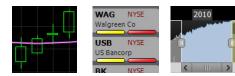


StockFinder 5 Workbook



Updated February 2010



STOCKFINDER 5 WORKBOOK

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STOCKFINDER[®]5 WORKBOOK

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StockFinder[®] 5 Workbook

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1. Unusually High Trading Range

GOAL

To isolate stocks with a higher than normal trading range on the most recent price bar.

CATEGORY

RealCode, Moving Average, Unusual Activity, Sorting

METHOD

Create a *RealCode* indicator for the trading range of a stock and a moving average of that indicator to use as conditions for finding stocks with above average trading range.

STEPS

Here is a step-by-step guide for this exercise. For an alternative method to the steps in this lesson, refer to the RealCode Reference 2nd Edition (pp. 63-68).

OK

Step 1 Click the Add Indicator icon and select New RealCode Indicator from the menu.



Step 2 Name the indicator *Trading Range.* Click *OK*.

Step 3 Enter the following *RealCode* on line 7 in the *RealCode Editor*. Click *OK* .



New RealCode™ Indicator

Name

Step 4 Right-click the *Trading Range* Indicator and choose *Add Child Indicator* from the drop-down menu.



Step 5 In the *Add Indicator to Main Chart* editing box type 'mov' in the *Type to Search* field and choose *Moving Average* from the list. Click *OK*.



Step 6 Right-click *MovAvg 30* and choose *Edit* from the drop-down.

Step 7 In the *Edit MovAvg* window change the *MovAvg Period* on the right from 30 to 50. Click *OK*.

Average Type Simple MovAvg Period

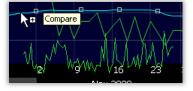
MovAvg 3Q

ading Range

Offset

Step 8 Left-click and drag the *Trading Range* indicator to its *Moving Average* (the word *Compare* and an image of the indicator will appear).

Step 9 Release the mouse button and choose *Create Condition* from the menu that appears.





2

Step 10 Click on the arrow by the drop-down menu and choose *Above MovAvg* 50.

Step 11 In the *Edit* window, move the *Smart Slider* up to *Way Above*. Click *OK* to add the condition to the chart.

Trading Range	
Above MovAvg 50	
Crossing Up Through MovAvg 50	-
Crossing Up Through MovAvg 50 Crossing Down Through MovAvg 50	
Above MovAvg 50	



Step 12 There is now a single *Condition Bubble* on the price chart for *Trading Range Above MovAvg*.



Step 13 Click the Condition Bubble to sort the current WatchList by the new condition and paint the price bars whenever the condition is true.



RESULTS

Every stock in the WatchList with *Sort Lights* passed the Condition and they are grouped at the top of the WatchList.

Sort

Grouped below those with lights will be the stocks in the WatchList with the most recent occurrences of the condition (ascending in value from 1 bar since true).

9	MA	NYSE
	MasterCard Inc	
0	COP	NYSE
	ConocoPhillips	
1	Т	NYSE
	AT&T Inc	
2	AAPL	Nasdao
1.420	Apple Inc 1 bar since	e true
3	SO	NYS
	Southern Compar	ny The
4	HNZ	NYSE
	H 1 Heinz Co	

Paint bars

Finally, the price bars will be painted for the entire stock history every time the condition occurs.





REMEMBER

Some additional notes on using the tools in this exercise:

Limit Range Surge

Changing the *Smart Slider* from *Way Above* to *Clearly Above* will light up more stocks by requiring less of a trading range surge.

Unusually Small Range Surge

Change *Above MovAvg 50* in the Condition to *Below MovAvg 50* and slide the *Smart Slide* to *Way Below* to light up stocks experiencing unusually small trading ranges on the current bar.





2. Price Above 20 & 50 Bar Simple Moving Averages

GOAL

To isolate stocks currently above both their 20 and 50 bar simple moving averages.

CATEGORY

Price, Moving Average, Sort

METHOD

After adding both moving averages, create a Condition for price being above each of the averages. Sort a WatchList using the combined Conditions on a daily and weekly chart. Stocks with *Sort Lights* for both Conditions are trading above both averages on the chart.

STEPS

Here is a step-by-step guide for this exercise. For an alternative method to the steps in this lesson, refer to the RealCode Reference 2nd Edition (pp. 63-68).

RealC

Step 1 Right-click on the *Price History* plot and choose *Add Child Indicator* from the drop-down menu.

Step 2 Type 'mov' and Choose Moving Average from the list.

Repeat the process for a second moving average.

Step 3 Right-click the first *MovAvg* (either the indicator or the name in the legend) and choose

Edit from the drop-down menu. Set the *Period* to 20 and the *Average Type* to *Simple*.

Average Type	Simple	*
MovAvg Period		21 😂
Offset		0 ᅌ

Create Condition Create Market Indicator

Add Child Indicator

Add Indicator to Main Chart

My Indicators Only

Moving Average of 🔊

Bring To Front

Scaling

Copy

Name

Moving Average

Ease of Movement

mov

Create WatchList Column

Repeat the process for the second moving average setting its period to 50.

Step 4 Left-click and drag the Price Plot to the 20period moving average. Release the mouse button when the word



Compare and an image of the indicator appear.

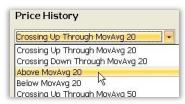
Step 5 Choose *Create Condition* to open the *Edit Condition* window.



Step 6 Choose *Above MovAvg 20* from the dropdown menu. Click *OK*.

Repeat the process for the 50 Bar Moving Average.

Step 7 There are now two *Condition Bubbles* at the bottom left of the price pane on the chart.





Step 8 Left-click and drag one *Condition Bubble* to the other, release the mouse button and choose *Create New Combination Condition*.



Step 9 Name the combination condition *Above MovAvgs*. Click *OK*. There is now one *Condition Bubble* on the chart.

Name	Above MovAvgs
Add Co	ondition 🖓
Pri	ce History Above Moving Average
-	ce History Above Moving Average

Step 10 Click on the combo *Condition Bubble* to sort the current WatchList by the new condition and paint the price bars whenever the condition is true.

Step 11 Change the Time

conditions recalculate for

Frame of the chart to

Weekly to see the

the weekly moving

averages.





RESULTS

Every stock in the WatchList with *Sort Lights* passed the combined Conditions. They are grouped to the top of the WatchList and are currently above both the 20- and 50-day/week (depending on the time frame chosen) moving averages on the chart.



Sort

Grouped below those with lights will be the stocks in the WatchList with the most recent occurrences of the condition (ascending in value from 1 bar since true).



Paint bars

Finally, the price bars will be painted for the entire

stock history every time the condition occurs.



REMEMBER

The *Periods* and *Average Types* of the moving averages can be adjusted as desired. The Time Frame of the chart can be shorter (1 Day or 1 Minute) or longer (1 Month, etc) and the Conditions and *Sort Lights* will adjust to the changes. For stocks above one and not the other or below both, change either or both Conditions from *Above MovAvg X* to *Below MovAvg X*.

3. Adding a Comparison Symbol

GOAL

To add a second price plot in the price pane of the Main Chart for comparison to the price history of the Active Symbol.

CATEGORY

Price, Scaling, Overlaying Plots

METHOD

To add a second price history, use the *Comparison* plot from the indicator library.

STEPS

Here is a step-by-step guide for this exercise.

Step 1 Use the shortcut quick search by typing /comp and select Comparison from the list.

Step 2 In the Add vs to Window, choose Price History from the dropdown. Click *OK*. Type Shortcut and Hit Enter

dd vs to		
Pane	Price History	~
	Л ОК	Cancel

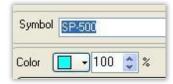
🖡 🕂 Price Histo

Step 3 This puts the plot on top of the existing price plot (for the Active Symbol).

Step 4 Click the *Price History for DJ-30* plot (either the plot itself or the name in the legend) to open the *Edit* window. Change the plot style to *Line* (typical for a comparison symbol).



Step 6 From the *Edit* window change the symbol from *DJ-30* to any other comparison symbol (like *SP-500* or *QQQQ* or a stock symbol).



Symbol SP-500

Step 7 in the color section of the *Edit* window change the color or opacity of the comparison. Click *OK*.

Step 8 To remove the extra scale now showing for the comparison, click on the scale and choose *Hide* from the menu.

Color		100	*	%
Paint	Theme	Bolors		
🔽 SI				
(FF			88	

Invert Scale
Add Horizontal Pointer
Hide

There should now be a price plot (set for any desired symbol) as an overlay in the same pane as the price plot of the Active Symbol.



Display changes to make dual plots easier to distinguish:

Opacity

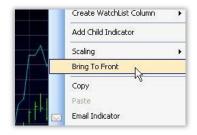
Right-click on the comparison symbol price plot and choose *Edit*. In the color section of the *Edit* window, lower the

Color		+ 75	*	%
Pain	t Sch	ieme- I	none	

opacity of the plot (under its color section).

Priority

Right-click the original (active symbol) Price History plot and choose *Bring to Front* to have it paint above the other plot.





