


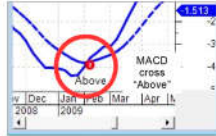
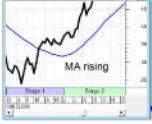
Ranking stocks using bullish chart indicators (updated)




Ranking stocks using bullish chart indicator features

Robert Brain
January 2018

Price charts summarise the underlying opinions and emotions of the market participants. Every chart tells a story. It pays to understand the stories in the price charts.



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Introduction


About this presentation

Wouldn't it be good if we could take a **list of stocks***, and sort the list with strongest performing stocks (ie. most bullish) at top of the list?


And then invest in these stocks in anticipation of the best price performance?

BUT HOW??

* – ie. your "stocks universe"



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Introduction


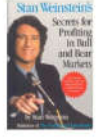
Use bullish T.A. indicator observations

We could use observations of technical analysis (T.A.) chart indicators such as:

- "Moving Average (MA) rising for consecutive bars", especially if it is below the share price.

We might use a 30 week SMA on weekly chart (à la Stan Weinstein).

This observation is said to be bullish, and can be readily scanned for using charting or trading software.



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Ranking stocks using bullish chart indicators (updated)

Introduction

Use bullish T.A. indicator observations


We could use observations of technical analysis chart indicators such as:

- "Moving Average (MA) rising for consecutive bars, especially if it is below the share price"

What other observations?

- MACD crosses "above" when below its own zero line?

Any others?



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Introduction

Use bullish T.A. indicator observations

We might use bullish observations of technical analysis chart indicators such as:

- Moving Average (MA) rising for consecutive bars, especially if it is below the share price.
- MACD crosses "above" when below its own zero line.
- (and many more?)

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Introduction

About this presentation

Wouldn't it be good if we could take a list of stocks, and **study bullish features of chart indicators to allocate a ranking or score,** then sort the list with strongest performing stocks (ie. most bullish) at top of the list? (and the most bearish at the bottom)

Let's consider how to do this...

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Ranking stocks using bullish chart indicators (updated)

Robert's Personal Watch List table

| (A) Code | (B) Stock name | (C) Score vs | (D) ROA % | (E) Close Price | (F) Stop #1 (1.5x) | (G) Stop #2 (2.5x) | (H) Wks On | (J1) Price % Change | (J2) Price % pa | (K) % ch 1 wk |
|---|------------------------------|--|-----------|-----------------|--------------------|--------------------|------------|---------------------|-----------------|---------------|
| All stocks on the list this week: (new stocks + carry-over) | | 8 NEW stocks + 113 CARRY-OVER this week = 121 total (13 + 107 last week, 12 + 100 previous week) (7 gone off the list this week, 5 last week, 4 previous week) | | | | | | | | |
| MMS | McMillan Shakespeare | 80 | 34 | | | | | | | 3.0 |
| REA | REA Group Ltd | 78 | 0 | 77 | | | | | | 1.2 |
| ALU | Alumina Limited | 76 | 73 | 12 | | | | | | -0.5 |
| CGC | Costa Group Holdings Ltd | 76 | 52 | 6 | | | | | | -3.1 |
| IAG | Insurance Australia Group | 76 | 0 | 7 | | | | | | 2.1 |
| ORE | Orocobre Limited | 76 | 84 | 5 | | | | | | -3.0 |
| AST | Ausnet Services Limited | 74 | 0 | 1 | | | | | | 0.8 |
| COH | Cochlear Limited | 74 | 32 | 181 | | | | | | 1.1 |
| DLX | Duluxgroup Limited | 74 | 0 | 8.01 | 7.49 | 7.25 | 8 | 14.4% | 94 | 7.5 |
| NHF | Nib Holdings Limited | 74 | 34 | 6.88 | 8.28 | 8.01 | 5 | 11.1% | 116 | 1.0 |
| NST | Northern Star Resources | 74 | 30 | 5.78 | 5.24 | 5.00 | 14 | 18.0% | 67 | 4.9 |
| NWS | News Corporation | 74 | 0 | 20.89 | 19.52 | 18.91 | 5 | 17.1% | 178 | 6.0 |
| SDA | Speedcast International | 74 | 35 | 4.84 | 4.27 | 4.02 | 6 | 13.6% | 118 | 1.9 |
| BRG | Breville Group Limited | 72 | 32 | 12.73 | 11.85 | 11.45 | 12 | 17.2% | 75 | 1.0 |
| STO | Santos Limited | 72 | 80 | 5.01 | 4.47 | 4.23 | 11 | 30.1% | 142 | 11.6 |
| BRL | Blackmore Limited | 70 | 109 | 162.13 | 143.41 | 134.86 | 10 | 41.1% | 214 | -0.6 |
| IPL | Inotec Pivot Limited | 70 | 0 | 3.98 | 3.67 | 3.54 | 9 | 9.1% | 53 | 4.8 |
| NXT | Nexdc Limited | 70 | 32 | 5.45 | 5.01 | 4.81 | 10 | 17.2% | 89 | 2.3 |
| PTM | Platinum Asset Management | 70 | 92 | 7.51 | 6.82 | 6.52 | 18 | 45.0% | 130 | 0.1 |
| SGR | The Star Entertainment Group | 70 | 0 | 5.64 | 5.24 | 5.24 | 4 | -0.4% | -5 | -2.6 |

