

VBA SOURCE CODE BOOK

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Product #	Description	Type	Style	Color	Purch. Qty	Price	Vendor
BA101F	LADIES ONLY T-SHIRT	Mens	Hoodie	Blue	12	\$ 19.89	Acme Shirt Co.
ST201	LADIES PERFECT T	Womens	Polo	Blue	12	\$ 15.78	Acme Shirt Co.
BA190B	KIDS EXACT 190 T-SHIRT	Mens	Hoodie	Red	12	\$ 24.54	Acme Shirt Co.
GD01	ADULT T-SHIRT	Womens	Polo	Red	24	\$ 15.58	Acme Shirt Co.
GD03	ADULT T-SHIRT	Womens	Polo	Blue	24	\$ 16.98	Acme Shirt Co.
GD04	ULTRA COTTON ADULT T SHIRT	Mens	Hoodie	Red	20	\$ 16.98	Acme Shirt Co.
BA291	MENS TOO CHIC T-SHIRT	Womens	Polo	Red	24	\$ 18.98	Acme Shirt Co.
GD04	ADULT T-SHIRT	Womens	Polo	Blue	24	\$ 18.95	Acme Shirt Co.
GD05	ULTRA COTTON ADULT T SHIRT	Mens	Hoodie	Red	20	\$ 18.95	Acme Shirt Co.
BA292	MENS TOO CHIC T-SHIRT	Womens	Polo	Red	24	\$ 16.98	Acme Shirt Co.
BA291	MENS TOO CHIC T-SHIRT	Womens	Hoodie	Blue	24	\$ 18.98	Acme Shirt Co.
GD05	ULTRA COTTON ADULT T SHIRT	Mens	Hoodie	Blue	20	\$ 18.95	Acme Shirt Co.
BA292	MENS TOO CHIC T-SHIRT	Womens	Polo	Blue	24	\$ 16.98	Acme Shirt Co.
GD05	ADULT T-SHIRT	Womens	Polo	Blue	24	\$ 15.58	Acme Shirt Co.

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by: *Randy Austin*

ABOUT THE AUTHOR

A two-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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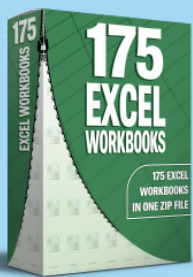
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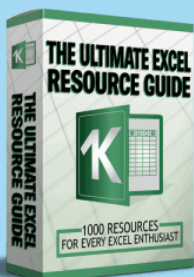
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```
1 Option Explicit
2
3
4 Private Sub Worksheet_Change(ByVal Target As Range)
5     If Target.CountLarge > 1 Then Exit Sub
6     Dim LastRow As Long
7     On Error Resume Next
8     If Not Intersect(Target, Range("F5:H5" )) Is Nothing And Target.Value <> Empty Then
9         LastRow = Cells(999, Target.Column + 21).End(xlUp).Row
10        Cells(LastRow + 1, Target.Column + 21).Value = Target.Value
11        Target.ClearContents
12        BuiltFilters
13        FilterTable
14    End If
15 End Sub
```

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```

1 Option Explicit
2 Sub BuiltFilters()
3     Dim FiltCol As Long
4     Dim FiltRow As Long
5     Dim LastFiltRow As Long
6     Dim ShapeNum As Long
7     Dim FiltShapeNum As Long
8     Dim FiltNumber As Long
9     With Sheet1
10        'Hide All shapes
11        For ShapeNum = 1 To 12
12            .Shapes("FiltShape" & ShapeNum).Visible = msoFalse
13            .Shapes("CloseBtn" & ShapeNum).Visible = msoFalse
14        Next ShapeNum
15        FiltShapeNum = 1
16        For FiltCol = 27 To 29
17            LastFiltRow = .Cells(99, FiltCol).End(xlUp).Row
18            If LastFiltRow < 5 Then GoTo NextCol
19            For FiltRow = 5 To LastFiltRow
20                With .Shapes("FiltShape" & FiltShapeNum)
21                    .Visible = msoCTrue
22                    .TextFrame2.TextRange = Sheet1.Cells(FiltRow, FiltCol).Value
23                    .TextFrame.AutoSize = True
24                    .Height = 15
25                    .Width = .Width + 10
26                    .Left = 10
27                    .Top = 153.75 + (18.08 * (FiltShapeNum - 1))
28                    .Placement = xlFreeFloating
29                End With
30                With .Shapes("CloseBtn" & FiltShapeNum)
31                    .Visible = msoCTrue
32                    .Left = Sheet1.Shapes("FiltShape" & FiltShapeNum).Left
33                    .IncrementLeft Sheet1.Shapes("FiltShape" & FiltShapeNum).Width - 14
34                    .Top = 155 + (18.08 * (FiltShapeNum - 1))
35                End With
36                FiltShapeNum = FiltShapeNum + 1
37            Next FiltRow
38        NextCol:
39        Next FiltCol
40    End With
41 End Sub
42 Sub ClearFilter()
43     Dim ShapeNum As Long
44     With Sheet1
45        'Hide All shapes
46        For ShapeNum = 1 To 12
47            .Shapes("FiltShape" & ShapeNum).Visible = msoFalse
48            .Shapes("CloseBtn" & ShapeNum).Visible = msoFalse
49        Next ShapeNum
50        .Range("AA5:AC11").ClearContents 'Clear Criteria
51        FilterTable 'Rerun filter with no criteria
52    End With
53 End Sub
54 Sub FilterTable()
55     Dim LastDataRow As Long
56     Dim LastFiltRow As Long
57     Dim LastTypeRow As Long
58     Dim LastStyleRow As Long
59     Dim LastColorRow As Long
60     StopCalc
61     With Sheet1

