John M Warlop

Visual Basic Screen Shots

Due 3/5/18

2014

2015

2016

Source Code

2014

	A	B	C	D	E	F	G	H	I	J	K	L
1	<ticker>	<date>	<open>	<high>	<low>	<close>	<vol>					
2	A	20140101	57.19	57.19	57.19	57.19	0		A	-16.25	-0.2841406	572978100
3	A	20140102	57.1	57.1	56.15	56.21	1916100		AA	15.48	0.48541863	5161412000
4	A	20140103	56.39	57.35	56.26	56.92	1866600		AA-B	1.34	0.02728569	21618200
5	A	20140106	57.4	57.7	56.56	56.64	1777400		AAC	10.92	0.546	9789700
6	A	20140107	56.95	57.63	56.93	57.45	1463200		AAN	1.17	0.03979592	237929300
7	A	20140108	57.33	58.54	57.17	58.39	2659400		AAP	48.6	0.43910372	200376400
8	A	20140109	58.4	58.68	57.87	58.41	1757600		AAT	8.38	0.26662424	40207800
9	A	20140110	58.51	59.01	58.14	58.93	1623300		AAV	0.45	0.10368664	86658700
10	A	20140113	58.77	59.1	58.6	58.93	2946700		AB	4.49	0.210403	83051600
11	A	20140114	59.16	59.95	59.02	59.88	2562200		ABB	-5.41	-0.2036898	466820000
12	A	20140115	59.82	60.37	59.59	60.34	2335100		ABBV	12.63	0.23915925	2303237600
13	A	20140116	60.24	60.5	60.04	60.5	1835900		ABC	19.85	0.28232115	428969000
14	A	20140117	60.83	60.83	60.33	60.71	1699500		ABEV	-1.13	-0.1537415	3208014300
15	A	20140120	60.71	60.71	60.71	60.71	0		ABG	22.18	0.41272795	81065600
16	A	20140121	60.69	60.88	59.86	60.85	3008400		ABM	0.06	0.00209864	52403000
17	A	20140122	60.82	61.22	60.71	60.93	2769300		ABR	0.11	0.01651652	28348400
18	A	20140123	60.48	60.51	59.4	59.47	3063500		ABR-A	0.77	0.03179191	1798500
19	A	20140124	59.46	59.46	57.71	57.87	2656300		ABR-B	2.09	0.09243697	1722000
20	A	20140127	57.9	58.37	56.98	58.3	4669000		ABR-C	0.94	0.0386037	1758200
21	A	20140128	58.5	58.88	57.91	58.1	2536200		ABRN	0.49	0.02040816	3451100
22	A	20140129	57.67	58.22	57.41	57.65	2163000		ABT	6.69	0.17453692	1516024700
23	A	20140130	58.42	60.11	58.42	59.51	3743100		ABX	-6.88	-0.3902439	3085372400
24	A	20140131	58.61	59.15	58.05	58.15	3529000		ACC	9.15	0.28407327	180543400
25	A	20140203	58.15	58.48	56.08	56.15	2929200		ACCO	2.29	0.34077381	223248000
26	A	20140204	56.32	57.88	56.09	57.81	2911800		ACH	2.82	0.32413793	34117500
27	A	20140205	57.58	57.7	56.96	57.43	2283800		ACM	0.94	0.0319402	303393900
28	A	20140206	57.51	58.35	57.46	58.29	1609400		ACN	7.09	0.08623206	705479100
29	A	20140207	58.46	59.47	58.13	59.42	1975200		ACP	-2.47	-0.1405006	14206700
30	A	20140210	59.27	59.44	58.29	59.01	1760400		ACRE	-1.62	-0.1236641	44197000
31	A	20140211	59	60	58.88	59.73	2148200		ACW	0.61	0.16353887	60360500
32	A	20140212	60	60.46	59.67	59.89	2347200		ADC	2.07	0.07133012	16456400