The resulting list might look like this one.

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Introduction

Questions?

- Please ask questions.
- Let's discuss details.
- Any price charts prepared with BullCharts software.



*Every chart tells a story.
It pays to understand the stories in the charts.*

 www.bullcharts.com.au

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Introduction

About... Robert Brain

Nimble Short term Investor
consultant, educator and part-time* share trader
web-based sharemarket-support business


- Many years experience as trainer, presenter, conference facilitator (Scouts)
- Share Market – active 15+++ years* (slowly at first)
- Chartist i.e. technical analyst (ATAA member and national director)
- Provide support and tuition to traders and investors **Brainy's Share Market Toolbox**
- Member Mensa
- Engineering Degree (structured thinking with an eye for charts and diagrams)
- 30+ years – professional experience (IT and management)
- **No AFS license!** (Can't give advice)
- **BullCharts software** (convenor Australian BullCharts User Group and authorised reseller with special pricing)

* - Not yet enough capital to live off the proceeds of trading (after trading as a hobby until a career change in 2008).


Conflict of interest?



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Ranking stocks using bullish chart indicators (updated)

 **Introduction**

Important Notice — No Advice!

- This presentation does not include any advice.
- For proper advice, your personal financial situation needs to be considered.
- This presentation is pure education, only for your general awareness. 
- There are no recommendations to take any action, or to invest any money in any way.
- Always consult a properly licensed advisor before making investment decisions.

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 **Introduction**

Important Notice




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Ranking stocks using bullish chart indicators (updated)

 Introduction

NOTE...


In this presentation we focus on a ***trend-following*** approach, so the indicator observations are relevant to that approach.


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 Introduction

Today's Agenda

1. Identify some technical analysis indicators;
2. Identify bullish observations of the chart indicators — and prepare a list;
3. Consider how to quantify these bullish observations to produce a ranking or score;
4. Consider how to automate this;
5. In a group presentation — encourage discussion and sharing of knowledge.


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 T/A indicator observations

Study these bullish features...

We might use BULLISH observations of technical analysis chart indicators such as:

- (a) **Moving Average (MA)** rising for consecutive bars, especially if it is below the share price
- (b) **MACD** crosses "above" when below its own zero line
- (c) **Momentum** indicator is trending higher (ie. higher peaks and troughs) (see details on next slides...)
- (d) **Moving Average of Momentum** is above the Momentum and rising
- (e) **ActVest Range+** — indicator cord is rising
- (f) **Hull ROAR** is rising
- (g) **Volume** is above a Moving Average of Volume.