```

```

1 2
62 LastDataRow = .Range("AF9999" ).End(xlUp).Row
63 LastTypeRow = .Range("AA99" ).End(xlUp).Row
64 LastStyleRow = .Range("AB99" ).End(xlUp).Row
65 LastColorRow = .Range("AC99" ).End(xlUp).Row
66 .Range("D6:K9999,AP5:B09999" ).ClearContents 'Clear filtered data & results
67
68 'Run Type Filter
69 .Range("AF4:AM" & LastDataRow).AdvancedFilter xlFilterCopy, CriteriaRange:=.Range(
"AA4:AA" & LastTypeRow), CopyToRange:=.Range("AP4:AW4" ), Unique:=False
70 LastFiltRow = .Range("AP9999" ).End(xlUp).Row
71 If LastFiltRow < 5 Then GoTo NoData
72
73 'Run Style Filters
74 .Range("AP4:AW" & LastFiltRow).AdvancedFilter xlFilterCopy, CriteriaRange:=.Range(
"AB4:AB" & LastStyleRow), CopyToRange:=.Range("AY4:BF4" ), Unique:=False
75 LastFiltRow = .Range("AY9999" ).End(xlUp).Row
76 If LastFiltRow < 5 Then GoTo NoData
77
78 'Run Color Filters
79 .Range("AY4:BF" & LastFiltRow).AdvancedFilter xlFilterCopy, CriteriaRange:=.Range(
"AC4:AC" & LastColorRow), CopyToRange:=.Range("BH4:B04" ), Unique:=False
80 LastFiltRow = .Range("BH9999" ).End(xlUp).Row
81 If LastFiltRow < 5 Then GoTo NoData
82 .Range("D6:K" & LastFiltRow + 1).Value = .Range("BH5:B0" & LastFiltRow).Value 'Copy
over values
83 NoData:
84 .Shapes("ClearFiltBtn" ).Visible = msoCTrue
85 End With
86 ResetCalc
87 End Sub
88
89 Sub GetUniqueLists()
90 Dim LastRow As Long
91 With Sheet1
92 On Error Resume Next
93 .Names("Criteria" ).Delete 'Remove Any Existing Criteria Names (Important)
94 On Error GoTo 0
95 .Range("S5:U99" ).ClearContents 'Clear Old Unique lists
96 LastRow = .Range("AF9999" ).End(xlUp).Row 'LastRow of Original Data
97 .Range("AH4:AH" & LastRow).AdvancedFilter xlFilterCopy, , CopyToRange:=.Range("S4" ),
Unique:=True
98 .Range("AI4:AI" & LastRow).AdvancedFilter xlFilterCopy, , CopyToRange:=.Range("T4" ),
Unique:=True
99 .Range("AJ4:AJ" & LastRow).AdvancedFilter xlFilterCopy, , CopyToRange:=.Range("U4" ),
Unique:=True
100 End With
101 End Sub
102
103