N21

2016   2015   **2014**   +

2015

	A	B	C	D	E	F	G	H	I	J	K	L
1	<ticker>	<date>	<open>	<high>	<low>	<close>	<vol>					
2	A	20150101	40.94	40.94	40.94	40.94	0		A	0.87	0.02125061	645319200
3	A	20150102	41.18	41.31	40.37	40.56	1530700		AA	-17.76	-0.3749208	6449104200
4	A	20150105	40.32	40.46	39.7	39.8	2042200		AA-B	-17.14	-0.3397423	40441700
5	A	20150106	39.81	40.02	39.02	39.18	2084500		AAC	-11.86	-0.3835705	78122300
6	A	20150107	39.52	39.81	39.29	39.7	3359600		AAN	-8.18	-0.2675826	179606700
7	A	20150108	40.24	40.98	40.18	40.89	2116300		AAP	-8.77	-0.0550603	266930500
8	A	20150109	41	41	40.29	40.59	1644900		AAT	-1.46	-0.0366742	48158100
9	A	20150112	40.61	40.72	39.95	40.11	2771100		AAV	0.29	0.0605428	30229400
10	A	20150113	40.47	40.7	39.33	39.55	2013400		AB	-1.98	-0.0766551	71403800
11	A	20150114	39.03	39.1	38.21	39.06	5134000		ABB	-3.42	-0.1617021	532805500
12	A	20150115	39.33	39.41	37.99	38.01	2630200		ABBV	-6.2	-0.0947433	2643021600
13	A	20150116	37.86	38.46	37.76	38.25	3003900		ABC	13.55	0.15028838	516218400
14	A	20150119	38.25	38.25	38.25	38.25	0		ABEV	-1.76	-0.2829582	3915345800
15	A	20150120	38.43	38.66	37.76	37.93	5033600		ABG	-8.48	-0.1116965	82930400
16	A	20150121	37.75	38.41	37.68	38.16	2721600		ABM	-0.18	-0.0062827	72539400
17	A	20150122	38.51	39.86	38.12	39.65	4856500		ABR	0.38	0.05612999	37916900
18	A	20150123	39.6	39.6	38.76	38.81	1519200		ABR-A	-0.49	-0.0196078	1243100
19	A	20150126	38.79	39.17	38.47	39.15	1511200		ABR-B	-2.14	-0.0866397	1022000
20	A	20150127	38.7	39.25	38.58	38.75	1703500		ABR-C	-0.12	-0.004745	634000
21	A	20150128	39.01	39.05	37.96	38	2033500		ABRN	0.1	0.00408163	2109900
22	A	20150129	38	38.47	37.69	38.46	2329900		ABT	-0.11	-0.0024434	1469310700
23	A	20150130	38.01	38.32	37.71	37.77	3054300		ABX	-3.37	-0.3134884	4289215100
24	A	20150202	37.9	38.76	37.71	38.69	2508400		AC	1	0.03389831	437700
25	A	20150203	39.04	39.63	38.92	39.62	2950300		ACC	-0.02	-0.0004836	228980000
26	A	20150204	39.33	39.46	38.82	39.11	2567400		ACCO	-1.88	-0.208657	167330800
27	A	20150205	39.22	39.82	39.22	39.53	1826300		ACH	-3.28	-0.2847222	35801000
28	A	20150206	39.54	39.81	39.23	39.34	2697200		ACM	-0.34	-0.0111953	362299600
29	A	20150209	39.23	39.43	38.95	39.04	3586100		ACN	15.19	0.17008174	625655000
30	A	20150210	39.31	39.76	38.78	39.67	1408700		ACP	-3.76	-0.2488418	14348400
31	A	20150211	39.64	39.81	39.23	39.33	3337000		ACRE	-0.04	-0.0034843	39118800
32	A	20150212	39.58	40.06	39.53	40.02	1317700		ACV	-6.79	-0.2721443	11539300