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Ranking stocks using bullish chart indicators (updated)

T/A indicator observations

(a) Moving Average rising...

Moving Average (MA) rising for consecutive bars, especially if it is below the share price.

Indicative of a rising trend

15 and 30 week MA on a weekly chart

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T/A indicator observations

BTW — A note about *trends*

About price trends — uptrends and downtrends

- The classical technical analysis definition of a price **trend** is a sequence of *higher highs* and *higher lows* (or *higher peaks* and *higher troughs*).
- This can be difficult to scan for in charting software, so instead we can look for a hint that the share price is “tending” to rise — such as a Moving Average.

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T/A indicator observations

(b) MACD...

MACD crosses “above” especially when below its own zero line.

MACD crosses “above” especially when below its own zero line.

MACD (12, 26, 9) MACDH (12, 26, 9)

MACD = zero

MACD Signal

Above

DOW Weekly Moving Average Moving Average

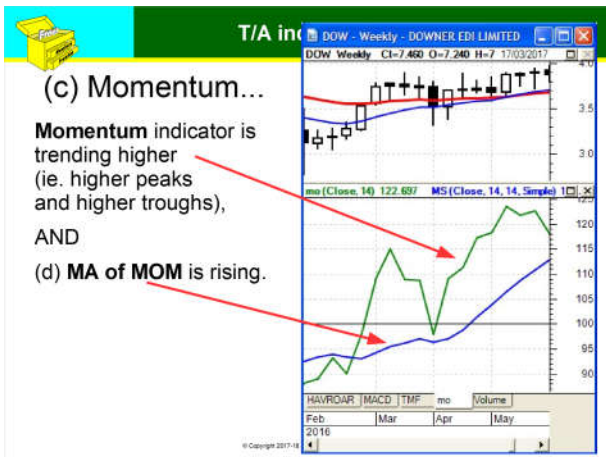
EMA30

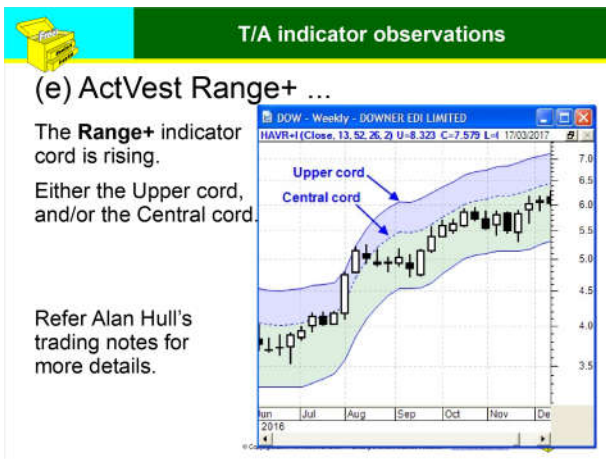
EMA15

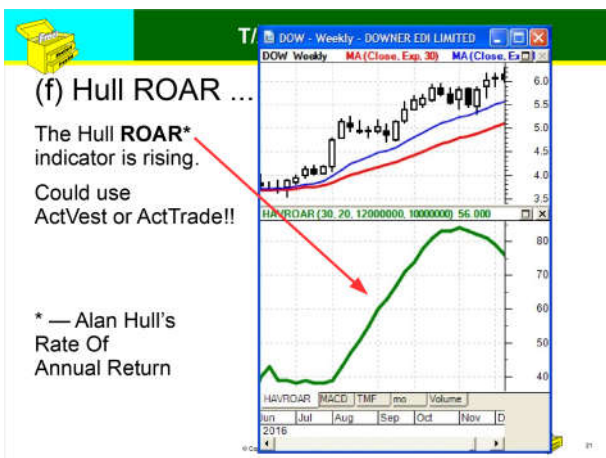
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Ranking stocks using bullish chart indicators (updated)







Ranking stocks using bullish chart indicators (updated)

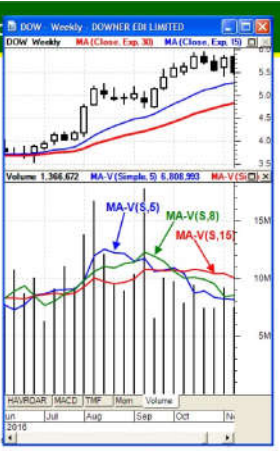
T/A indic

(g) Volume ...

