Relative Strength Filter
Global Summary

Group Selection
Priced as of August 20, 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 Relative Strength Profiles*

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<tbody>
<tr>
<td>Energy</td>
<td>51% / 57% / 57%</td>
<td>/ / -10% / -4% / -7%</td>
<td></td>
</tr>
<tr>
<td>Materials</td>
<td>30% / 36% / 33%</td>
<td>/ / -22% / -13% / -18%</td>
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<tr>
<td>Industrials</td>
<td>35% / 43% / 41%</td>
<td>/ / -5% / 6% / 2%</td>
<td></td>
</tr>
<tr>
<td>CMR Disc</td>
<td>39% / 46% / 42%</td>
<td>/ / -9% / -2% / -3%</td>
<td></td>
</tr>
<tr>
<td>CMR Stap</td>
<td>38% / 43% / 41%</td>
<td>/ / -9% / 3% / 0%</td>
<td></td>
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<tr>
<td>Hlth Care</td>
<td>54% / 60% / 58%</td>
<td>/ / -7% / 2% / -3%</td>
<td></td>
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<tr>
<td>Financials</td>
<td>36% / 48% / 39%</td>
<td>/ / -7% / 4% / 3%</td>
<td></td>
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<tr>
<td>Info Tech</td>
<td>50% / 57% / 54%</td>
<td>/ / -14% / -6% / -7%</td>
<td></td>
</tr>
<tr>
<td>Telecom</td>
<td>20% / 30% / 26%</td>
<td>/ / 6% / 15% / 10%</td>
<td></td>
</tr>
<tr>
<td>Utilities</td>
<td>38% / 52% / 42%</td>
<td>/ / -6% / 1% / 0%</td>
<td></td>
</tr>
<tr>
<td>Real Estate</td>
<td>50% / 64% / 52%</td>
<td>/ / -4% / 5% / 10%</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 ( / 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
OG StTr
43 stocks; $679bn

OG RfMkt
43 stocks; $557bn

OG E&P
613 stocks; $865bn

OG Drill
14 stocks; $32bn

Int O&G
31 stocks; $1847bn

GR Equip
60 stocks; $382bn

Coal&Uran
24 stocks; $83bn
**Consumer Staples**

- **Momentum**
- **Strength**

- **SoftDrinks**
  - 19 stocks; $535bn
- **HhidPrdct**
  - 17 stocks; $559bn
- **PersPrdct**
  - 33 stocks; $500bn
- **Tobacco**
  - 13 stocks; $585bn
- **Dist&Vnt**
  - 12 stocks; $346bn
- **Brewers**
  - 14 stocks; $464bn
- **DrugRetail**
  - 6 stocks; $89bn
- **SprCntrs**
  - 13 stocks; $539bn

- **FdRetail**
  - 36 stocks; $359bn
- **AgriProd**
  - 25 stocks; $110bn
- **PkgFdMt**
  - 17 stocks; $173bn
- **FdDistri**
  - 11 stocks; $65bn
- **HhldPrdct**
  - 17 stocks; $559bn
- **11 stocks; $65bn**
- **17 stocks; $559bn**
- **33 stocks; $500bn**
- **13 stocks; $585bn**
- **12 stocks; $346bn**
- **14 stocks; $464bn**
- **6 stocks; $89bn**
- **13 stocks; $539bn**

- **36 stocks; $359bn**
- **25 stocks; $110bn**
- **17 stocks; $173bn**
- **11 stocks; $65bn**
- **17 stocks; $559bn**
- **33 stocks; $500bn**
- **13 stocks; $585bn**
- **12 stocks; $346bn**
- **14 stocks; $464bn**
- **6 stocks; $89bn**
- **13 stocks; $539bn**

**August 20, 2018**

**Mark Steele (416) 359-4641**
Momentum

Strength

Health Care

HCService 29 stocks; $292bn

HCFacility 29 stocks; $144bn

HCDistrib 19 stocks; $116bn

HCareTec 19 stocks; $81bn

MngHCare 12 stocks; $539bn

Pharma 111 stocks; $2666bn

LiSciSrv 37 stocks; $368bn

HCSuppls 27 stocks; $167bn

HCEquip 79 stocks; $1043bn

Biotech 130 stocks; $1086bn
User Guide 1 - Definitions & Dataset

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.
User Guide 2 - Momentum

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”
- 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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<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>
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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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