4. ADX Values over Forty

GOAL

Isolate stocks with an Average Directional Index (ADX) value greater than 40.

CATEGORY

ADX, Sorting

METHOD

Create a Condition looking for ADX values greater than 40 then use it to sort a WatchList for stocks that pass the Condition—stocks in a strong up- or down-trend.

STEPS

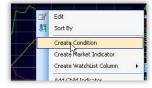
Here is a step-by-step guide for this exercise. For an alternative method to the steps in this lesson, refer to the RealCode Reference 2nd Edition (pp. 63-68).

Step 1 Type /*ADX m* on the chart to open the *Shortcut* window. Select *Directional Movement (DI ADX)* from the list to add an *ADX Indicator* to the chart.

Step 2 Right-click the yellow ADX plot and choose *Create Condition*.

Step 3 In the Edit Condition window, select *Greater Than Value* from the dropdown menu.

Shortcut	
/ADX m	
	M ovement ADX



ADX Line	
Greater Than	
Moving Up	N
Moving Down Percent Change	45
Percent Channe	

Step 4 Set the *Greater than Value* to 40. Click *OK*.

Step 5 There is now a *Condition Bubble* at the lower left of the Price Pane.

Step 6 Click on the *Condition Bubble* to sort the current WatchList by the new condition and paint the price bars whenever the condition is true.

Greater Than		-
> 40.0000	\$	
Passing 1 🚖 o	f last 1 🛟 bar(s)	





If there are any symbols in the WatchList with an ADX value at or greater than 40 they will group to the top of the WatchList with a *Sort Light* of the same color as the Condition.



Sort

Grouped below those with lights will be the stocks in the WatchList with the most recent occurrences of the condition (ascending in value from 1 bar since true).



Paint bars

Finally, the price bars will be painted for the entire stock history every time the condition occurs.



REMEMBER

The Greater Than Value can be set to any number.

Rising ADX

Right-click on the ADX Plot, choose *Create Condition*, set the condition drop-down to *Moving Up*, move the slider to *Very Fast* and set the *Move Period* to 21 to find stocks with a strengthening trend over the last month.

Choose:	
Choose:	
	1 2 T
	19
	1.2
	Very Fast
	- Very rase
	4
	Quickly
	Slowly

Consolidation

Instead of using *Greater Than Value*, use *Less Than Value* and set its Value to 20 to sort for stocks with a low ADX value. Set the values *Passing X out of last X bars* to determine the length of consolidation.

ADX Line	
Less Than	
< 20.0000	
Passing 50 📚 of last 63	😂 bar(s)
enden Mana	R

5. Bollinger Band Breakout

GOAL

To find stocks with prices breaking out of the Bollinger Bands.

CATEGORY

Sort, Paint Price, Price, Volatility, Bollinger Bands, Breakout

METHOD

If a stock has price bars bursting out of the top of the *Bollinger Bands* it could mean that an up-trending stock may be ready for a pullback or reversal. (Conversely, if a stock has price bars bursting out of the bottom of the Bollinger Bands it could mean that a down trending stock may be ready for a reversal move up.) By creating a Condition for the breakout and sorting by it, these stocks are brought to the top of any WatchList.

STEPS

Here is a step-by-step guide for this exercise.

Step 1 Press the (/) key and type "bb" then press enter.

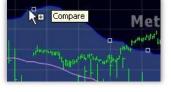
Step 2 In the *Add Bollinger Bands to* dialog box, double click on *Price History* to add the bands.

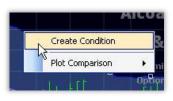
Step 3 Left-click and drag the *Price History Plot* to the top *Bollinger Band* (the word *Compare* and an image of the indicator will appear).

Step 4 Release the mouse button and choose *Create Condition*.









Step 5 Choose Above Bollinger Band Period 20,StdDev 2 TOP from the drop-down menu.

Price History

Crossing Up Through MovAvg 21

Crossing Up Through MovAvg 21

Crossing Down Through MovAvg 21

Above MovAvg 21
Below MovAvg 21

Crossing Up Through Bollinger Bands Period 20, , StdE

Crossing Down Through Bollinger Bands Period 20, , StdDev 2.00-Top
Below Bollinger Bands Period 20, , StdDev 2.00-Top

Step 6 Set value slider to *A Little Above.* Click *OK*.

Step 7 There is now a *Condition Bubble* at the lower left of the Price Pane.



Clearly Above

A Little Above Above

Step 8 Click on the Condition Bubble to sort the

current WatchList by the new condition and paint the price bars whenever the condition is true.



Any stocks in the WatchList with price above the Bollinger Bands have a *Sort Light* (while grouped to the top of the WatchList). Price bars above the top Bollinger Band have the color of the Condition.

St	andard and Poors 10	. *
Fil	ter- none	~
Se	ort- Price History Above	~
	Symbol Price History Above Bollinger Bands-Top - Linked	
1	BNI NYSE Burlington Nth Santa Fe	
2	HNZ NYSE H.J. Heinz Co	
3	GILD Nasdac Gilead Sciences Inc	
4	TGT NYSE	

Sort

Grouped below those with lights will be the stocks in the WatchList with the most recent occurrences of the condition (ascending in value from 1 bar since true).

BNI	NYSE
Burlington Nth Santa	Fe
HNZ	NYSE
H.J. Heinz Co	
GILD	Nasdaq
	e e e e e e e e e e e e e e e e e e e
TGT	NIVSE
	Burlington Nth Santa HNZ H.J. Heinz Co GILD Gilead Sciences Inc 2 bars since th

Paint bars

Finally, the price bars will be painted for the entire stock history every time the condition occurs.



REMEMBER

Here are some alternative ways to use these conditions.

Bottom Breakout

Use the same steps to find a bottom breakout, except in step 5 choose *Below Bollinger Band Period 20, StdDev2 Bottom* and in step 6, set value slider to *A Little Below*.

Create Condition

An alternate method for comparing Price with the *Bollinger Band* is to right-click on the price bars choose *Create Condition* and choose the appropriate Bollinger band condition in the dialog window that appears.

6. Bouncing off the Bottom Band

GOAL

To find down trending stocks with prices bouncing up off the Bollinger Bands.

CATEGORY

Sort, Paint Price, Volatility, Bollinger Bands, Reversal, Sequence Condition

Type Shortcut and Hit Enter

Shortcut /bb

bb

RR &

METHOD

If a stock in a down-trend has price bars bouncing off the bottom of the bands it could mean that a reversal is beginning. By creating a *Sequence Condition* this combination of conditions is easy to uncover.

STEPS

Here is a step-by-step guide for this exercise.

Step 1 Press the (/) key and type "bb" then press enter.

Step 2 In the *Add Bollinger Bands to* dialog box, double click on *Price History* to add the bands.

Step 3 Left-click and drag the *Price History Plot* to the top *Bollinger Band* (the word *Compare* and an image of the indicator will appear).

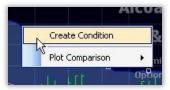
Step 4 Choose *Create Condition.*

Step 5 Choose *Crossing up through Bollinger Band Period 20, StdDev 2 BOTTOM* from the dropdown menu. Click *OK*.

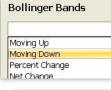


Load Indicator:Bollin

Step 6 Right-click on the *Bollinger Band* plot and choose *Create Condition*.



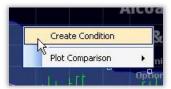
Step 7 Choose *Moving Down* from the drop-down menu.





Step 8 Set value slider to *Very Fast* and *s*et the *Period* to 21. Click *OK*.





Price History Crossing Up Through Moving 21 Crossing Up Through Bollinger Bands Period 20, _stbDev 2.00-Top Crossing Down Through Bollinger Bands Period 20, _stbDev 2.00-Top Bolvo Bollinger Bands Period 20, _stbDev 2.00-Top Bolvo Bollinger Bands Period 20, _stbDev 2.00-Top Crossing Up Through Bollinger Bands Period 20, _stbDev 2.00-Bottom Crossing Down Through Bollinger Bands Period 20, _stbDev 2.00-Bottom Above Bollinger Bands Period 20, _stbDev 2.00-Bottom **Step 9** There are now two *Condition Bubbles* at the bottom left of the price chart. Left-click and drag

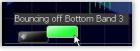
the Moving Down bubble to the Crossing up through Bollinger Band bubble and choose Create New Sequence.



Step 10 Set the *Span in Bars* field to 3. Name the sequence condition *Bouncing off Bottom Band*. Click *OK*.

Name Add Co		ing off E	Botton	1 Band
Span	in Bars	3	÷	
Bol	linger B	ands Mo	oving l	Down
Pri	ce Histo	ry Cros	sing U	Ip Through Bollinger Ba

Step 11 There is now one *Condition Bubble* on the chart.



Step 12 Click on the *Sequence Condition Bubble* to sort the current WatchList by the new condition and paint the price bars whenever the condition is true.

RESULTS

Any stocks in the WatchList with down trending price bars that have broken down through the bottom band and crossed back up have a *Sort Light* while grouping the stocks together at the top of the WatchList.