Volume is above a **Moving Average of Volume (MA-V)** and MA-V is rising.

But which MA-V?
Is this useful?

(MA-V = VMA)




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T/A indicator observations

EXAMPLES

Consider the following sample charts and the T.A. indicators ...

Could we have “predicted” the bullish uptrends?



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T/A indicator observations

WARNING!!!

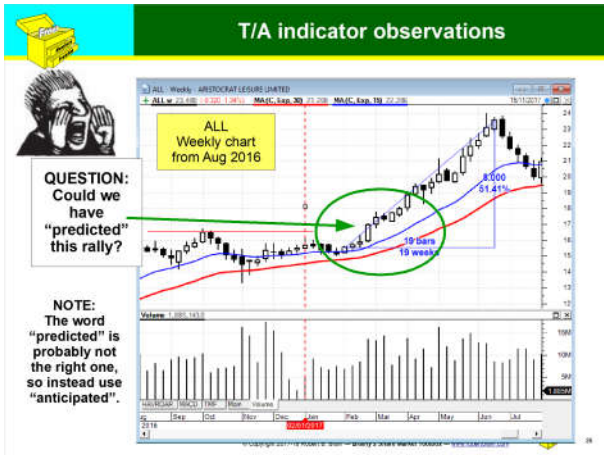
In the following slides, there are many examples of “bullish observations” of technical analysis chart indicators!!

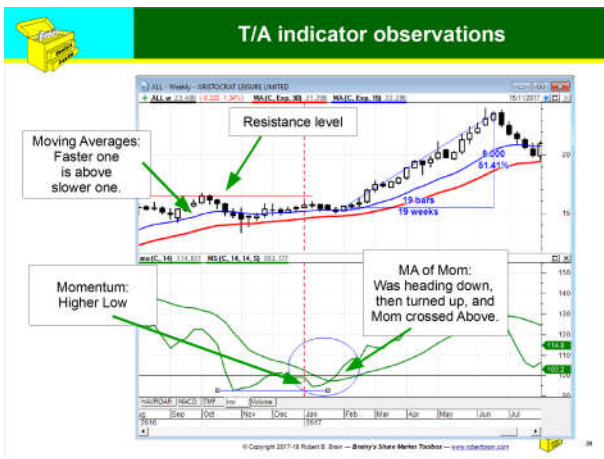
Get ready to make notes!!

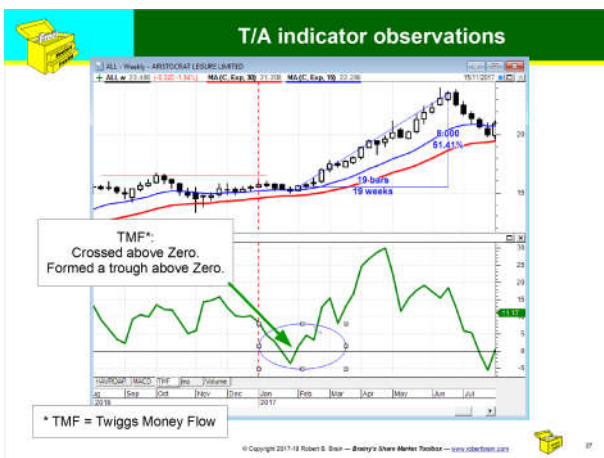


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Ranking stocks using bullish chart indicators (updated)







Ranking stocks using bullish chart indicators (updated)

T/A indicators

Identify the bullish observations in this weekly price chart.

