Relative Strength Filter
Global Summary

Group Selection
Priced as of May 28, 2019

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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13. Information Technology
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Sector Relative Strength Profiles*

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<th></th>
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</thead>
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<tr>
<td>Energy</td>
<td>30% / 33% / 26%</td>
<td>/</td>
<td>-6% / -5% / -8%</td>
</tr>
<tr>
<td>Materials</td>
<td>33% / 35% / 31%</td>
<td>/</td>
<td>-8% / -10% / -16%</td>
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<tr>
<td>Industrials</td>
<td>41% / 44% / 41%</td>
<td>/</td>
<td>3% / 2% / -2%</td>
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<tr>
<td>CMR Disc</td>
<td>42% / 44% / 40%</td>
<td>/</td>
<td>-5% / -5% / -6%</td>
</tr>
<tr>
<td>CMR Stap</td>
<td>43% / 45% / 44%</td>
<td>/</td>
<td>8% / 8% / 2%</td>
</tr>
<tr>
<td>Hlth Care</td>
<td>43% / 43% / 40%</td>
<td>/</td>
<td>4% / 2% / 1%</td>
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<tr>
<td>Financials</td>
<td>37% / 39% / 35%</td>
<td>/</td>
<td>9% / 9% / 3%</td>
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<tr>
<td>Info Tech</td>
<td>63% / 66% / 63%</td>
<td>/</td>
<td>-6% / -7% / -10%</td>
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<tr>
<td>Comm Srv</td>
<td>37% / 42% / 38%</td>
<td>/</td>
<td>4% / 1% / 0%</td>
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<tr>
<td>Utilities</td>
<td>43% / 51% / 47%</td>
<td>/</td>
<td>10% / 9% / 3%</td>
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<tr>
<td>Real Estate</td>
<td>55% / 60% / 51%</td>
<td>/</td>
<td>9% / 8% / 2%</td>
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</table>

*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 ( / 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
Resources

- PaperPkg: 17 stocks, $164bn
- DvrsMng: 50 stocks, $374bn
- Coal&Uran: 21 stocks, $80bn
- PrecMet: 14 stocks, $42bn
- OG RfMkt: 35 stocks, $449bn
- Int O&G: 32 stocks, $1722bn
- MtGlsCnt: 13 stocks, $66bn
- SpecChm: 77 stocks, $617bn
- Silver: 70 stocks, $15bn
- ComdChm: 16 stocks, $372bn
- DiversChm: 31 stocks, $170bn
- Alumin: 61 stocks, $176bn
- OG Equip: 65 stocks, $153bn
- OG StTr: 66 stocks, $620bn
- Copper: 76 stocks, $76bn
- Fert&Ag: 29 stocks, $136bn
- OG E&P: 95 stocks, $709bn