| ◀ | ▶ | 2016 | **2015** | 2014 | + |

2016

	A	B	C	D	E	F	G	H	I	J	K	L
1	<ticker>	<date>	<open>	<high>	<low>	<close>	<vol>		Ticker	Yearly Change	Percent Change	Total Stock Volume
2	A	20160101	41.81	41.81	41.81	41.81	0		A	3.75	0.089691461	528576200
3	A	20160104	41.06	41.19	40.34	40.69	3287300		AA	-1.53	-0.051671733	5208239000
4	A	20160105	40.73	40.95	40.34	40.55	2587200		AAC	-11.82	-0.620146905	57179800
5	A	20160106	40.24	40.99	40.05	40.73	2103600		AAN	9.6	0.428762841	184809000
6	A	20160107	40.14	40.15	38.81	39	3504300		AAP	18.61	0.123646269	262665300
7	A	20160108	39.22	39.71	38.47	38.59	3736700		AAT	4.73	0.123337679	49026400
8	A	20160111	38.71	38.9	37.41	37.94	2818600		AAV	1.67	0.328740157	27358200
9	A	20160112	38.43	38.58	37.65	38.19	1989300		AB	-0.4	-0.016771488	64736300
10	A	20160113	38.35	38.47	36.72	36.86	4206600		ABB	3.34	0.188381275	503779400
11	A	20160114	36.94	37.88	36.55	37.61	2893300		ABBV	3.38	0.057056043	2034231800
12	A	20160115	36.67	37.56	36.55	37.11	2994300		ABC	-25.52	-0.246070774	647239900
13	A	20160118	37.11	37.11	37.11	37.11	0		ABEV	0.45	0.100896861	4199335100
14	A	20160119	37.64	37.92	36.79	37.2	2506500		ABG	-5.74	-0.085112693	89828200
15	A	20160120	36.68	37.61	36.13	37.26	2469000		ABM	12.37	0.434492448	79787400
16	A	20160121	37.35	37.83	36.81	37.23	2298300		ABR	0.31	0.043356643	27556100
17	A	20160122	37.91	38.18	37.58	37.98	1834400		ABR-A	0.57	0.023265306	792500
18	A	20160125	37.4	38.03	37.4	37.61	1831200		ABR-B	2.02	0.089539007	795300
19	A	20160126	37.89	37.96	37.36	37.51	1755000		ABR-C	0.18	0.007151371	521300
20	A	20160127	37.39	37.92	36.81	37.05	1479400		ABRN	0.7	0.028455285	1759800
21	A	20160128	37.27	37.27	36.01	36.11	3479400		ABT	-6.5	-0.144733912	2298099600
22	A	20160129	36.44	37.69	36.31	37.65	2959800		ABX	8.6	1.165311653	4996990800
23	A	20160201	37.37	37.95	37	37.69	2666500		AC	2.35	0.07704918	6530000
24	A	20160202	37.18	37.55	36.95	37.07	1742300		ACC	8.43	0.203918723	258457600
25	A	20160203	37.27	37.36	36.29	37.19	2128400		ACCO	5.92	0.83029453	163653100
26	A	20160204	37.15	37.79	36.97	37.42	2833400		ACH	1.97	0.23907767	11563400
27	A	20160205	37.26	37.31	35.83	36.04	4424600		ACM	6.33	0.210789211	296759000
28	A	20160208	35.61	35.78	34.39	34.8	3888600		ACN	12.63	0.120861244	650155300
29	A	20160209	34.21	35.77	34.15	35.37	3464400		ACP	2.08	0.183259912	21179200
30	A	20160210	35.63	36.73	35.53	35.85	3169900		ACRE	2.29	0.200174825	35062000
31	A	20160211	35.12	35.61	34.94	35.33	3224000		ACV	0.62	0.034140969	12734300
32	A	20160212	35.84	36.23	35.52	36.22	3923600		ADC	12.06	0.354810238	51966400