- HAVROAR
- MACD
- TMF
- Momentum (and its MA)
- MA of price
- Volume (and VMA)

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T/A indicator observations

Any other useful ones?

Are there even more bullish observations and indicators that could be useful?

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T/A indicator observations

What Other Indicators??

What other chart indicators could we use?

1. Stochastic?
2. OBV?
3. RSI?
4. Bollinger Bands?
5. ...

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Ranking stocks using bullish chart indicators (updated)

Allocating a Score value

So how to rank the stocks?

Let's allocate a "Score value" for each bullish indicator observation that is true.

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Allocating a Score value

(a) Moving Average rising...

Moving Average (MA) rising for consecutive bars, especially if it is below the share price.

We could allocate a "score"...

| Ref. | Technical analysis indicator observation | Score Value |
|------|--|-------------|
| 1 | 15-week EMA has increased every week for 3 weeks | 1 |
| 2 | 30-week EMA has increased every week for 3 weeks | 1 |
| 3 | If EMA (30) has risen every bar for 5 bars | 1 |
| 4 | If EMA (30) has risen every bar for 8 bars | 1 |

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Allocating a Score value

(b) MACD...

MACD crosses "above" when below its own zero line.

We could allocate a "score"...

| Ref. | Technical analysis indicator observation | Score Value |
|------|--|-------------|
| 8 | MACD indicator value is less than zero, any bar in the last 8 bars | 1 |
| 9 | MACD has crossed "Above" the signal line, any bar in last 8 bars | 1 |
| 10 | MACD value has increased every bar for 3 bars | 1 |

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Ranking stocks using bullish chart indicators (updated)

Allocating a Score value

Tally up the scores for this stock

| Ref. | Technical analysis indicator observation | Score Value |
|---------------------------------|--|-------------|
| 1 | 15-week EMA has increased every week for 3 weeks | 1 |
| 2 | 30-week EMA has increased every week for 3 weeks | 1 |
| 3 | If EMA (30) has risen every bar for 5 bars | 1 |
| 4 | If EMA (30) has risen every bar for 8 bars | 1 |
| 5 | ActVest ROAR (Rate of Annual Return) greater than 20 | (N/A) |
| 6 | ActVest ROAR >= previous ActVest ROAR | (N/A) |
| 7 | Latest Close >= Previous Close | (N/A) |
| 8 | MACD indicator value is less than zero, any bar in the last 8 bars | 1 |
| 9 | MACD has crossed "Above" the signal line, any bar in last 8 bars | 1 |
| 10 | MACD value has increased very bar for 3 bars | 1 |
| TOTAL score (this page): | | 7 |

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Allocating a Score value

| Ref. | Technical analysis indicator observation | Score Value |
|-------------------------------------|--|-------------|
| 11 | Momentum (14) > the Momentum of any of the last 5 bars | 1 |
| 12 | Momentum(14) has "crossed above" the Moving Average of Momentum for any of the last 5 bars | 1 |
| 13 | Momentum(14) is greater than the Moving Average of Momentum for every bar in the last 3 bars | 1 |
| 14 | The MA of Momentum(14) has increased every bar for the 5 bars | 1 |
| 15 | If Twigg's Money Flow (TMF - 13 period) is now the highest it has been in the last 5 bars | (N/A) |
| 16 | If TMF(13) is greater than zero | (N/A) |
| 17 | If TMF(13) is greater than TMF(13) for any bar in the last 5 bars | (N/A) |
| 18 | If Volume > 5-period Moving Average of Volume | 1 |
| 19 | If Volume > 15-period Moving Average of Volume | 1 |
| 20 | If 8-period MA of Volume has increased every bar for 3 bars | 1 |
| TOTAL score (this page): | | 7 |
| TOTAL score (previous page): | | 7 |
| TOTAL score: | | 14 |

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Allocating a Score value

The Total Score

- Take the individual Scores in the previous slides and examples, and simply tally them up to arrive at the "Total Score" value for each stock.
- For the list of stocks and their own Score values, sort the list with the highest scoring stock at the top of the list.

