

STOCK CHARTS SCAN LOGIC

This guide to using Stock Charts scan engine may appear somewhat complicated to the uninitiated but aside from making sure that all arguments or statements are enclosed in brackets, the most common confusion is with the “greater and lesser” indicators.

This is greater than > and this is lesser than <

After constructing your logic, the check syntax button will tell you if there are errors in your scan expression.

TICKER PROPERTIES

[type is stock]

[symbol starts with 'A']

[name contains 'DOW']

[country is US]

[country = canada]

[exchange is NYSE]

[favorites list = 5]

[EPS > 1.00] and

[PE ratio > 15.00]

[market cap > 10,000]

PRICE VOLUME AND INDICATORS

[High > 99.9] and

[Close > 99.9] and

[Open > 99.9] and

[Low > 99.9] and

[Volume > 9,999,999]

[Range > 9.99]

CANDLESTICK PATTERNS

[Bullish Engulfing is true] and [Bearish Engulfing is true] and [Dark Cloud Cover is true] and [Piercing Line is true] and [Bullish Harami is true] and [Bearish Harami is true] and [Morning Star is true] and [Evening Star is true] and [Rising Three Methods is true] and [Falling Three Methods is true] and [Gravestone Doji is true] and [Dragonfly Doji is true] and [Three White Soldier is true] and [Three Black Crows is true] and [Hammer is true] and [Shooting Star is true] and [Filled Black Candle is true] and [Hollow Red Candle is true]

PnF PATTERNS

[Bullish Catapult is true] and [Bearish Catapult is true] and [Bullish Signal Reversal is true] and [Bearish Signal Reversal is true] and [Bullish Triangle is true] and [Bearish Triangle is true] and [Long Tail Down is true] and [Triple Top is true] and [Triple Bottom is true] and [Spread Triple Top is true] and [Ascending Triple Top is true] and [Descending Triple Bottom is true] and [Quadruple Top is true] and [Quadruple Bottom is true] and [Bull Trap is true] and [Bear Trap is true] and [Double Top is true] and [Double Bottom is true]

[Buy Signal is true] and [Sell Signal is true] and [Chart In Xs is true] and [Chart in Os is true] and [High Pole is true] and [Low Pole is true]

PRE-DEFINED SCANS

NEW 52 WEEK HIGH

[today's high > yesterday's daily max(260,high)]

NEW 52 WEEK LOW

[today's low < yesterday's daily min(260,low)]

BULLISH 50/200 DAY MA CROSS

[today's sma(50,close) > today's sma(200,close)] and [yesterday's sma(50,close) <= yesterday's sma(200,close)] and

BEARISH 50/200 MA CROSS

[today's sma(50,close) < today's sma(200,close)] and [yesterday's sma(50,close) >= yesterday's sma(200,close)]

MACD

BULLISH MACD CROSSOVER

[macd line < 0] and [macd line >= macd signal] and [yesterday's macd line < yesterday's macd signal] and [2 days ago macd line < 2 days ago macd signal] and [3 days ago macd line < 3 days ago macd signal] and [3 days ago macd hist < 3 days ago macd signal * 0.25]

BEARISH MACD CROSSOVER

[macd line > 0] and [macd line <= macd signal] and [yesterday's macd line > yesterday's macd signal] and [2 days ago macd line > 2 days ago macd signal] and [3 days ago macd line > 3 days ago macd signal] and [3 days ago macd hist > 3 days ago macd signal * 0.25]

RSI

OVER BOUGHT WITH DECLINING RSI

[rsi < 70] and [yesterday's rsi > 71] and [2 days ago rsi > 72] and [3 days ago rsi > 73] and [rsi > 30] and [yesterday's rsi < 29] and [2 days ago rsi < 28] and [3 days ago rsi < 27]

OVER SOLD WITH IMPROVING RSI

[rsi > 30] and [yesterday's rsi < 29] and [2 days ago rsi < 28] and [3 days ago rsi < 27]

MOVED ABOVE UPPER BOLLINGER BAND

[yesterday's close <= yesterday's upper bb] and [close > upper bb]

MOVED BELOW LOWER BOLLINGER BAND

[yesterday's close >= yesterday's lower bb] and [close < lower bb]

IMPROVING CMF

[cmf >= 0.2] and [yesterday's cmf < 0.2] and [2 days ago cmf < 0.2] and [3 days ago cmf < 0.2] and [4 days ago cmf < 0.2]

DECLINING CMF

[cmf < -0.2] and [yesterday's cmf > -0.2] and [2 days ago cmf > -0.2] and [3 days ago cmf > -0.2] and [4 days ago cmf > -0.2]

AROON NEW UP TREND

[aroon osc > 50] and [yesterday's aroon osc <= 50]

AROON NEW DOWN TREND

[aroon osc < -50] and [yesterday's aroon osc >= -50]

ADX NEW UPTREND

[adx line > 20] and [yesterday's adx line <= 20] and [2 days ago adx line <= 20] and [Plus DI > Minus DI]