```

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```
1 Option Explicit
2
3 Dim RmvFiltNum As Long
4
5 Sub RemoveFilt1()
6     RmvFiltNum = 1
7     RemoveFilter
8 End Sub
9 Sub RemoveFilt10()
10    RmvFiltNum = 10
11    RemoveFilter
12 End Sub
13 Sub RemoveFilt11()
14    RmvFiltNum = 11
15    RemoveFilter
16 End Sub
17 Sub RemoveFilt12()
18    RmvFiltNum = 12
19    RemoveFilter
20 End Sub
21 Sub RemoveFilt2()
22    RmvFiltNum = 2
23    RemoveFilter
24 End Sub
25 Sub RemoveFilt3()
26    RmvFiltNum = 3
27    RemoveFilter
28 End Sub
29 Sub RemoveFilt4()
30    RmvFiltNum = 4
31    RemoveFilter
32 End Sub
33 Sub RemoveFilt5()
34    RmvFiltNum = 5
35    RemoveFilter
36 End Sub
37 Sub RemoveFilt6()
38    RmvFiltNum = 6
39    RemoveFilter
40 End Sub
41 Sub RemoveFilt7()
42    RmvFiltNum = 7
43    RemoveFilter
44 End Sub
45 Sub RemoveFilt8()
46    RmvFiltNum = 8
47    RemoveFilter
48 End Sub
49 Sub RemoveFilt9()
50    RmvFiltNum = 9
51    RemoveFilter
52 End Sub
53
54 Sub RemoveFilter()
55     If RmvFiltNum = 0 Then Exit Sub
56     Dim CriteriaText As String
57     Dim CriteriaRng As Range
58     Dim FoundCriteriaRng As Range
59     Dim FoundRow As Long
60     Dim FoundCol As Long
61     Dim LastCritRow As Long
```

1

```
1
62 With Sheet1
63     CriteriaText = .Shapes("FiltShape" & RmvFiltNum).TextFrame2.TextRange
64     Set CriteriaRng = .Range("CriteriaRange" )
65     Set FoundCriteriaRng = CriteriaRng.Find(CriteriaText, , xlValues, xlWhole)
66     If Not FoundCriteriaRng Is Nothing Then
67         FoundCol = FoundCriteriaRng.Column
68         FoundRow = FoundCriteriaRng.Row
69         .Cells(FoundRow, FoundCol).ClearContents 'Remove Criteria
70         LastCritRow = .Cells(12, FoundCol).End(xlUp).Row 'Last Critiera Row
71         If LastCritRow > FoundRow Then
72             Range(.Cells(FoundRow, FoundCol), .Cells(LastCritRow - 1, FoundCol)).Value =
73             Range(.Cells(FoundRow + 1, FoundCol), .Cells(LastCritRow, FoundCol)).Value
74             .Cells(LastCritRow, FoundCol).ClearContents 'clear last value
75         End If
76         BuiltFilters 'Rebuild Filter Shapes
77         FilterTable 'Re-filter list
78     End If
79 End With
80 End Sub
81
82 Sub ResetCalc()
83     With Application
84         .EnableEvents = True
85         .Calculation = xlCalculationAutomatic
86         .ScreenUpdating = True
87     End With
88 End Sub
89
90 Sub StopCalc()
91     With Application
92         .EnableEvents = False
93         .Calculation = xlCalculationManual
94         .ScreenUpdating = False
95     End With
96 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.

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