Relative Strength Filter
Global Summary

Group Selection
Priced as of November 6, 2018

Note: Group tickers incorporate hyperlinks to decile charts, and then a link to our Toolkit of the group members.

See back pages for user guide and disclaimer.
Sources for all charts: BMO Capital Markets
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Sector View

Sector Relative Strength Profiles*

<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>Energy</td>
<td>31% / 47% / 50%</td>
<td>-4% / -7% / -6%</td>
<td></td>
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<tr>
<td>Materials</td>
<td>19% / 27% / 29%</td>
<td>8% / 4% / 8%</td>
<td></td>
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<tr>
<td>Industrials</td>
<td>26% / 39% / 40%</td>
<td>4% / 3% / 5%</td>
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<tr>
<td>CMR Disc</td>
<td>27% / 35% / 36%</td>
<td>8% / 6% / 9%</td>
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<tr>
<td>CMR Stap</td>
<td>29% / 41% / 45%</td>
<td>15% / 14% / 17%</td>
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<tr>
<td>Hlth Care</td>
<td>49% / 60% / 61%</td>
<td>-5% / -5% / -3%</td>
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<tr>
<td>Financials</td>
<td>20% / 36% / 39%</td>
<td>15% / 10% / 16%</td>
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<tr>
<td>Info Tech</td>
<td>38% / 50% / 51%</td>
<td>-5% / -8% / -4%</td>
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<td>Comm Srv</td>
<td>33% / 44% / 46%</td>
<td>8% / 6% / 10%</td>
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<tr>
<td>Utilities</td>
<td>32% / 48% / 50%</td>
<td>21% / 18% / 24%</td>
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<tr>
<td>Real Estate</td>
<td>34% / 54% / 56%</td>
<td>11% / 5% / 12%</td>
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*Three terms define the relative performance Z-Score rating versus the markets (US = S&P 500; GBL = MSCI AC World; CDA = S&P/TSX Composite)
(a) % Outperforming - what percentage of sector members is outperforming the market,
(b) Reward/Risk - how consistent is the median relative strength performance of the sector membership (ascending / descending ranking),
(c) Trend Psn - what is the net percentage of the sector members which are breaking above/below relative strength channels.
The strength z-Score is weighted 60% towards the trend parameters (% outperforming and reward/risk ratios) and 40% towards the trend positions (reversals of trends). Gridlines are placed at 0.5 increments.

See Help Pages for further details.
November 6, 2018

Momentum

Strength

Energy

Coal & Uran
21 stocks; $78bn

OG StTr
81 stocks; $621bn

OG RfMkt
41 stocks; $500bn

Int O&G
31 stocks; $1,068bn

OG Drill
14 stocks; $31bn

OG Equip
59 stocks; $242bn

OG E&P
112 stocks; $825bn
<table>
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<tr>
<th>Sector</th>
<th>Momentum</th>
<th>Strength</th>
<th>Stocks</th>
<th>Assets (bn)</th>
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<tbody>
<tr>
<td>IntHmEnt</td>
<td></td>
<td></td>
<td>18</td>
<td>$224bn</td>
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<tr>
<td>Broadcast</td>
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<td>WlsTelSrv</td>
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<td>45</td>
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<td>IntgTelSrv</td>
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<td>57</td>
<td>$1246bn</td>
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<td>Mov&amp;Ent</td>
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<td>27</td>
<td>$497bn</td>
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<tr>
<td>Cbl&amp;Sat</td>
<td></td>
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<td>23</td>
<td>$456bn</td>
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<tr>
<td>AltCar</td>
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<td></td>
<td>10</td>
<td>$53bn</td>
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<tr>
<td>IntMeSer</td>
<td></td>
<td></td>
<td>40</td>
<td>$1300bn</td>
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<tr>
<td>Publishing</td>
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<td></td>
<td>14</td>
<td>$49bn</td>
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<td>Advert</td>
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<td>18</td>
<td>$110bn</td>
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Utilities

November 6, 2018

Mark Steele (416) 359-4641

ElecUtil
35 stocks; $1153bn

WaterUtil
22 stocks; $82bn

MultiUtil
35 stocks; $436bn

IPPTrad
23 stocks; $114bn

RenewElec
20 stocks; $520bn

GasUtil
35 stocks; $233bn
Group Strength
Our Global Group analysis is based on bottom-up equity relative strength analysis as opposed to industry group (index) relative strength analysis.