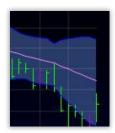
Sort

Grouped below those with lights will be the stocks in the WatchList with the most recent occurrences of the condition (ascending in value from 1 bar since true).



Paint bars

Finally, the price bars will be painted for the entire stock history every time the condition occurs.



REMEMBER

Sequences are both flexible and customizable.

Span in Bars

By increasing the *Span in Bars* setting in the *Sequence Condition*, more time is allotted for the two Conditions to be completed which can lead to more stocks passing the Condition.

Update

Changing the settings for the *Bollinger Bands* will automatically update the Conditions and the sort.

7. Charts with Different Time Frames

GOAL

To incorporate charts representing multiple time-frames into a single Layout.

CATEGORY

Adding Charts, Time Frames

METHOD

Add multiple charts to the active Layout; assign visual real estate to those charts; adjust time-frames for each chart at will.

STEPS

Here is a step-by-step guide for this exercise.

Step 1 Within the

active Layout, click on *New Tab* at the top of the chart to tab a new chart into the Layout.



Step 2 Right-click the new Chart tab's title bar.

Select Dock, then Right, then Main Chart from the sub-menu. The newly added Chart now shares horizontal space with the Main Chart.



Step 3 Click on *New Tab* at the top of the chart again to tab another new chart into the Layout.

Step 4 Rightclick Chart.2's title bar. Select *Dock*, then *Below*, then *Chart*.



Step 5 Use the time-frame selector of each chart to determine the granularity of data plotted on each chart (e.g. Daily, 3-day, Weekly, Hourly, etc.).



Step 6 Add any desired indicators to the additional charts using the Add Indicator icon or (/) shortcut.



Step 7 To make the new charts different symbols,

jump to the desired symbol (by typing the symbol and pressing the enter key) and click the *Lock Icon* at the top left of the desired chart. This locks the symbol for that chart. Repeat for the third chart.



Work with as many charts in as many time-frames as needed. In this exercise access to three charts in three independent time-frames on three distinct symbols is created.



REMEMBER

Docking (vs. *tabbing*) can make charts simultaneously visible and removes the assigned Function [Fx] key for the docked chart. Right-click on the tab at the top of the chart for docking, tabbing and renaming options.



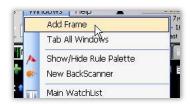
Hot Keys

Each time a chart is added to a Layout, it is automatically added as a tabbed item, which receives an [Fx] key as a hotkey. As an alternative to using the mouse to select charts press the appropriate Function [Fx] key on the keyboard to view the associated chart.

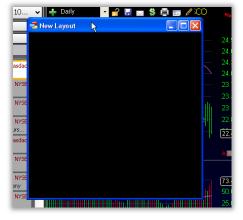


Multiple Monitors

To add charts to a separate monitor, click on the *Windows* menu, choose *Add New Frame*.



Drag the frame to the desired monitor and then drag charts into that frame.



8. Creating a TRIX Histogram

GOAL

To create a TRIX Histogram which, like a MACD Histogram, compares where the TRIX Indicator is relative to its own Moving Average (trigger line).

CATEGORY

TRIX, Moving Average, Compare Plots, Scaling, Plot Style

METHOD

Use the TRIX indicator and its Moving Average—found in the Indicator Library—to create a secondary oscillator.

STEPS

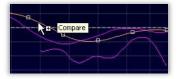
Here is a step-by-step guide for this exercise.

Step 1 Click the Add Indicator icon. As a shortcut, press the (/) key on the keyboard.

Step 2 Type TRIX to limit the list of available indicators. Double-click the *TRIX* indicator to add the indicator to the active chart. This indicator is added to the chart within its own pane.

Step 3 Left-click and drag the TRIX indicator onto its *Moving Average* (the word *Compare* and an image of the indicator will appear).

Step 4 Select *Plot Comparison* from the menu that appears; then select *Difference*.



Main Chart [F1]

Daily

Type Shortcut and Hit Enter

TDTY of Indicator

Shortcut:

/trix

TRIX

X

Price History

Indic

India



Step 5 Right-click on the newly plotted *Difference Indicator* and choose *Edit* from the drop-down menu.

Step 6 Within the *Edit* window, change the *Plot Style* from *Line* to *Bar* using the *Plot Style* drop-down. Click *OK*.





Step 7 Left-click and drag the Difference plot (TRIX

Histogram) into the original TRIX indicator pane until the tooltip reading *Overlay or Move Pane* appears. Select *Overlay*.

Step 8 Right-click the TRIX Histogram; then select *Scale With*; then select *TRIX*.



Create WatchList Column	· · · · · · · · · · · · · · · · · · ·
Add Child Indicator	Edit
Scaling	Arithmetic
Bring To Front	Logarithmic
Copy	Fixed % Log Exponential
Email Indicator Save Indicator	Show last indicator value Add Horizontal Pointer
TRIX, Mov Avg (TRIX)	Scale With
Difference	Show

Both the TRIX Indicator and the TRIX Histogram share the same pane and scale. When the TRIX Histogram reverses while its value is below zero, the TRIX Indicator has turned toward its own Moving Average.

×↑ ‡ ‡	TRIX 12	Mov Avg 9, Simple	Difference-	TRIX 12 and
\geq				

REMEMBER

The TRIX Indicator is a percent rate of change of a triple exponentially smoothed moving average.

Histogram value

Movements toward its own Moving Average while below zero can be an important behavior. Creating a TRIX Histogram allows easy visual identification of TRIX movement toward its trigger line.

X + TRIX 12 Mov Avg 9, Simple	Option Difference- TRIX 12 and Mov
IIIIIn	

9. Compare Multiple MACD Histograms

GOAL

To visually compare the behavior of multiple MACD Histograms with varying parameters in the same pane.

CATEGORY

MACD Histogram, Overlaying Plots, Scaling, Color Opacity

METHOD

Add three individual MACD Histogram plots to a chart; adjust their settings including periods and color schemes; overlay the plots within one pane.

STEPS

Here is a step-by-step guide for this exercise.

Step 1 Click the Add Indicator icon. As a shortcut, press the (/) key on the keyboard.



Step 2 Type MACD
<i>Histogram</i> to limit
the list of available
indicators. Double-
click the MACD
Histogram
indicator to add
the indicator to the
active chart.

ma	cđ
Libr	ary Indicators
H th	MACD and Histogram
th, th	MACD Histogram of Indicato
tt tit	MACD Histogram
ht.	MACD of Indicator
the state	MACD

Step 3 Repeat steps 1 and 2 twice more. There should be a total of three MACD Histograms—each within its own pane—included in the active chart.

Step 4 Right-click the MACD Histogram legend label

of the first MACD Histogram to open the *Edit MACD Histogram* window.

MACD Histo	gram	<u>Simple 12 9</u> Edit N	imnle 26	Simple, 9
	44	Sort By		
		Create Condit	ion	
		Create Market	Indicator	-

Step 5 Within the *Main* tab, change the *Short Avg* to 40, the *Long Avg* to 80, and the *Trigger Avg* to 20.

Step 6 Within the *Colors* section, change the Color to Red (or other desired color), and change the *Opacity* percentile to 75%. Click *OK*.

Short Type	Simple	~
Short Avg		40 🗢
Long Type	Simple	~
Long Avg		80 😂
Trigger Type	Simple	*
Trigger Avg		20 🛟
Color	- 75 😂 %	
Paint Scher	me- none	~

Step 7 Repeat the process for the remaining two MACD Histograms using the following settings:

-MACD Histogram 2: change the Short Avg to 20, the Long Avg to 40, and the Trigger Avg to 10. Within the Colors section, change the Color to Yellow and the Opacity percentile to 75%. Click OK.

-**MACD Histogram 3:** change the Short Avg to 10, the Long Avg to 20, and the Trigger Avg to 5. Within the Colors section, change the Color to Cyan and the Opacity percentile to 75%. Click OK.

Step 8 Left-click and drag the third MACD Histogram indicator into the same pane as the top MACD Histogram. When the tooltip reading *Move*

or Overlay is visible, release the mouse button and choose Overlay. These two indicators should both now reside within the same pane.



Step 9 Do the same step with the remaining MACD so that all three are in the same pane.

Step 10 Right-click the second MACD Histogram and select *Scaling*; then select *Scale With*; then select MACD Histogram from the sub-menu.

Repeat for the third MACD Histogram. All of the MACD Histograms should share the same scale.

Z	Edit		Add Child Indicator
~	Arithmetic		Scaling
	Logarithmic		Bring To Front
~	Fixed % Log Exponential Show last indicator value	-	Copy Paste Email Indicator
	Add Horizontal Pointer		MACD Histogram
	Scale With		MACD Histogra
~	Show		MACD Histogra

RESULTS

Three unique MACD Histogram indicators share the same pane and can be visually analyzed and can be used as the basis of behavioral sorts.



REMEMBER

Adjust period, average type, color, and opacity settings to desired charting needs and trading style.