Source Code

```vb
1
2      ' Given starting row,col return array of ranges for column
3      ' Used to find column range for a column that has same content
4      Function getColRanges(Row As Long, Col As Long, size As Long) As Long()
5          Dim rArray() As Long
6          Dim I As Long
7          Dim j As Long
8          Dim k As Long
9          Dim r1 As Long
10         Dim r2 As Long
11         ReDim rArray(1 To size)
12         j = Row
13         I = j
14         k = 1
15         Do
16             c = Cells(j, Col).Value 'starting value
17             Do 'Loop until c changes
18                 j = j + 1
19             Loop Until c <> Cells(j, Col).Value
20             r1 = I
21             r2 = j - 1
22             I = r2 + 1
23             j = I
24             rArray(k) = r1
25             rArray(k + 1) = r2
26             k = k + 2
27         Loop Until IsEmpty(Cells(I, Col).Value) = True
28         getColRanges = rArray()
29
30     End Function
```

```vba
Function Calculate() As Boolean
    Dim I As Long
    Dim j As Long
    Dim k As Long
    Dim l As Integer
    Dim r As Integer
    Dim start As Long
    Dim cStock As String
    Dim rStr As String
    Dim xs As String
    Dim r1 As Long
    Dim r2 As Long
    Dim x As Variant
    Dim volCol As Variant 'Column for Volume
    Dim openVal As Double
    Dim closeVal As Double
    Dim pDelta As Double
    Dim rArray() As Long
    volCol = 12
    openCol = 3
    closeCol = 6

    Dim WS_Count As Integer
    Dim M As Integer
```

```vba
56        ' Get the ranges
57        rArray = getColRanges(2, 1, 128000)
58        '
59        l = 1 'First index into array
60        r = 2 'Set to starting row first
61        For Each Element In rArray
62            If rArray(l) = 0 Then
63                Exit For
64            End If
65            If l Mod 2 <> 0 Then
66                'Get ticker symbol
67                Cells(r \ 2 + 1, 9).Value = Cells(rArray(l), 1).Value
68            Else 'stuff that takes full range odd and even index
69                'Find volume total
70                rStr = "G" & CStr(rArray(l - 1)) & ":G" & CStr(rArray(l))
71                x = Application.WorksheetFunction.Sum(Range(rStr))
72                Cells(r \ 2 + 1, volCol).Value = x
73                'Calculate yearly price change
74                pDelta = Cells(rArray(l), 6).Value - Cells(rArray(l - 1), 3).Value
75                Cells(r \ 2 + 1, 10).Value = pDelta
76                'Calculate yearly percent increase/decrease
77                If Cells(rArray(l - 1), 3) <> 0 Then
78                    pChg = pDelta / (Cells(rArray(l - 1), 3))
79                Else
80                    pChg = 0
81                End If
82                Cells(r \ 2 + 1, 11).Value = pChg
83            End If
84            l = l + 1
85            r = r + 1
86        Next Element
87    End Function
88
```

```vba
89    Function FillCells2Colors(Row As Integer, Col As Integer) As Boolean
90        r = Row
91        c = Col
92        Do
93            If Cells(r, c).Value < 0 Then
94                Cells(r, c).Interior.ColorIndex = 3
95            End If
96            If Cells(r, c).Value > 0 Then
97                Cells(r, c).Interior.ColorIndex = 4
98            End If
99            r = r + 1
100       Loop Until IsEmpty(Cells(r, c).Value) = True
101   End Function
102   Sub Stocks()
103       Dim x As Boolean
104       Dim WS_Count As Integer
105       Dim M As Integer
106       WS_Count = ActiveWorkbook.Worksheets.Count
107       For M = 1 To WS_Count
108               Worksheets(M).Activate
109               x = Calculate()
110               x = FillCells2Colors(2, 10)
111          Next M
112   End Sub
```