ADX NEW DOWNTREND

[adx line > 20] and [yesterday's adx line <= 20] and [2 days ago adx line <= 20] and [Plus DI < Minus DI]

STRONG VOLUME GAINER

[volume > yesterday's sma(20,volume)*4] and [close > yesterday's close]

STRONG VOLUME DECLINER

[volume > yesterday's sma(20,volume)*4] and [close > yesterday's close]

CCI BUY SIGNAL

[cci > 100] and [yesterday's cci <= 100] and [2 days ago cci < 100]

CCI SELL SIGNAL

[cci < -100] and [yesterday's cci >= -100] and [2 days ago cci > -100]

PARABOLIC SAR BUY SIGNAL

[yesterday's parabolic sar > yesterday's close] and [parabolic sar < close]

PARABOLIC SAR SELL SIGNAL

[parabolic sar < yesterday's close] and [parabolic sar > close]

GAP UP

[today's low > yesterday's high * 1.026]

GAP DOWN

[today's high < yesterday's low * 0.974]

BREAK AWAY GAP UP

[yesterday's min(5,low) > yesterday's max(5,high) * 0.95] and [yesterday's max(5,high) < today's low * 0.975] and [today's low != today's high]

RUNAWAY GAP UP

[yesterday's close > yesterday's ema(10,close)] and [today's low > yesterday's high * 1.025] and [today's low != today's high]

ISLAND TOP

[2 days ago close > 2 days ago ema(10,close)] and [yesterday's low > 2 days ago high * 1.025] and [yesterday's low != yesterday's high] and [today's high < yesterday's low * 0.975]

BREAK AWAY GAP DOWN

[yesterday's min(5,low) > yesterday's max(5,high) * 0.95] and [yesterday's min(5,low) > today's high * 1.025] and [today's low != today's high]

RUNAWAY GAP DOWN

[yesterday's close < yesterday's ema(10,close)] and [today's high < yesterday's low * 0.975] and [today's low != today's high]

ISLAND BOTTOM

[2 days ago close < 2 days ago ema(10,close)] and [yesterday's high < 2 days ago low * 0.975] and [yesterday's low != yesterday's high] and [today's low > yesterday's high * 1.025]

INDICES

MAJOR INDICES

[group is DJTA] and [group is DJUA] and [group is DOW30] and [group is DOW65] and [group is NASDAQ100] and [group is SP500] and [group is SP100] and [group is SP400] and [group is SP600] and [group is TSE300]

AMEX

[group is BTK] and [group is CMR] and [group is DRG] and [group is NWX] and [group is XAL] and [group is XBD] and [group is XCI] and [group is XNG] and [group is XOI] and [group is XAU] and [group is YLS]

PHLX

[group is SOX] and [group is BKX] and [group is BMX] and [group is DFX] and [group is FOP] and [group is FPP] and [group is OSX] and [group is XAU] and [group is YLS]

S&P SECTORS AND INDUSTRIES

CONSUMER DISCRETIONARY

[group is SPGICS-25]

AUTOMOBILE AND COMPONENTS

[group is SPGICS-2510]

AUTO COMPONENTS

[group is SPGICS-251010]

AUTOMOBILES

[group is SPGICS-251020]

CONSUMER DURABLE GOODS

HOUSEHOLD DURABLES

[group is SPGICS-2520]

LEISURE EQUIPMENT

[group is SPGICS-252010]

TEXTILE APPAREL, LUXURY GOODS

[group is SPGICS-252030]

HOTELS AND RESTAURANTS GROUP

[group is SPGICS-2530]

MEDIA GROUP

[group is SPGICS-2540]

RETAILING GROUP

[group is SPGICS-2550] and

DISTRIBUTORS

[group is SPGICS-255010] and

INTERNET AND CATALOGUE RETAILING

[group is SPGICS-255020] and

MULTILINE RETAIL

[group is SPGICS-255030]

SPECIALTY RETAIL

[group is SPGICS-255040]

CONSUMER STAPLES

CONSUMER STAPLES [group is SPGICS-30]

FOOD AND DRUG RETAILING GROUP [group is SPGICS-3010]

FOOD BEVERAGES TOBACCO GROUP [group is SPGICS-3020]

BEVERAGES [group is SPGICS-302010]

FOOD PRODUCTS [group is SPGICS-302020]

TOBACCO [group is SPGICS-302030]

HOUSEHOLD PERSONAL PRODUCTS GROUP

[group is SPGICS-3030]

HOUSEHOLD PRODUCTS

[group is SPGICS-303010]

PERSONAL PRODUCTS

[group is SPGICS-303020] HEALTHCARE [group is SPGICS-35] EQUIPMENT & PROVIDERS GROUP [group is SPGICS-3510] HEALTH EQUIPMENT [group is SPGICS-351010] HEALTH PROVIDERS [group is SPGICS-351020] PHARMACEUTICALS GROUP [group is SPGICS-3520] BIOTECHNOLOGY [group is SPGICS-352010] PHARAMCEUTICALS [group is SPGICS-352020]

Starting trading days before the show me the symbols that meet the following criteria.

or choose from
[Add/Modify the Current Scan](#)

Scan Expression [help](#)

```
[type = stock] and [country = us] and [daily sma(20,daily volume) > 40000] and [today's high > yesterday's daily max(260,high)]
```

Your scan syntax is correct. Click "Run Scan" to view the results.