10. Price Down Ten Percent in a Month

GOAL

To isolate stocks which have moved down ten or more percent over the last 21 trading days.

CATEGORY

Price, Sort

METHOD

Create a Condition for down moves of -10% or worse and then sort by that Condition.

STEPS

Here is a step-by-step guide for this exercise. For an alternative method to the steps in this lesson, refer to the RealCode Reference 2nd Edition (pp. 63-68).

Step 1 Right-click on the *Price History* and choose *Create Condition* opening the *Add Condition* window.

	Edit	
U	Sort By	
/	Create Condition	
	Create Market Indicator	
	Create WatchList Column	•
	Add Child Indicator	

Step 2 Choose *Percent Change* from the menu.



Step 4 This places a single *Condition Bubble* on the bottom left of the Price Pane.



Step 5 Click on the *Condition Bubble* to sort the current WatchList by the new condition and paint the price bars whenever the condition is true.



Step 3 Choose *Less Than* from the drop-down menu, set the *Value* to -10 and the *Change Period* to 21. Click *OK*.

Perce	nt Change	
< (Le:	ss Than)	
Value	-10.0000	

Every stock in the WatchList that has moved down -10% or worse over the last 21 trading days is grouped to the top of the list with a *Sort Light* matching the color of the Condition created.



Sort

Grouped below those with lights will be the stocks in the WatchList with the most recent occurrences of the condition (ascending in value from 1 bar since true).

8	FCX	NYSE
	Freeport Mcmorar	n C&G B
9	GOOG	Nasdag
	Google	
10	AA	NYSE
	Alcoa Inc	
-		
11	CAT	NYSE
-	Caterpillar Inc 1 bar since	true
12	MSFT	Nasagag
	Microsoft Corp	

Paint bars

Finally, the price bars will be painted for the entire stock history every time the condition occurs.



REMEMBER

All the variables used to create the Condition can be changed.

Move Direction

Percent Change can look for stocks that moved up a certain percentage or better over the period. The *Value* setting can be changed to any number.

Move Time Frame

The Condition is based on the time frame of the chart. If changed from 21 Day to 5 Day, it looks for the change to occur based on a period of a week instead of month.

Percent Cl	hange	
> (Greate	r Than)	
Value 10.0	00	<u>^</u>

11. Falling P/E Ratio

GOAL

To identify stocks with earnings out performing price by finding stocks with a falling P/E ratio.

CATEGORY

Price, Sorting, Fundamentals, P/E Ratio

METHOD

If a stock's P/E ratio is moving down over a period of time it means the stock's earnings has out-performed its price over that period. Creating and sorting for a Condition for falling P/E lights up these stocks.

STEPS

Here is a step-by-step guide for this exercise. (Note: StockFinder Platinum is required for this exercise.)

•

Step 1 Change the time frame of the chart to *Weekly*.



Step 5 Choose *Very Fast* with the value slider and change the *Move Period* to 26 (in this case, it will be 26 weeks on the weekly chart).

P-E Ratio	
Moving Up	
Moving Down	
Percent Change Net Change	

Step 2 Add a *P/E Ratio* plot by typing */ratio* and clicking the *P-E Ratio* from the filtered list.

Step 3 Right-click the *P/E Ratio* and click *Create Condition* link. Change the color as desired.

Step 4 Choose *Moving Down* from the drop-down menu.



Move Period 15 😂 🚱

Slowly

-Quickly

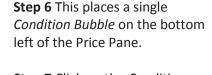
Moving Dowr

Type Shortcut and Hit Enter

Shortcut:

/ratio

P-E Ratio



Step 7 Click on the *Condition Bubble* to sort the current WatchList by the new condition and paint the price bars whenever the condition is true.





Any stocks in the WatchList passing the Condition will be grouped to the top with a *Sort Light* under it matching the Condition's color. Each of them has a *P/E Ratio* that is moving down over the last twenty-six (26) weeks. This means their earnings performed better than their price over the past twenty-six (26) weeks.



Sort

Grouped below those with lights will be the stocks in the WatchList with the most recent occurrences of the condition (ascending in value from 1 bar since true).

20	CVS Cvs Caremark Co	NYSE
21	AMGN Amgen Inc	Nasdaq
22	MA MasterCard Inc	NYSE
23	JPM JPMorgan Chase	
24	BK The Bank of New	NYSE

Paint bars

Finally, the price bars will be painted for the entire stock history every time the condition occurs.

Emc Cor	p		ΕM	IC
╞ ╞ ┝		4	1	
			-	
		1	- 45	

REMEMBER

Edit the Condition and set the *Move Period* to cover the desired number of weeks. Qualify the move down by moving the slider to a different value.

12. Filter Out Low Volume Stocks

GOAL

To filter out stocks in a WatchList that trade on average less than 200,000 shares each day.

CATEGORY

Volume, Filter, Moving Average

METHOD

Create a Condition based on a moving average of volume. The Condition requires that the value of the volume moving average is greater than 200,000 shares. After making the Condition, use it as a filter for any WatchList.

STEPS

Here is a step-by-step guide for this exercise. For an alternative method to the steps in this lesson, refer to the RealCode Reference 2nd Edition (pp. 63-68).

Step 1 Choose the desired WatchList to filter from the WatchList drop-down.

Step 2 Right-click on the moving average **of volume** and choose *Create Condition*

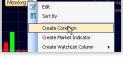
Step 3 Choose *Greater Than Value* from the drop-down menu.

Step 4 Set the *Greater Than Value* to 200,000.

Step 5 This places a single *Condition Bubble* on the bottom left of the Price Pane.



stand New Personal WatchList

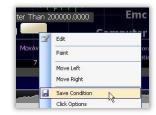


Volume	
Moving Up	
Moving Up	
Moving Dov	wn
Percent Ch	iange
Net Change	e
Greater Th	ian _N
Less Than	15
	92

Volume
Greater Than
> 20000.0000
Passing 1 to of last 1 to bar(s



Step 6 Right-click on the *Condition Bubble* and choose *Save*.



Step 7 Name the Condition *Minimum Volume*. Click *OK* to save it to the Condition Library.

Step 8 Click on the Filter dropdown menu and choose *Create New Filter*.



OK.

Cancel

Step 9 Name the Filter and click *Add Condition to Filter*

Step 10 Type '*Min*' to shorten the list and then choose the *Minimum Volume* condition from the drop-down list. Set the time frame to *Daily*. Click *Run Filter*.



My Condition	ns	
/ 🛓 Minimu	m Volume	
Contains mir	n ř	

The Filter for the WatchList requires every stock in the list to have an average volume at or above 200,000 shares. Only the stocks that meet this Filter Condition are shown in the WatchList.



REMEMBER

The number of days averaged is set by the period of the volume moving average used to create the Condition.

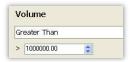
Change Average Value

Click on the average to change its period. If the period is set to 50 then the Condition requires that

the 50-bar average volume should be greater than 200,000.

nple 🔽
50 \$
0 🛟

The value of 200,000 can be changed. For stocks with an average volume over one million shares, set the value to 1,000,000 shares.



Change Average Time Frame

The volume moving average uses the time frame of the chart it's on. If it is a daily chart, it is the daily average volume. If it's a weekly chart it shows the average weekly volume. The Condition value should be set based on the time frame of the chart (and the average).



13. Identifying News Surges

GOAL

To isolate stocks which are being covered in the news with heavy and unusual interest.

CATEGORY

Sort, News

METHOD

Sort WatchList items by relative news volume using current values of the NewsBuzz Indicator.

Х

2

STEPS

Here is a step-by-step guide for this exercise. (Note: StockFinder Platinum is required for this exercise.)

Date

Step 1 Click the *Add Indicator* button. Alternatively, press the (/) key on the keyboard.



Main Chart [F1]

news

Library Indicators

News Count

NewsBuzz

Step 2 Type *NewsBuzz* to limit the list of available indicators. Double-click the *NewsBuzz* indicator to add the indicator to the active chart. This indicator

is added to the chart within its own pane.

Step 3 Right-click the *NewsBuzz* and choose *Create WatchList Column*. Choose *Data*.



Step 4 Click the *NewsBuzz* column header within the Main WatchList to sort items in the list in descending order. The stocks with the greatest relative news volumes are raised to the top of the list.

St	andard and Poo	rs 100	Compone	nt
Fil	ter- Minimum Volu	me		_
So	nt- NewsBuzz -Link	ed		
			NewsBuzz 🛺	
1	GILD Gilead Sciences Inc	Nasdaq	NewsBu	uzz -Link
2	QCOM Qualcomm Inc	Nasdaq	2.57	
3	USB US Bancorp	NYSE	2.38	
4	COF	NYSE	2.38	4

RESULTS

Stocks with the greatest volume of news articles (relative to their own news history) are raised to the top of the list. The *NewsBuzz* indicator is also plotted historically on the chart.



REMEMBER

View a list of all of the most recent news articles for any selected stock in the WatchList. Click the *Research* menu, select *Stock News*. A list of recent news articles for the active symbol is displayed below the main WatchList.



