow As Long, ItemCol As Long
4
5 Sub Item_Delete()
6     If MsgBox("Are you sure you want to delete this Calendar Item?" , vbYesNo, "Delete
7         Item" ) = vbNo Then Exit Sub
8     With Calendar
9         If .Range("B10" ).Value = Empty Then GoTo NotSaved
10        ItemRow = .Range("B10" ).Value 'Item row
11        ItemsDB.Range(ItemRow & ":" & ItemRow).EntireRow.Delete 'Delete Row
12        NotSaved:
13        Item_New
14        Calendar_Refresh 'Refresh calendar
15    End With
16 End Sub
17
18 Sub Item_Load()
19     With Calendar
20         If .Range("B10" ).Value = Empty Then
21             MsgBox "Please select a correct calendar item to load"
22             Exit Sub
23         End If
24         ItemRow = .Range("B10" ).Value 'Item Row
25         For ItemCol = 2 To 6
26             .Range("M" & ItemCol + 2).Value = ItemsDB.Cells(ItemRow, ItemCol).Value
27             'Bring Over data
28         Next ItemCol
29     End With
30 End Sub
31
32 Sub Item_New()
33     Calendar.Range("B9,M4:M9" ).ClearContents 'Clear Out
34 End Sub
35
36 Sub Item_SaveUpdate()
37     With Calendar
38         If .Range("M4" ).Value = Empty Or .Range("M5" ).Value = Empty Or .Range("M6" ).
39             Value = Empty Then
40                 MsgBox "Please make sure to add in an Item Name, Date & Time"
41                 Exit Sub
42             End If
43             If .Range("B10" ).Value = Empty Then 'New Item
44                 ItemRow = ItemsDB.Range("A99999" ).End(xlUp).Row + 1 'First Avail. Row
45                 .Range("B9" ).Value = .Range("B11" ).Value 'Set Item ID
46                 ItemsDB.Range("A" & ItemRow).Value = .Range("B9" ).Value 'Item ID
47             Else 'Existing Item
48                 ItemRow = .Range("B10" ).Value 'Existing Item Row
49             End If
50             For ItemCol = 2 To 6
51                 ItemsDB.Cells(ItemRow, ItemCol).Value = .Range("M" & ItemCol + 2).Value
52                 'Save/ Update data
53             Next ItemCol
54             Calendar_Refresh 'Refresh calendar
55             MsgBox "Item Saved"
56         End With
57     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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