Scan Builder [help](#)

Use these dropdown menus to help you insert individual clauses into your scan expression, above.

The clauses will be inserted with default values that you can adjust.

Click [here](#) to see some examples.

Ticker Properties:	- Choose - <input type="button" value="Insert"/>
Price, Volume, and Indicators:	- Choose - <input type="button" value="Insert"/>
Candlestick Patterns:	- Choose - <input type="button" value="Insert"/>
P&F Patterns:	- Choose - <input type="button" value="Insert"/>
Predefined Scans:	- Choose - <input type="button" value="Insert"/>
S&P Sectors and Industries:	- Choose - <input type="button" value="Insert"/>
Indices:	- Choose - <input type="button" value="Insert"/>
Favorites Lists:	- Choose - <input type="button" value="Insert"/>

A scan expression is comprised of several clauses joined together by the words "and" or "or". Each of the clauses is contained between left and right square brackets. An example scan is shown below.

In this example, we are searching for all large cap stocks that have closed higher for the past two days, and, in addition, have closed in the upper half of today's range with 25% above average volume.

You may enter your scan expression by hand, or you can use the "Scan Builder" to help you insert individual clauses (remember to click "Insert" after making a selection). Scan clauses are inserted with default values that may be edited by hand. The following list summarizes the valid values that various clauses may have, and numerous examples are given.

Ticker Properties

Property	Acceptable Values	Example
type	<i>Stock, Index, Fund</i>	[type is stock]
symbol	<i>Any alphanumeric value*</i>	[symbol starts with 'Z']
name	<i>Any alphanumeric value*</i>	[name contains 'Energy']
country	<i>US, USA, U.S., Canada</i>	[country is US]
exchange	<i>Nasdaq, NYSE, AMEX, Toronto, TSE, Candex, CDNX, CNDX</i>	[exchange is Nasdaq]
eps	<i>Earnings per share</i>	[eps > 1.50]
pe ratio	<i>PE Ratio</i>	[pe ratio > 15]
market cap	<i>Market Cap (in millions)</i>	[market cap > 10,000]

* When using "starts with", "ends with", or "contains", the value must be enclosed in single quotes.

Price, Volume, and Indicators

<i>Today's close greater than or equal to 99</i>	[close >= 99]
<i>Closed less than yesterday</i>	[close < yesterday's close]
<i>Today's volume is higher than the 50-day avg volume</i>	[volume > SMA(50, volume)]
<i>Today's range greater than \$5.00</i>	[high-low > 5.00]
<i>20-day Simple moving avg of close is increasing over a 5-day period</i>	[SMA(20, close) > 5 days ago SMA(20, close)]
<i>New 260-period high</i>	[high > yesterday's max(260,high)]
<i>The Aroon Oscillator crosses above 0.0</i>	[Aroon Osc(25) crosses 0.0]

Candlestick and P&F Patterns

<i>Bearish Engulfing pattern is present today</i>	[bearish engulfing is true]
<i>Bearish Engulfing pattern was not present yesterday</i>	[yesterday's bearish engulfing is false]
<i>A Hammer pattern is present this week (on the weekly chart)</i>	[weekly hammer is true]
<i>Bullish Catapult pattern is present today</i>	[bullish catapult is true]
<i>Bullish Catapult pattern was 2 days ago</i>	[2 day's ago bullish catapult is true]

Sectors, Indexes, and Favorites Lists

<i>A member of the S&P 500 or the TSE 300</i>	[[group is SP500] or [group is TSE300]]
<i>A member of your favorites list number 4</i>	[favorites list = 4]
<i>A member of the PHLX Semiconductor Index</i>	[group is SOX]

Notes on Scanning Daily Results and Weekly Results

There are usually several different ways to write the same scan expression. For example, using Daily results, all of the following expressions are identical.

<i>Today's close is greater than yesterday's close</i>	[today's close > yesterday's close] [close > yesterday's close] [today's daily close > yesterday's daily close]
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When scanning Weekly results, the word "weekly" can be substituted for the word "daily". Similarly, the phrase "last week" can be substituted for the word "yesterday", and so forth. Here are some examples.

<i>Today's close is greater than the close at the end of last week</i>	[today's weekly close > last week's close] [weekly close > last week's close] [this week's close > last week's close]
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Notes on Using Mathematical Expressions

Scan expressions can handle simple math. The arithmetic is performed left-to-right, but items enclosed between square brackets will be evaluated as a single unit. Some examples are shown below.

<i>Today's close is in the upper 90% of the high-low range</i>	[close > 0.90*[high - low] + low] [close > low + [0.90*[high - low]]]
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The following example *will not* give the desired result, because the "low + 0.90" operation is performed *before* the multiplication.

<i>Incorrect scan expression</i>	[close > low + 0.90*[high - low]]
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