This page intentionally blank.

14. Increasing Buy Ratings

GOAL

To isolate stocks with an increase in their Zacks Analyst Buy Ratings.

CATEGORY

Analyst Rating, Sort

METHOD

Create a Condition for the *% BUY Ratings* indicator moving up over the last 21 trading days then sorting by the Condition.

STEPS

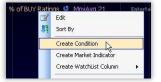
Here is a step-by-step guide for this exercise. (Note: StockFinder Platinum is required for this exercise.)

Step 1 While looking at a chart type /buy r and choose the *Percent BUY Ratings* indicator from the list adding the indicator to the chart.

Step 2 Right-click the *Percent BUY Ratings* indicator and choose *Create Condition*.

Step 3 Choose *Moving Up* from the drop-down menu.

Гу	pe Shortcut and Hi	it Enter
S	hortcut:	
1	/buy r	
	Percent BUY R	atings
	Powe r shares R	uw hack





Step 4 Change the *Move Period* (under the slider) to 21. Click *OK*.



Step 5 This places a single *Condition Bubble* on the bottom left of the Price Pane.

Step 6 Click on the *Condition Bubble* to sort the current WatchList by the new condition and paint the price bars whenever the condition is true.





Every stock in the WatchList grouped to the top with a *Sort Light* matching the color of the created CONDITION has their buy ratings moving up quickly over the last 21 bars (days on a 1 Day chart). The *Percent BUY Ratings* plot shows the percentage of analysts rating the stock a "BUY". The stocks found in this sort are experiencing an increase in the percentage of analysts that are rating it a "BUY" or a "STRONG BUY".

50	andard and Poors 10	• •
Fil	ter- Minimum Volume	*
Sc	nt- Percent BUY Ratings	s M 🗸
	Symbol Percent BUY Ratings Moving L	
-		
1	NSC NY Norfolk Southern Corp	SE 1
2	GE NY General Electric Co	SE
3	UTX NY United Technologies Corp	SE
4	JNJ NY Johnson & Johnson	SE
5	AMZN Nasd	aq

Sort

Grouped below those with lights will be the stocks in the WatchList with the most recent occurrences of the condition (ascending in value from 1 bar since true).

50	IBM International Busine	NYSE ss Mac
51	HPQ Hewlett-Packard Co	NYSE
52	CAT Caterpillar Inc 2 bars since th	NYSE
53	QCOM Qualcomm Inc	Nasgaq
54	MSFT Microsoft Corp	Nasdaq

Paint bars

Finally, the price bars will be painted for the entire stock history every time the condition occurs.



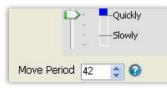
REMEMBER

There are many ways to use the Zacks Data.

Change Move Period

The *Move Period* sets over what time the indicator

has to move. This can be increased or decreased to find longer or shorter term increases in the *Percent BUY Ratings.*



Related Studies

Instead of looking for the ratings increasing, change *Moving Up* in the Condition to *Moving Down*. In the indicator library there are also indicators for the *Average Analyst Ratings* and the *Percent SELL Ratings*.



15. MACD Histogram Turning Positive

GOAL

To sort for stocks where the MACD Histogram indicator crosses from negative to positive value.

CATEGORY

MACD Histogram, Sorting

METHOD

The MACD Histogram indicator can be negative (below zero) or positive (above zero). Creating a Condition for the MACD Histogram crossing up through the value of zero allows sorting for stocks that were below zero but are above zero on the current bar.

STEPS

Here is a step-by-step guide for this exercise. For an alternative method to the steps in this lesson, refer to the RealCode Reference 2nd Edition (pp. 63-68).

Step 1 Add the MACD Histogram indicator by typing */macd h* and choosing *MACD Histogram* from the filtered list.

Step 2 Right-click the MACD Histogram indicator and choose *Create Condition*.

Step 3 Choose *Crossing Up Through Value* from the dropdown menu.

Type Shortcut and Hit Enter Shotcut	
- Tortout	
/macd h	
MACD Histogram	
MACD Histogram of Indicator	





Step 4 Set the *Crossing Up Value* to 0.00. Click *OK*.

Crossing U	o Through Value	
------------	-----------------	--

Step 5 This places a single *Condition Bubble* on the bottom left of the Price Pane.

Step 6 Click on the Condition Bubble to sort the current WatchList by the new condition and paint the price bars whenever the condition is true.





Each stock in the WatchList with a MACD histogram crossing up through the center zero line will be grouped to the top with a *Sort Light* in the Condition's color.



Sort

Grouped below those with lights will be the stocks in the WatchList with the most recent occurrences of the condition (ascending in value from 1 bar since true).



Paint bars

Finally, the price bars will be painted for the entire stock history every time the condition occurs.



REMEMBER

The criteria of the Conditions can be adjusted to fit other desired results.

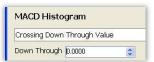
Change Settings

Edit the MACD Histogram to change the settings and the Condition and *Sort Lights* will automatically update to reflect the changes.

Short Type	Simple	
Short Avg		12
Long Type	Simple	
Long Avg		26
Trigger Type	Simple	•
Trigger Avg		9 3

Change Direction

Edit the Condition by right-clicking on the plot and choosing *Edit*. Change *Crossing Up Through*



Value to *Crossing Down Through Value* to sort for stocks crossing into negative values.

16. Making or Challenging Highs in Price

GOAL

To identify stocks making, at, or challenging their most recent new price highs.

CATEGORY

Price, Sorting

METHOD

By creating one Condition to find stocks challenging, making or breaking a previous high all the stocks meeting the Condition can be lit with *Sort Lights*.

STEPS

Here is a step-by-step guide for this exercise.

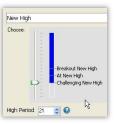
Step 1 Right-click the *Price History* and click *Create Condition* link.

2	Edit	
17	Sort By	
	Create Condition	
	Create Market Malicator	
	Create WatchList Column	

Step 2 Choose *New High* from the drop-down menu.

Step 3 Set the *High Period* to the desired previous high to challenge or break. Move the slider down to *Challenging New High*. Click *OK*.





Step 4 This places a single *Condition Bubble* on the bottom left of the Price Pane.



Step 5 Click on the *Condition Bubble* to sort the current WatchList by the new condition and paint the price bars whenever the condition is true.



Any stocks in the WatchList passing the Condition will be grouped to the top with a *Sort Light* under it matching the Condition's color.

St	andard and Poors 500 Com.		~
Fil	ter- none		*
Se	nt- Price History New High - Li.		~
	Symbol		
	Price History New High - Linked		H
1	ABC NYSE AmerisourceBergen Corp	8	10.00
2	EMR NYSE Emerson Electric Co		l
3	WFC NYSE Wells Fargo & Company		

Sort

Grouped below those with lights will be the stocks in the WatchList with the most recent occurrences of the condition (ascending in value from 1 bar since true).



Paint bars

Finally, the price bars will be painted for the entire stock history every time the condition occurs.



REMEMBER

Edit the Condition by right-clicking the Condition on the chart and choosing *Edit*. Change the period of the high or adjust the slider to only find stocks making or breaking the previous high.

17. Moving Averages Crossing

GOAL

To identify stocks with two moving averages (of price) crossing.

CATEGORY

Price, Moving Average, Lines Crossing

METHOD

When two moving averages of price are plotted, sorting for how they compare to each other lights up all the stocks where they are crossing.

STFPS

Here is a step-by-step guide for this exercise. For an alternative method to the steps in this lesson, refer to the RealCode Reference 2nd Edition (pp. 63-68).

Step 1 Add a moving average to the price pane by rightclicking the Price History plot and choosing Add Child Indicator.



Step 2 Type 'Mov' in the Type to Search box and select Moving Average from the filtered list.

Step 3 Right-click a moving average plot and choose Edit.

Step 4 Set the moving average to the period, type and color desired (e.g. 50 bars, exponential). Click OK. Repeat the

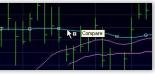
mov	
C	My Indicators Only Rea
	Name
4th	Moving Average
4 ttt	Moving Average of OHLC
. Ith	Moving Average of Typical Price



Exponential	1	~
	50	4.2
	0	4 2
		50

process for the second Moving Average.

Step 5 Left-click and drag the shorter period moving average on the price chart to the longer period moving average (the word Compare



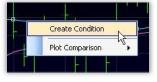
and an image of the indicator will appear).

Step 6 Release the mouse button and choose Create Condition on the drop-down menu.

Step 7 Choose Crossing Up Through MovAvgXX where XX is the longer-period moving average. In the Edit box, set the Condition's color. Click OK.

Step 8 This places a single Condition Bubble on the bottom left of the Price Pane.

Step 9 Click on the Condition Bubble to sort the current WatchList by the new condition and



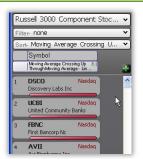






paint the price bars whenever the condition is true.

Any stocks in the WatchList that have the shorter moving average crossing up through the longer moving average have a light under their ticker and are grouped to the top of the WatchList.