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Ranking stocks using bullish chart indicators (updated)


 **Allocating a Score value**


Another Problem!

In our case study we have listed about 20 criteria. What if:

- If each criteria is allocated one point, and
- Ten of these criteria are all based on observations of **trend indicators**, and
- Five are based on **momentum indicators**, &
- Five are based on **volume observations**.


Won't this result in a bias towards the trend observations?


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 **Allocating a Score value**

A solution to this bias...

- Instead of allocating one point to each observation, we can allocate different amounts (eg. 2 points or 3 points) [we refer to this as the "criteria importance"]
- For example, allocate a percentage of the total score to each category (20% each?):
 - Trend
 - Momentum
 - Price
 - Volatility
 - Volume


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 **T/A indicator observations**

Some tips

In the examples shown, we have used indicator **parameters** that could be tweaked:


1. "period" for MOM, MA, etc. (we used the default value of 14);
2. Scan criteria:- "... if the condition has occurred any time in the last X number of bars";
3. Change the "importance" of each scan criteria.

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Ranking stocks using bullish chart indicators (updated)

How to automate

How to automate?



Once we decide which indicators to use, and which observations of these indicators to use, how can we automate the process of calculating the score for each stock?

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How to automate

My favourite...

In BullCharts software...

- Set up a scan with "Match All Criteria" turned off;
- Create the required scan criteria;
- Then set "Importance" and "Required" options for each scan criteria.

| Criteria | Importance | Required |
|---|------------|----------|
| Open is greater than or equal to previous Open every bar for the last 3 bars. | 1 | No |
| Close is greater than or equal to previous Close every bar for the last 3 bars. | 1 | No |
| 30 bar exponential MA of Close has increased every bar for the last 5 bars. | 2 | No |
| 30 bar exponential MA of Close has increased every bar for the last 8 bars. | 2 | No |
| MACD (12, 26, 9) is less than 0 any bar in the last 8 bars. | 2 | No |
| MACD (12, 26, 9) Above is true any bar in the last 8 bars. | 2 | No |

How to automate

Questions — for how many bars?

In a scan, we could say that each condition must have been in place, "...For ANY bar in the last X bars", or "...For EVERY bar...":

- Moving Average (MA) rising for consecutive bars (For HOW MANY bars?), especially if it is below the share price
- MACD crosses "above" when below its own zero line (Any time in the last X bars)
- Momentum indicator is trending higher (ie. higher peaks and troughs) — (For HOW MANY bars?)
- Moving Average of Momentum is above (For HOW MANY bars?) the Momentum and rising
- ActVest Range+ — indicator cord is rising
- Hull ROAR is rising (For HOW MANY bars?)
- Volume is above a Moving Average of Volume.

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Ranking stocks using bullish chart indicators (updated)

How to automate

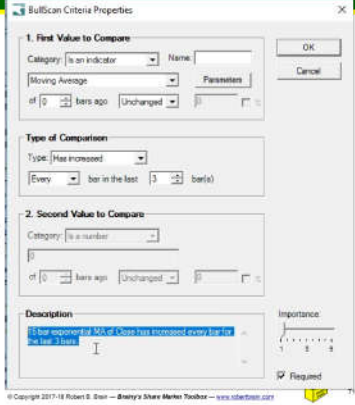
If using BullCharts ...

- If using BullCharts, then view the following slides (and do a demonstration);
- If NOT using BullCharts, then maybe skip the next few slides.

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How to automate

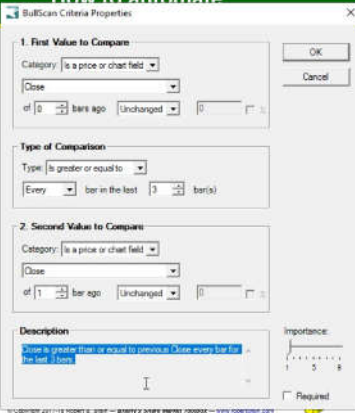
Example criteria:
MA(E,C,15)
increased
every bar
for last 3 bars
(on weekly period)



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How to automate

Example criteria:
Close is
greater than or =
Previous Close
every bar
for last 3 bars.



