Group Selection

Priced as of July 16, 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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15. Utilities
16. Real Estate
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Sector Relative Strength Profiles*

**Energy**
- % Outperforming: 17% / 19% / 20%
- Reward/Risk: -1% / 0% / 1%
- Trend Psn: -1% / 0% / 1%

**Materials**
- % Outperforming: 30% / 33% / 33%
- Reward/Risk: 0% / 1% / 3%
- Trend Psn: 0% / 0% / 3%

**Industrials**
- % Outperforming: 36% / 41% / 40%
- Reward/Risk: 0% / 0% / 3%
- Trend Psn: 1% / 2% / 4%

**CMR Disc**
- % Outperforming: 33% / 36% / 35%
- Reward/Risk: -4% / -1% / 2%
- Trend Psn: 1% / 2% / 4%

**CMR Stap**
- % Outperforming: 38% / 41% / 39%
- Reward/Risk: -7% / -5% / -3%
- Trend Psn: -4% / -1% / 2%

**Health Care**
- % Outperforming: 38% / 40% / 39%
- Reward/Risk: -7% / -5% / -3%
- Trend Psn: -4% / -1% / 2%

**Financials**
- % Outperforming: 33% / 37% / 37%
- Reward/Risk: -1% / 0% / 2%
- Trend Psn: -1% / 0% / 2%

**Info Tech**
- % Outperforming: 52% / 55% / 53%
- Reward/Risk: -3% / -1% / -1%
- Trend Psn: -3% / -1% / -1%

**Comm Srv**
- % Outperforming: 36% / 40% / 38%
- Reward/Risk: -3% / -1% / 3%
- Trend Psn: -3% / -1% / 3%

**Utilities**
- % Outperforming: 42% / 48% / 48%
- Reward/Risk: -2% / -1% / 2%
- Trend Psn: -2% / -1% / 2%

**Real Estate**
- % Outperforming: 42% / 52% / 49%
- Reward/Risk: -7% / -6% / -6%
- Trend Psn: -7% / -6% / -6%

*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
### Strength Changes Last Session

<table>
<thead>
<tr>
<th>Momentum</th>
<th>Strength</th>
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<tbody>
<tr>
<td>Silver</td>
<td>OG RfMkt</td>
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<tr>
<td>ResidREIT</td>
<td>Railroads</td>
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<td>ITConsult</td>
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<td>FnlExchDt</td>
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<td>AirprtSrv</td>
<td>ElecUtil</td>
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<td>AsstMgmt</td>
<td>DvSpSrv</td>
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<tr>
<td>Brewers</td>
<td>Marine</td>
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<tr>
<td>Dist&amp;Vnt</td>
<td>Educat</td>
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<tr>
<td>CstrMat</td>
<td>EicCmpEq</td>
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</tbody>
</table>

Mark Steele (416) 359-4641
Consumer Staples

July 16, 2019

Mark Steele (416) 359-4641

[Diagram showing momentum and strength for various sectors and industries with specific numbers of stocks and market values]
Momentum

July 16, 2019

Mark Steele (416) 359-4641

Health Care

<table>
<thead>
<tr>
<th>Sector</th>
<th>Stocks</th>
<th>Market Cap</th>
</tr>
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<tbody>
<tr>
<td>MngHCare</td>
<td>16</td>
<td>$164bn</td>
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<tr>
<td>HCSupplies</td>
<td>36</td>
<td>$124bn</td>
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<tr>
<td>HCEquip</td>
<td>34</td>
<td>$182bn</td>
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<tr>
<td>HCFacility</td>
<td>24</td>
<td>$286bn</td>
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<td>HCDistrib</td>
<td>16</td>
<td>$109bn</td>
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<td>HCareTec</td>
<td>17</td>
<td>$94bn</td>
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<tr>
<td>Pharma</td>
<td>130</td>
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<tr>
<td>Biotech</td>
<td>127</td>
<td>$94bn</td>
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<tr>
<td>LiSciSrv</td>
<td>32</td>
<td>$414bn</td>
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<tr>
<td>Biotech</td>
<td>127</td>
<td>$94bn</td>
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</table>

Health Care

BMO Capital Markets

Mark Steele (416) 359-4641
# Information Technology

**July 16, 2019**

<table>
<thead>
<tr>
<th>Sector</th>
<th>Momentum</th>
<th>Strength</th>
<th>Stocks</th>
<th>Value</th>
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<td>50</td>
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<td>ITConsult</td>
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<td>47</td>
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<td>Semi</td>
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<td>ApplicSwr</td>
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<td>SystmSwr</td>
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<td>39</td>
<td>$1514bn</td>
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<tr>
<td>SemiEqp</td>
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<td>43</td>
<td>$2288bn</td>
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<tr>
<td>ElecComp</td>
<td></td>
<td></td>
<td>38</td>
<td>$280bn</td>
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<tr>
<td>TechDist</td>
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<td>14</td>
<td>$58bn</td>
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<tr>
<td>InetSrv&amp;Ln</td>
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<td>15</td>
<td>$137bn</td>
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<tr>
<td>ElecInstr</td>
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<td>42</td>
<td>$365bn</td>
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<tr>
<td>HdwrSt&amp;P</td>
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<td>40</td>
<td>$1492bn</td>
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<tr>
<td>EMS</td>
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<td>19</td>
<td>$144bn</td>
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</tbody>
</table>

**ComEquip**

41 stocks; $456bn

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

**BMO Capital Markets**

**41 stocks; $456bn**

**43 stocks; $2288bn**

**39 stocks; $1550bn**

**39 stocks; $1514bn**

**38 stocks; $280bn**

**14 stocks; $58bn**

**15 stocks; $137bn**

**42 stocks; $365bn**

**40 stocks; $1492bn**

**19 stocks; $144bn**
Telecommunication Services

July 16, 2019

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Mov&Ent
27 stocks; $573bn

IntMeSer
43 stocks; $1548bn

WlsTelSrv
43 stocks; $948bn

IntHmEnt
23 stocks; $250bn

AltCar
9 stocks; $40bn

Cabl&Sat
23 stocks; $428bn

Advert
17 stocks; $106bn

IntgTelSrv
55 stocks; $1329bn

Broadcast
26 stocks; $89bn

Publishing
13 stocks; $42bn
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 they 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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<tr>
<td>Buy</td>
<td>Outperform</td>
<td>43.2%</td>
<td>22.8%</td>
<td>57.4%</td>
<td>44.1%</td>
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<td>Hold</td>
<td>Market Perform</td>
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<td>13.1%</td>
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<td>52.6%</td>
<td>41.1%</td>
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<tr>
<td>Sell</td>
<td>Underperform</td>
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<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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Und = Underperform - Forecast to underperform the analyst’s coverage universe on a total return basis;
(S) = Speculative investment;
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