Sort

Grouped below those with lights will be the stocks in the WatchList with the most recent occurrences of the condition (ascending in value from 1 bar since true).



Paint bars

Finally, the price bars will be painted for the entire stock history every time the condition occurs.



REMEMBER

To find the short- crossing down through the long-term moving average, use *Crossing Down Through* instead of *Crossing Up Through*.

Crossin	g Down	Through MovA	/g 50 🔹
Choose:			N

Price Crossing an Average

To find price crossing a Moving Average, instead of dragging one moving average to the other, left-click and drag the Price plot to the Moving Average plot, choose *Create Condition* and follow the steps above from there.

18. Oversold Stochastics

GOAL

To identify stocks with a Stochastics value below twenty.

CATEGORY

Stochastics, Sorting, Oversold, True in a Row

METHOD

Sort the WatchList by how many bars in a row a stock has registered a Stochastics value below twenty.

STEPS

Here is a step-by-step guide for this exercise.

Step 1 Add *Stochastics* to the chart by typing */Stoch* and selecting it from the filtered list.

Step 2 Right-click the white Stochastics plot. And choose *Create Condition* from the drop-down menu.

Step 3 Choose *Less Than Value* from the drop-down menu.

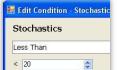
Step 4 Set the *Less than Value* to *20*. Click *OK*.

/stoch	
Stoch astics	
Stoch Move 1V	Vk



Create Market Indicator

Create WatchList Column Add Child Indicator



Step 5 This places a single *Condition Bubble* on the bottom left of the Price Pane.

Step 6 Left-click and drag the Condition to the main WatchList (*Add as Column* appears).

Step 7 Release the mouse button and choose *Condition Column* from the menu that appears.

Step 8 Click on the *Condition Column* header in the WatchList to sort the list.



NYSE	Add as Column
Nasdaq ar Co	Stochastics Less Than 20
Nasdaq rp Nacdag	H abc -





Any stocks in the WatchList are sorted by those most recently experiencing a Stochastics value below twenty.

Also involved in the sort are how many bars in a row the stock has been experiencing a Stochastics value below twenty.

Finally, stocks which have most recently experienced moving out of that condition appear.

1090	VSAI Viasat Inc	релсем
1091	SPWRA SunPower Corp	Nasdaq
1092	POWI Power Integrations I	Nasdaq Inc
1140	OVBC Ohio Valley Banc Co	Nasdaq rp



REMEMBER

Other ways to use Stochastics plot are available.

Change Settings

Edit the Stochastics plot to change any of the settings and the Condition will be automatically updated.

Period		12 😂
%K		3 🗘
Avg Type	Simple	~

Above Overbought Line

Edit the created Condition on the chart (right-click on it and choose *Edit*) and choose *Greater Than* and set the value to 80 (to find



stocks showing an Overbought Stochastics value on the most recent bar). Click *OK*.

19. Paint Down Sloping Price

GOAL

To paint the Price plot green when sloping up and red when sloping down.

CATEGORY

Price, Paint Price, Linear Regression Slope

METHOD

By default price is already painted green. By creating a Condition based on a *Linear Regression Slope* indicator registering values below zero, price can then be colored by that Condition.

STEPS

Here is a step-by-step guide for this exercise.

Step 1 Press the (/) key on the keyboard to open the Quick Search box. Type "*slope*" to filter the list.

Click Linear Regression Slope (**not** of indicator) on the list to add the indicator to the chart.



Step 2 Right-click the *Linear Regression Slope* indicator and click *Edit* which opens the *Edit Linear Regression Slope* window.

Step 3 Set the period to measure the slope in the *Period* setting on the right to 21. Click *OK*.

Step 4 Right-click the *Linear Regression Slope* plot and choose *Create Condition.*





Regression Sic Edit Sort By Create Cond <u>2n</u> Create Market Indicator **Step 5** Choose *Less Than Value* from the drop-down menu.

Step 6 Change *Less Than Value* to 0 (zero) and change the color to red using the color selector. Click *OK*.

Step 7 This places a single *Condition Bubble* on the bottom left of the Price Pane.

Step 8 Right-click on the *Condition Bubble* and choose *Paint*



Net Change	
Greater Than	
Less Than	
New High	A.
Now Low	0

Li	inear Regression Slope
Le	ess Than
<	0



inear Regression :	⊧ Slope Less Than 0
	Edit
🗣 🕂 Linear Regr	Paint De
	Scan
	Scan and Paint

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RESULTS

When price has a negative slope over the period of the *Linear Regression Slope* Indicator it will pass the created Condition and color the bars red. All other bars are painted the native green color (the slope is zero or higher).

REMEMBER

The period setting for the Linear Regression Slope indicator can be adjusted. If increased the period that the slope measures is increased and the color is automatically adjusted.

Save Color Scheme

Saving the color scheme is simple.

First, right-click on the *Condition Bubble* and choose *Save Condition*. Name it (Sloping Green-Red). Click Save.

Click the Paint Scheme icon and choose New Paint Scheme.

Type in 'Sloping' and then click on the condition. That paint scheme is now applied to the current chart.







20. Paint Price by the Close in the Range

GOAL

To paint price bars yellow if they close in the top half of the trading range and red if they close in the bottom half of the trading range.

CATEGORY

Price, Paint Price, RealCode

METHOD

If the distance from the high of the bar to the close of the bar is less than the distance from the close of the bar to the low of the bar, the stock closed in the top half of its trading range. Creating a simple *RealCode* Paint Brush will paint stocks based on where they close in the range.

STEPS

Here is a step-by-step guide for this exercise.

Step 1 Right-click on the *Price History* plot and choose *Edit*.

Price Histo	Edit
11	Sort By
	Create Condition
	Courses Mandack Taskinskin

Step 2 In the *Colors* section of the *Edit* window, click on the color drop-down.

Step 3 Choose the *New Paint Scheme* option.

Col	и 📘 •	100 😂	%		
E	int Scher	ne- My Pa	int Scherr	ne N	✓ Edit



Step 4 Name the new paint scheme *Close in Range* and put a check in the tick box next to *Apply RealCode*. Click *OK*.

dit Paint Scheme	×
Name Close in Range	
Base Color	
Add Condition	
Apply RealCode Edit	
Save Paint Scheme As	эк 🗍

Step 5 In the *RealCode* window that opens replace the **'PlotColor = Color.Gray'** code with the following code (then click *Apply* and *OK*).

🛃 RealCode 🏾	Editor : Price Hist	огу				
🛃 🛛 Import Ind	dicator 🧕 Passwo	ord	_	0 H	lelp 📝 Auto-(Compile
2 PlotC 3 Else	e.High - Price olor = Color.Y olor = Color.H	/ellow	(Price.	Close - 1	Price.Low)	Then A
COUE CIGSS		∞	··· 🔻			
<						>
			Ok	Car	icel 📄 🦳	Apply

Every price bar will color either yellow or red. If it colors yellow it means the close is closer to the high than the low otherwise it colors red.

REMEMBER

Edit the Price History plot, go to its Color tab and edit the Paint Brush at any time. Change the colors in the code by changing yellow to green or red to blue (or anything else).

21. Price Between \$10 and \$50

GOAL

To filter any WatchList down to just the stocks priced between \$10 and \$50 per share.

CATEGORY

Price, Filter

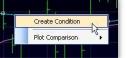
METHOD

Create two Conditions based on the *Price History* plot—one Condition for price greater than the value 10 and one for the price less than the value 50. Combine the Conditions and use them in a filter.

STEPS

Here is a step-by-step guide for this exercise. For an alternative method to the steps in this lesson, refer to the RealCode Reference 2nd Edition (pp. 63-68).

Step 1 Right-click on the *Price History* plot and choose *Create Condition*.



Step 2 Choose *Greater Than Value* from the drop-down menu.

Moving Up	
Percent Change	
Net Change	
Greater Than	
Less Than	10
New High	
New Low	
Crossing Up Thro	ugh Value
Crossing Down Th	nrough Valu

🖶 Edit Condition - Price History

Price History

Greater Than

> 10

Step 3 Set the *Greater Than Value* to 10. Click *OK*.

Step 4 Right-click on the *Price History* plot and choose Create Condition. Choose *Less Than Value* from the drop-down menu.

Step 5 Set the *Less Than Value* to 50. Click *OK*.

Price History	
Moving Up	
Net Change	
Greater Than	
Less Than	
New High	12
New Low	. 0

🛃 Edit Condition - Price Histor

۵

Price History

< 50.0000

\$

Step 9 Right-click on the *Condition Bubble* and choose *Save*.

Step 6 This places two

Condition Bubbles at the lower left of the Price Pane.

Step 7 Drag one *Condition Bubble* to the other and

choose Create Combination

Step 8 This leaves one Condition

Bubble at the lower left of the

Condition.

Price Pane.