Momentum

Strength
Momentum
Strength

Energy

Coal & Uran
21 stocks, $80bn

OG RfMkt
35 stocks, $449bn

Int O&G
32 stocks, $1722bn

OG Drill
10 stocks, $19bn

OG StTr
36 stocks, $520bn

OG Equip
55 stocks, $183bn

OG E&P
95 stocks, $620bn

Int O&G
32 stocks, $1722bn

OG Drill
10 stocks, $19bn

OG StTr
36 stocks, $520bn

OG Equip
55 stocks, $183bn

OG E&P
95 stocks, $620bn
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<tr>
<th>Sector</th>
<th>Strength</th>
<th>Momentum</th>
<th>Stocks</th>
<th>Market Cap</th>
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<tr>
<td>AirprtSrv</td>
<td>21 stocks; $164bn</td>
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<tr>
<td>HvyElcEq</td>
<td>17 stocks; $186bn</td>
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<tr>
<td>CnstMch&amp;Tr</td>
<td>4 stocks; $355bn</td>
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<tr>
<td>DvSpSrv</td>
<td>22 stocks; $115bn</td>
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<tr>
<td>Railroads</td>
<td>28 stocks; $592bn</td>
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<tr>
<td>HREmpl</td>
<td>25 stocks; $136bn</td>
<td></td>
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<tr>
<td>Sec&amp;Alm</td>
<td>8 stocks; $14bn</td>
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<td>Ag&amp;Farm</td>
<td>10 stocks; $89bn</td>
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<td>IndCongl</td>
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<td>RsrcCslt</td>
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<tr>
<td>Hvy&amp;Rail</td>
<td>14 stocks; $166bn</td>
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<tr>
<td>EnviroServ</td>
<td>27 stocks; $166bn</td>
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<td>ElcCmpEq</td>
<td>45 stocks; $380bn</td>
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<td>16 stocks; $150bn</td>
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<td>OfficeServ</td>
<td>10 stocks; $122bn</td>
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<tr>
<td>AirFrght</td>
<td>26 stocks; $225bn</td>
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<td>CmclPrt</td>
<td>9 stocks; $27bn</td>
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<tr>
<td>Aero&amp;Def</td>
<td>52 stocks; $1004bn</td>
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<td>Marine</td>
<td>131 stocks; $636bn</td>
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<tr>
<td>TrdgDist</td>
<td>59 stocks; $314bn</td>
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<td>Trucking</td>
<td>26 stocks; $166bn</td>
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<tr>
<td>IndMach</td>
<td>131 stocks; $636bn</td>
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<td>Cns&amp;Eng</td>
<td>74 stocks; $376bn</td>
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<td>BldPrdcts</td>
<td>50 stocks; $267bn</td>
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<tr>
<td>Marine</td>
<td>14 stocks; $45bn</td>
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<tr>
<td>RsrcCslt</td>
<td>27 stocks; $300bn</td>
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<td>Hvy&amp;Rail</td>
<td>14 stocks; $166bn</td>
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<tr>
<td>BldPrdcts</td>
<td>50 stocks; $267bn</td>
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<tr>
<td>Telecommunication Services</td>
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<tr>
<td><strong>Momentum</strong></td>
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<tr>
<td>WlsTelSrv</td>
<td></td>
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<tr>
<td>42 stocks; $857bn</td>
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<td>AltCar</td>
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<tr>
<td>9 stocks; $34bn</td>
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<td>IntgTelSrv</td>
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<tr>
<td>55 stocks; $1268bn</td>
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<td>26 stocks; $86bn</td>
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<td>Advert</td>
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<tr>
<td>17 stocks; $104bn</td>
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<td>Publishing</td>
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<td>14 stocks; $45bn</td>
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<tr>
<td>IntHmEnt</td>
<td></td>
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<tr>
<td>23 stocks; $239bn</td>
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<td>Cabl&amp;Sat</td>
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<td>24 stocks; $407bn</td>
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<td>Mov&amp;Ent</td>
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<tr>
<td>26 stocks; $536bn</td>
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<tr>
<td>IntMeSer</td>
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<tr>
<td>43 stocks; $1433bn</td>
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Utilities

Momentum

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<th>Strength</th>
<th>RenewElec</th>
<th>WaterUtil</th>
<th>ElecUtil</th>
<th>IPPTrad</th>
<th>GasUtil</th>
<th>MultiUtil</th>
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<tr>
<td></td>
<td>25 stocks; $133bn</td>
<td>24 stocks; $97bn</td>
<td>86 stocks; $1224bn</td>
<td>25 stocks; $133bn</td>
<td>34 stocks; $249bn</td>
<td>35 stocks; $501bn</td>
</tr>
</tbody>
</table>

Mark Steele (416) 359-4641

Utilities

Renewable Energy (RenewElec): 25 stocks; $133bn
Water Utilities (WaterUtil): 24 stocks; $97bn
Electric Utilities (ElecUtil): 86 stocks; $1224bn
Integrated Power Production & Trading (IPPTrad): 25 stocks; $133bn
Gas Utilities (GasUtil): 34 stocks; $249bn
Multiple Utilities (MultiUtil): 35 stocks; $501bn
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 groups 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).
User Guide 3 - Buy/Hold/Sell

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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ETFs designed to track an index or asset may experience a discrepancy between the ETF’s performance and the performance of its target index known as tracking error. A variety of factors can create a performance gap between ETF and its target index such as the impact of transaction fees and expenses incurred by the ETF, changes in composition of the underlying index/assets, the ETF portfolio manager’s replication strategy and sampling techniques, and the timing of purchases and redemptions of ETF’s shares. Inverse and Leveraged ETFs: Most leveraged ETFs seek to provide a multiple of the investment returns of a given index or benchmark on a daily basis. Inverse ETFs seek to provide the opposite of the investment returns, also daily, of a given index or benchmark, either in whole or by multiples. Due to the effects of compounding and possible correlation errors, leveraged and inverse ETFs may experience greater losses than one would ordinarily expect.

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**Distribution of Ratings (March 31, 2017)**

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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.
*** Reflects rating distribution of all companies from which BMO Capital Markets Corp. has received compensation for Investment Banking services as percentage of Investment Banking clients.
**** Reflects rating distribution of all companies covered by BMO Capital Markets equity research analysts.
***** Reflects rating distribution of all companies from which BMO Capital Markets has received compensation for Investment Banking services as percentage of Investment Banking clients.
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We use the following ratings system definitions:
OP = Outperform - Forecast to outperform the analyst’s coverage universe on a total return basis;
Mkt = Market Perform - Forecast to perform roughly in line with the analyst’s coverage universe on a total return basis;
Und = Underperform - Forecast to underperform the analyst’s coverage universe on a total return basis;
(S) = Speculative investment;
Spd = Suspended - Coverage and rating suspended until coverage is reinstated;
NR = No Rated - No rating at this time; and
R = Restricted - Dissemination of research is currently restricted.

BMO Capital Markets’ seven Top 15 lists guide investors to our best ideas according to different objectives (CDN Large Cap, CDN Small Cap, US Large Cap, US Small Cap, Income, CDN Quant, and US Quant have replaced the Top Pick rating).

Prior BMO Capital Markets Rating System
(April 2013 - October 2016)
(January 2010 - April 2013)

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