Strength Decile Defined By
1. What percentage of a group’s members are outperforming
2. How consistent that outperformance is
3. How the are members positioned (above/below) vs. their trend channels.

Momentum Decile
Rate of change of strength (change in 5-day moving average)

The Underlying Equity Relative Strength Analysis
Each day, for every equity we cover, our relative strength system assesses the best fit trend from a spectrum which covers a minimum trend duration of six months, and a maximum of 4-years. The "best fit" is the trend which maximizes duration, and minimizes deviation from the trend. Our process is flexible, thorough, and because it is run daily, timely.

The Dataset:
- Over 5,700 securities.
- Groups have a:
  ...Median depth of 28
  ...Average depth of 36

Heat Map Colour and Symbol Guide
Strength is highlighted by the background of the group title
- Bright green = best (1st decile) transitions towards...
- Bright red = worst (10th decile)
Momentum is highlighted in the border of the group title
- Colour map for momentum is the same as strength
Symbols to the right of the group ticker show where a group moved from in the previous session. Below the group symbol we highlight the number and total market capitalization of the members in a group. Clicking on the group, which brings up the chart via a hyperlink, will help to clarify the moves.
Our Goals:
- To buy outperforming stocks in favoured groups
- To avoid underperforming stocks in unfavoured groups
- To be alerted of and act on the changes

#1 Rule of Momentum: You can use it only if it exists

- In stable/trending markets, one can buy stocks with high strength and momentum and hold them as long as momentum does not turn negative (trend following).

- In very rotational markets (e.g., where credit, currency, commodity conditions are choppy/changing):
  - Buying high strength and high momentum may be dangerous (buying yesterday’s winners).
  - One is better off buying stocks with moderate strength and high momentum (bottom fishing).
Buy
- Groups with high strength and high positive momentum (top left) - “In Favour”
- Groups with moderate strength and high positive momentum - “Transitioning to Positive”
- Groups with mediocre strength and high positive momentum - “Gaining Favour”

Buy/Hold
- Groups with high strength and neutral momentum (middle left) - “Maintaining Favour”

Sell
- Groups with low strength and high negative momentum (bottom right) - “Out of Favour”
- Groups with moderately negative strength and high negative momentum - “Transitioning to Negative”
- Groups with mediocre strength and high negative momentum - “Losing Favour”
User Guide 4 - Hyperlinks To Decile Charts & Stock Selection

- Each group is hyperlinked to a chart that shows the relative strength decile as a function of time, and the moving average (momentum).

- Each chart is hyperlinked to the group membership, in our RS Filter Toolkit.
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<tr>
<td>Buy</td>
<td>Outperform</td>
<td>43.2%</td>
<td>22.8%</td>
<td>57.4%</td>
<td>44.1%</td>
<td>57.0%</td>
<td>52.8%</td>
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<tr>
<td>Hold</td>
<td>Market Perform</td>
<td>53.2%</td>
<td>13.1%</td>
<td>40.6%</td>
<td>52.6%</td>
<td>41.1%</td>
<td>41.6%</td>
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<tr>
<td>Sell</td>
<td>Underperform</td>
<td>3.7%</td>
<td>9.5%</td>
<td>2.0%</td>
<td>3.2%</td>
<td>1.6%</td>
<td>5.5%</td>
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* Reflects rating distribution of all companies covered by BMO Capital Markets Corp. equity research analysts.
** Reflects rating distribution of all companies from which BMO Capital Markets Corp. has received compensation for Investment Banking services as percentage within ratings category.
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- Und = Underperform - Forecast to underperform the analyst’s coverage universe on a total return basis;
- (S) = Speculative investment;
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(January 2010 - April 2013)

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