Step 10 Name the Condition *Price Range*. Click *OK* to save it to the Condition Library.









lame	Price Range
dd Ci	Indition
Dei	e History Croster Than 10
- 200	e History Greater Than 10
- 200	ce History Greater Than 10 d ❤

42

Step 11 Click on the Filter drop-down menu and choose *Create New Filter*.

Step 12 Name the Filter and click *Add Condition to Filter*.

Type to	search		
Tasks –			
Crea	te New I	Filter	
My Filter	s —	rw	
<u> </u>	hove MA	diff time fi	rames

and the second second second second	
Name: Price Ra	ange

Step 13 Type '*Price R*' to shorten the list and then choose the *Price Range* condition from the dropdown list. Set the time frame to *Daily*. Click *Run Filter*



RESULTS

Any WatchList chosen with the WatchList selector will now show only the stocks in the WatchList that trade between \$10 and \$50 per share.

		-	_ ×
Sta	andard and Poors	s 100 Co	*
Filt	er- Price Range		*
So	t- none		*
Ŷ;	Symbol		÷
1	AA Alcoa Inc	NYSE	
2	AEP American Electric Pow	NYSE	

REMEMBER

The \$10 and \$50 numbers can be set to any value. Also, two Conditions are not required. To filter for only stocks above a value or below a value, use just one Condition.

Clear Filter

The Conditions used in the filter can be turned off by clicking the down arrow to the right of the Filter and choosing *Clear Filter*.

Type to :	earch	
Tasks —		
Creat	e New Filt	er
Edit I	-ilter	
Clear	Filter	

22. Price Moving Up Several Days in a Row

GOAL

To identify stocks which have moved up in price several bars consecutively.

CATEGORY

Price, Sorting, True in a Row, Paint Price

METHOD

By creating and sorting one Condition for a stock moving up over a period of days, stocks with consistent price movement can be easily identified.

STEPS

Here is a step-by-step guide for this exercise.

Step 1 Right-click the *Price History* and choose *Create Condition* from the drop-down menu.

Step 2 Choose *Moving Up* as the condition in the drop-down.

Step 3 Move the slider to the bottom (below *Slowly*) to catch all up values for the condition and set the *Move Period* to 1. Click *OK*.

Step 4 This leaves a single *Condition Bubble* on the price pane.







Step 5 Right-click the *Condition Bubble* and choose Create WatchList Column.

Step 6 Choose *True in a Row* from the drop-down menu.

Step 7 This places a column in the WatchList. Click on the header of the new column to sort in descending order (with the highest values at the top of the list).



-	Edit True Markers	
	Create Market Indicator	
1	Create WatchList Column	Scan Column
	Add to Paint Scheme	Last Date True
	Move Left	% True in Period
	Move Right	Bars Since True
- 0	Save Condition	# True in a Row





When finished a new column will be to the right of all the symbols in the WatchList sorting the WatchList by the number of bars in a row the stock moved up. The value in the column represents the number of bars in a row it moved up.

3	JACK Nasdaq Jack In The Box I	7 0
4	DW NYSE Drew Industries I	7 0
5	UIS NYSE Unisys Corp	50
6	TUES Nasdaq Tuesday Morning	50
7	ACCL Nasdaq Accelrys Inc	50
8	MSL Amex Midsouth Bancorp	50

REMEMBER

Edit the Condition to qualify the move by changing the slider to Slowly or Quickly.



Percent True in Row

Create another sort column with the exact same steps except choose % *True in Period* as the column condition. Sort the column in descending order and the stocks at the top of the list will have the

greatest percentage of up moves over the last fifty bars.

Create Market Indicator	
Create WatchList Column 🔋 🕨 🕨	Scan Column
Add to Paint Scheme	Last Date True
Move Left	% True in Period

Paint When True

Right-click on the *Condition Bubble* and choose Paint from the drop-down menu.

This will paint the price bars whenever they meet the Condition.





23. Price Pulling Back after an Uptrend

GOAL

To identify stocks whose price moved up then pulled back.

CATEGORY

Price, Sorting, Sequence Condition

METHOD

Sequence Conditions find stocks meeting multiple Conditions (in order) over a period of time. Create a Condition for price moving up then for price moving down, combine them into a Sequence Condition and sort for stocks passing the Conditions in sequence.

STEPS

Here is a step-by-step guide for this exercise.

Step 1 Right-click the *Price History* and choose *Create Condition* from the drop-down menu.

Step 2 Choose *Moving Up* as the condition in the drop

the condition in the dropdown.

Step 3 Set the number of bars desired for the uptrend. (For example setting it to 10 looks for a ten-bar uptrend in price.) Click *OK*.

Step 4 Repeat step 1, then Choose *Moving Down* as the condition in the drop-down.

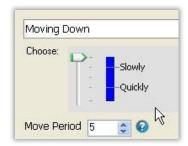








Step 5 Set the *Move Period* to a value less than that set for the *Move Period* on the *Moving Up* Condition. (If the *Moving Up* Move Period to 10, set this Move Period to 5.)



Step 6 This will leave two *Condition Bubbles* on the price pane of the chart.

Step 7 Left-click and drag the *Moving Up* Condition to the *Moving Down* condition.

Step 8 Release the mouse button and choose *Create New Sequence* from the drop-down menu.



🕹 🕂 Volume 🛛 MovAvg 30



Step 9 Name the sequence *Pulling Back* and Set the *Span in Bars* to a number one greater than the period of the *Moving Down* Condition. (If the *Move Period* of the *Moving Down* Condition to 5, set the Span in Bars to 6.) Click *OK*.

Name	Pulling Back	
Add Co	ndition	
Span	in Bars 🛛 😂	\square
Pri	te History Moving Up	
-	e History Moving Down	

Step 10 This will leave one *Condition Bubble* on the price pane. Click the *Condition Bubble* to sort

the current WatchList by the new condition and paint the price bars whenever the condition is true.



RESULTS

Any stocks in the WatchList passing the Condition will be grouped to the top with a *Sort Light* under it matching the Condition's color. Each of them will have an uptrend followed by a pullback.

Fil	ter- none	
Se	rt- Pulling Back 6 -	Linked
	Symbol	
	Pulling Back 6 - Linked	41
1	COST Costco Wholesale Co	Nasdaq orp
2	HD Home Depot Inc	NYSE
3	Sprint Nextel Corp	NYSE
4	F Ford Motor Co	NYSE
5	WMT	NYSE

Sort

Grouped below those with lights will be the stocks in the WatchList with the most recent occurrences of the condition (ascending in value from 1 bar since true).

28	WAG Walgreen Co	NYSE
29	USB	NYSE
	US Bancorp	
30	WMB	NYSE
	Williams Companies Inc 1 bar since true	
31	BNI	NYSE
	Burlington Nth Santa F	e
32	BK The Bank of New York	NYSE

Paint bars

Finally, the price bars will be painted for the entire stock history every time the condition occurs.



REMEMBER

Edit the *Sequence Condition* or the *Moving Up* or *Down Conditions* by right-clicking the Condition on the chart and choosing *Edit*. Change the period of the moving up/moving down conditions or the *Span in Bars*. (The Span in Bars should always be at least one more than the Move Period of the *Moving Down* Condition.)

24. Ranking by Average Trading Range

GOAL

To rank a WatchList of stocks by the average trading range of each stock over the past fifty trading days.

CATEGORY

Price, RealCode, Sorting, Moving Average

METHOD

Create a *RealCode* indicator for trading range, apply a moving average to the indicator and then sort a WatchList by the value of that average.

OK

Cancel

STEPS

Here is a step-by-step guide for this exercise.

Step 1 Click the Add Indicator icon and select New RealCode Indicator from the menu.



RealCode[™] Indicator

Step 2 Name the indicator *Trading Range.* Click *OK*.

Step 3 Enter the following code on line 5 in the *RealCode Editor*: plot=price.TradeRange Click *OK*.

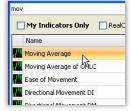
Step 4 Right-click the *Trading Range* indicator and choose *Add Child Indicator* from the dropdown menu.

Step 5 Type 'mov' in the Type to search field and choose Moving Average from the list. Click OK.

🛃 🌌 In	port Indicator	🔒 Pass 🕜	Help 🔽 A	uto-Compile
3 *** C 4 *** I 5 **** I 6	tockFinder F opy and past ndicator:Tra ************************************	e this h ding Ran	eader and ge	l code int
/ proc-pr		ige		~
Code Class	- me 			>

Trading Range





Step 6 Right-click *MovAvg 30* and choose *Edit* from the drop-down menu.



Average Type Simple

MovAvg Period

Offset

Step 7 Change the *MovAvg Period* on the right from 30 to 50.

Step 8 Right-click *MovAvg* 30 and choose *Create WatchList Column* from the drop-down menu. Choose *Data*.

Create Condition Create Market Indicator	
Create WatchList Column	Data
Add Child Indicator	Net Change
Scaling +	Percent Change Mini Chart

Step 9 Click the *MovAvg50* column header to sort the WatchList by each symbol's 50-bar average trading range.

Step 10 If the new WatchList column is not visible to the right of each symbol, expand the WatchList window.

