Relative Strength Filter
Global Summary

Group Selection
Priced as of November 20, 2017

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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</thead>
<tbody>
<tr>
<td>Energy</td>
<td>34% / 34% / 28%</td>
<td>-1% / 1% / 7%</td>
<td></td>
</tr>
<tr>
<td>Materials</td>
<td>56% / 53% / 51%</td>
<td>-8% / -6% / 0%</td>
<td></td>
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<tr>
<td>Industrials</td>
<td>53% / 50% / 45%</td>
<td>-6% / -3% / 5%</td>
<td></td>
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<tr>
<td>CMR Disc</td>
<td>49% / 46% / 42%</td>
<td>5% / 8% / 16%</td>
<td></td>
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<tr>
<td>CMR Stap</td>
<td>34% / 32% / 26%</td>
<td>7% / 9% / 15%</td>
<td></td>
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<tr>
<td>CMR Disc</td>
<td>50% / 50% / 44%</td>
<td>-5% / -3% / 3%</td>
<td></td>
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<tr>
<td>CMR Stap</td>
<td>60% / 57% / 51%</td>
<td>9% / 13% / 19%</td>
<td></td>
</tr>
<tr>
<td>Financials</td>
<td>49% / 45% / 36%</td>
<td>-6% / -4% / 7%</td>
<td></td>
</tr>
<tr>
<td>Info Tech</td>
<td>32% / 35% / 29%</td>
<td>-6% / -7% / 4%</td>
<td></td>
</tr>
<tr>
<td>Telecom</td>
<td>51% / 45% / 35%</td>
<td>-15% / -14% / 3%</td>
<td></td>
</tr>
<tr>
<td>Telecommunications</td>
<td>43% / 41% / 33%</td>
<td>-1% / 3% / 12%</td>
<td></td>
</tr>
</tbody>
</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.
Momentum
Strength

November 20, 2017

Mark Steele (416) 359-4641

Energy

OG RfMkt
42 stocks; $490bn

Coal&Uran
24 stocks; $83bn

Int O&G
32 stocks; $167bn

OG E&P
115 stocks; $791bn

OG StTr
89 stocks; $636bn

OG Drill
14 stocks; $28bn

OG Equip
60 stocks; $266bn
Telecommunication Services

Momentum

Strength

November 20, 2017

Mark Steele (416) 359-4641

WlsTelSrv

42 stocks; $935bn

AltCar

10 stocks; $52bn

IntgTelSrv

60 stocks; $1287bn
Real Estate

November 20, 2017

Mark Steele (416) 359-4641

Momentum

Strength

REstSrv
11 stocks; $37bn

SpecREIT
21 stocks; $346bn

RetailREIT
52 stocks; $320bn

OfficeREIT
32 stocks; $165bn

IndusREIT
20 stocks; $105bn

HotelREIT
18 stocks; $59bn

ResidREIT
26 stocks; $165bn

DiversREIT
42 stocks; $208bn

REstDevl
34 stocks; $325bn

ResitDev
32 stocks; $204bn

REstOpCo
32 stocks; $204bn

REstDvAct
33 stocks; $323bn

HCareREIT
32 stocks; $103bn
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 group’s members are outperforming
2. How consistent that outperformance is
3. How the members are 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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<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>
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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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(S) = Speculative investment;
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