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Ranking stocks using bullish chart indicators (updated)

How to automate

Example criteria:
 MACD
 has crossed "Above"
 the Signal line
 Any bar
 in the last 8 bars

The screenshot shows the 'BullScan Criteria Properties' dialog box. Under '1. First Value to Compare', the Category is 'is an indicator signal', Name is 'MACD', and it is set to 'of 8 bars ago'. Under 'Type of Comparison', the Type is 'is true' and 'Any bar in the last 8 bar(s)'. Under '2. Second Value to Compare', the Category is 'is a number' and the value is '0'. The Description is 'MACD is above its signal line in the last 8 bars'. The Importance is set to 1.

How to automate

Example criteria:
 Momentum
 is the highest it's been
 in the last 5 bars
 ie. Trending higher.


The screenshot shows the 'BullScan Criteria Properties' dialog box. Under '1. First Value to Compare', the Category is 'is an indicator', Name is 'Momentum', and it is set to 'of 5 bars ago'. Under 'Type of Comparison', the Type is 'is the highest it's been' and 'over the last 5 bar(s)'. Under '2. Second Value to Compare', the Category is 'is a number' and the value is '0'. The Description is 'Momentum (Close, 14) is the highest it's been in 5 bars'. The Importance is set to 1.


How to automate

Example criteria:
 Volume
 is > than
 5-bar SMA
 of Volume
 (ie. the VMA)


The screenshot shows the 'BullScan Criteria Properties' dialog box. Under '1. First Value to Compare', the Category is 'is a price or chart field', Name is 'Volume', and it is set to 'of 1 bars ago'. Under 'Type of Comparison', the Type is 'is greater than' and 'Any bar in the last 1 bar(s)'. Under '2. Second Value to Compare', the Category is 'is an indicator', Name is 'Moving Average', and it is set to 'of 5 bars ago'. The Description is 'Volume is greater than 5 bar simple MA of Volume'. The Importance is set to 1.


Ranking stocks using bullish chart indicators (updated)

 **How to automate**

Other methods? 


Are there other methods for doing a scan across your stock universe and allocating a Score value to produce a sorted list of stocks?


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 **Summary & Wrap up**

SUMMARY


We've looked at bullish observations of several chart indicators, and allocated a "Score" value and considered a "weighting", and considered how to automate.

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 **Summary & Wrap up**

Useful?

Might this approach be useful to rank a list of stocks in order of bullishness and likelihood to perform?

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Ranking stocks using bullish chart indicators (updated)

 **Summary & Wrap up**

Ranking stocks — chart indicators

Bullish observations of chart indicators can be used to produce a ranked list of stocks.

Every chart tells a story. It pays to understand the stories in the charts.

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 **Summary & Wrap up**

BTW

- I send occasional email to interested people
- My **Share Market Toolbox** web site:
 - Toolbox Members receive weekly email with (charts) analysis of our market
 - And there's lots more (stop loss, trends, etc...)
- Register for free and not miss out.
- Send me an email request: robert@robertbrain.com

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 **Summary & Wrap up**

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 - Weekly Market Updates and Watch List
 - monthly e-Newsletters
- Good software – BullCharts www.robertbrain.com/bullcharts/
- My contact details: web site above, or phone: 0438 355 910

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Ranking stocks using bullish chart indicators (updated)

 **Summary & Wrap up**

ATAA — networking, etc.
For totally unbiased and broad support:

 Australian
Technical Analysts
Association

- Eight locations around Australia
- Monthly meetings
- Lots of resources — www.ataa.asn.au

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 **Summary & Wrap up**

Q & A ?

**Any
questions?**

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 **Summary & Wrap up**

THE END

See free stuff here:
www.robertbrain.com/free

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