Symbol	A	bving 🥼 verage
GOOG Google	Nasdaq	9.95



48 StockFinder 5 Workbook

Block Diagram

RESULTS

The WatchList is now ranked by the value of the moving average on the *RealCode* indicator Trading Range. The stocks with the highest average trading range appear at the top of the list.

REMEMBER

Knowing the stock's average trading range can be helpful for short-term trading, swing trading or option plays.

Change Settings

Changing the period of the moving average on the *Trading Range* indicator changes the number of bars averaged for the sort column.

Changing the time frame of the chart changes the time frame for the indicator and the WatchList column. If the chart is set to *1 Day* then the column shows the average daily trading range. If the chart is set to *1 Week* then the column shows the average weekly trading range.

(Keep in mind that the stock's price per share greatly influences how large the daily or weekly trading range is.)

🖌 Edit

Un-Link

Update Fre

Properties

Sort Frequency

Delete Column

9.9

5.4

4.9

4.08

Unlinking From Chart

Right-click on the column header to *Unlink From Chart* (disconnect) the column from the chart. The Indicator can now be removed from the chart without removing the column from the WatchList.

Right-click on the
unlinked column header
and choose Edit to change
the parameters on which
the column is based.
unlinked column header and choose <i>Edit</i> to change the parameters on which

lame Movin	ng Average -50 -Daily
Data	
MovAvg Period	50 🛟
	Simple
Average Type	ompie
Average Type Offset	0

OK







25. Price Staying Above a Moving Average

GOAL

To isolate stocks with price above or below their moving average several days, weeks or months in a row.

CATEGORY

Moving Average, Sorting, True in a Row, Price

METHOD

Create a Condition for price above the moving average then sort by the number of bars in a row a stock passed the Condition.

STEPS

Here is a step-by-step guide for this exercise. For an alternative method to the steps in this lesson, refer to the RealCode Reference 2nd Edition (pp. 63-68).

Step 1 Type /ma on the chart and press the Enter key.

Shortcut:	
/ma	
ma	Load Indicator:Moving Av

Step 2 Choose Price History from the Add Moving Average to window. Click OK.

Step 3 Right-click the newly added Movin and choose E drop-down n



Sort By

Create Condition

-click the newly	
ng Average plot	MovAvg 30
<i>Edit</i> from the	
nenu.	

Step 4 Set the MovAvg Period to the desired period

for the moving average. Choose the *Average Type* (Simple, Exponential or Front Weighted). Click OK.

Average Type	Simple	~
MovAvg Period		30 🛟
Offset		0 👌

Step 5 Left-click and drag the Price History plot to the Moving Average plot (the word Compare and an image of the indicator will appear).



Step 6 Release the mouse button and choose Create Condition from the dropdown.

Step 7 Choose Above MovAvqX (where X is the period of the moving average). Click OK.

Step 8 This places a single *Condition Bubble* on the price pane of the chart.

Step 9 Right-click the Condition Bubble and choose Create WatchList Column. Choose #True in a Row.







Edit True Markers	
Create Market Indicator	
Create WatchList Column	Scan Column
Add to Paint Scheme	Last Date True
Move Left	% True in Period
Move Right	Bars Since True
Save Condition	# True in a Row

Step 10 Click the *Above MovAvg50* column header to sort the WatchList.



Step 11 If the new WatchList column is not visible to the right of each symbol, expand the WatchList window.



RESULTS

Each stock in the WatchList is now ranked by the number of bars in a row each stock spent above its moving average. The larger the number, the more bars in a row price has spent above the average. The stocks at the top of the sorted WatchList have spent the most days in a row above their average.

Fil	ter- none		
Se	ort- Price Hi	story Abov	e Moving
	Symbol		ice 사
1	BNI Burlington f	NYSE Nth Sant	31 o
2	RF Regions Fin	NYSE nancial C	25 0
3	GILD Gilead Scier	Nasdaq nces Inc	21 0
4	AMGN Amgen Inc	Nasdaq	10 0
5	SLE Sara Lee Co	NYSE	60

REMEMBER

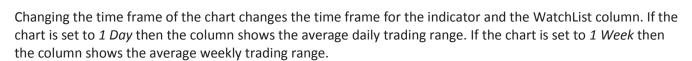
There are other ways to utilize this process.

Below Moving Average

Create a second Condition using the same steps above but instead of using *Above MovAvgX* use *Below MovAvgX*. Create a sort column for that Condition to rank stocks based on how many bars in a row they've spent below their average.

Change Settings

Changing the period of the moving average on the *Above MA* indicator changes the number of bars averaged for the sort column.



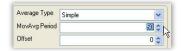
Unlinking From Chart

Right-click on the column header to *Unlink From Chart* (disconnect) the column from the chart. The Indicator can now be removed from the chart without removing the column from the WatchList.



Right-click on the unlinked column header and choose *Edit* to change the parameters on which the column is based.

Below M	lovAvg 3	0	
Choose:	D	-Below ¹ A Little Below -Clearly Below]



MowAvg Period			50 💲
Average Type	Simple		Y
Offset			0 🗘
TimeFrame	Daily		
Show		Last Value	123 •

26. Stocks with Above Average Volume

GOAL

To find stocks which currently are experiencing an unusually high volume of trading.

CATEGORY

Sorting, Paint Price, Unusual Activity, Volume, Moving Average

METHOD

By default, a new Layout contains Volume Bars on the *Main Chart*. In addition, the Volume plot has a 30-bar Moving Average on it. (Add volume bars to any chart by using the shortcut—type /volume bars.) If a particular volume bar has a higher value than its moving average (the bar is above the average line in the volume pane) that bar's volume is above average.

STEPS

Here is a step-by-step guide for this exercise. For an alternative method to the steps in this lesson, refer to the RealCode Reference 2nd Edition (pp. 63-68).

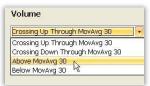
Step 1 Left-click and drag the *Volume Bars* plot to the Moving Average plot in the Volume pane (the word *Compare* and an image of the indicator will appear).

Step 2 Release the mouse button and choose *Create Condition* from the dropdown menu.

Step 3 Choose *Above MovAvg 30* (if the average has a different period than 30 it will show that value instead) from the dropdown menu.







Step 4 Move the slider to *Clearly Above*. Click *OK*.

Step 5 This will leave one *Condition Bubble* on the price pane.

Step 6 Click the *Condition Bubble* to sort the current WatchList by the new condition and paint the price bars whenever the condition is true.







Any stocks in the WatchList with average volume clearly above its norm on the current bar should have a light under them and are grouped together at the top of the WatchList.



Sort

Grouped below those with lights will be the stocks in the WatchList with the most recent occurrences of the condition (ascending in value from 1 bar since true).



Paint bars

Finally, the price bars will be painted for the entire stock history every time the condition occurs.



REMEMBER

Change the time frame of the chart and all the averages, sort lights, price painting, etc., will adjust. Change the period or average type of the volume moving average and all the elements will adjust as well.

27. Tightening Bollinger Bands

GOAL

To find stocks with contracted volatility resulting in a Bollinger Band squeeze.

CATEGORY

Sort, Paint Price, Volatility, Bollinger Bands

METHOD

Create a Condition for the *Bollinger Bandwidth* indicator making a new 125-day low then sort by that Condition.

Load Indicator:Bolli

STEPS

Here is a step-by-step guide for this exercise.

Step 1 Press the (/) key and type "bb" then press enter.

Step 2 In the *Add Bollinger Bands to* dialog box, double click on *Price History* to add the bands.

Step 3 Press the (/) key and type "*Boll*" and double click on the *Bollinger Bandwidth* indicator.

Step 4 Right-click on the *Bollinger Bandwidth* indicator and choose *Create Condition* from the drop-down menu.



Type Shortcut and Hit Enter

Shortcut:

/bb

bb

RR &T



Sort By

Create Condition Create Market Indicator

Create WatchList Column

ollinger Bandwidth Perio

drop-down menu.

Step 5 Choose New Low from the



Step 6 Set the *Period* to 125 (on a daily chart). Click *OK*.

Step 7 This places a single *Condition Bubble* in the price pane on the chart.

Step 8 Click on the Condition Bubble to sort the current WatchList by the new condition and paint the price bars whenever the condition is true.







Any stocks in the WatchList with a *Bollinger Bandwidth* making a new six month (125bar) low on the current bar has a *Sort Light* under them. All of these stocks are grouped together at the top of the WatchList.



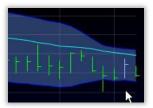
Sort

Grouped below those with lights will be the stocks in the WatchList with the most recent occurrences of the condition (ascending in value from 1 bar since true).



Paint bars

Finally, the price bars will be painted for the entire stock history every time the condition occurs.



REMEMBER

Change the time frame of the chart and all the price bars, Bollinger Bands and Bollinger Bandwidth indicator will adjust to the new time frame.

Change the default settings on the *Bollinger Bandwidth* indicator and the WatchList will automatically be sorted and price bars painted again with the new parameters.

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