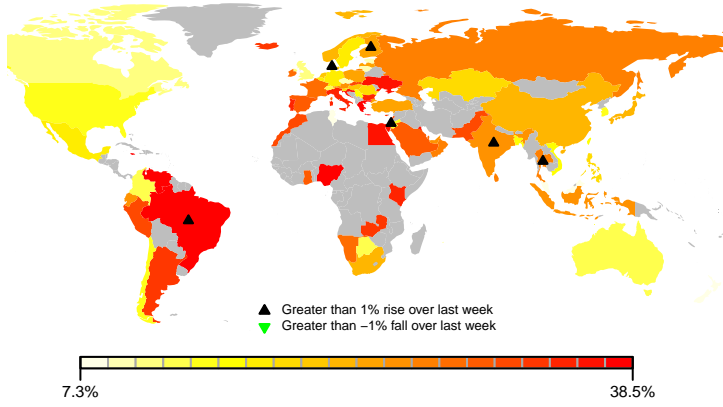
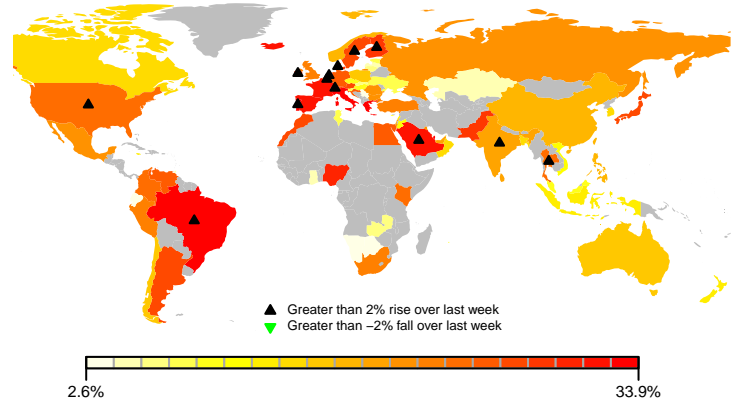


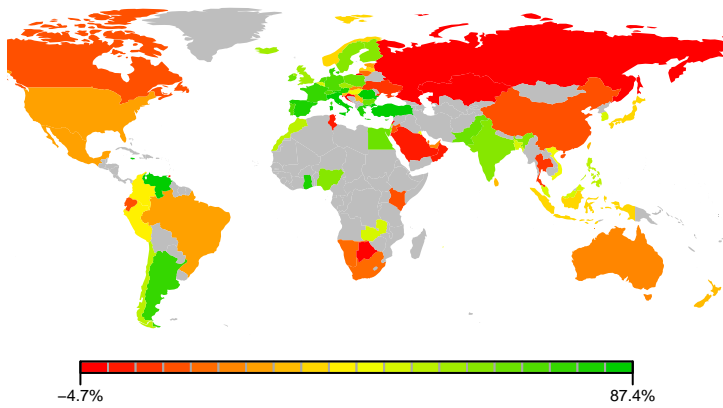
**1. Global volatility hotspots**



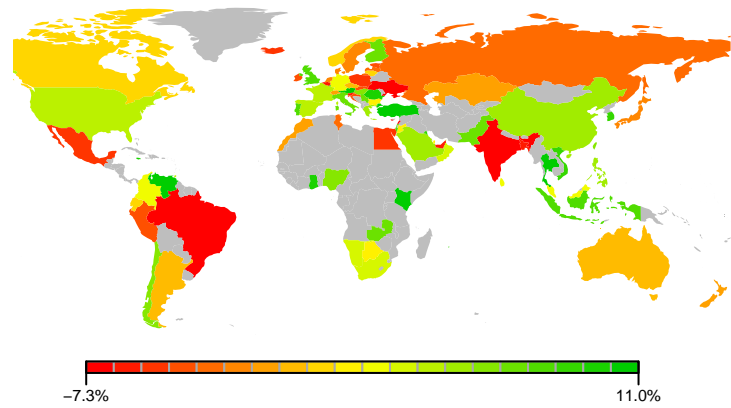
**2. Global correlation hotspots**



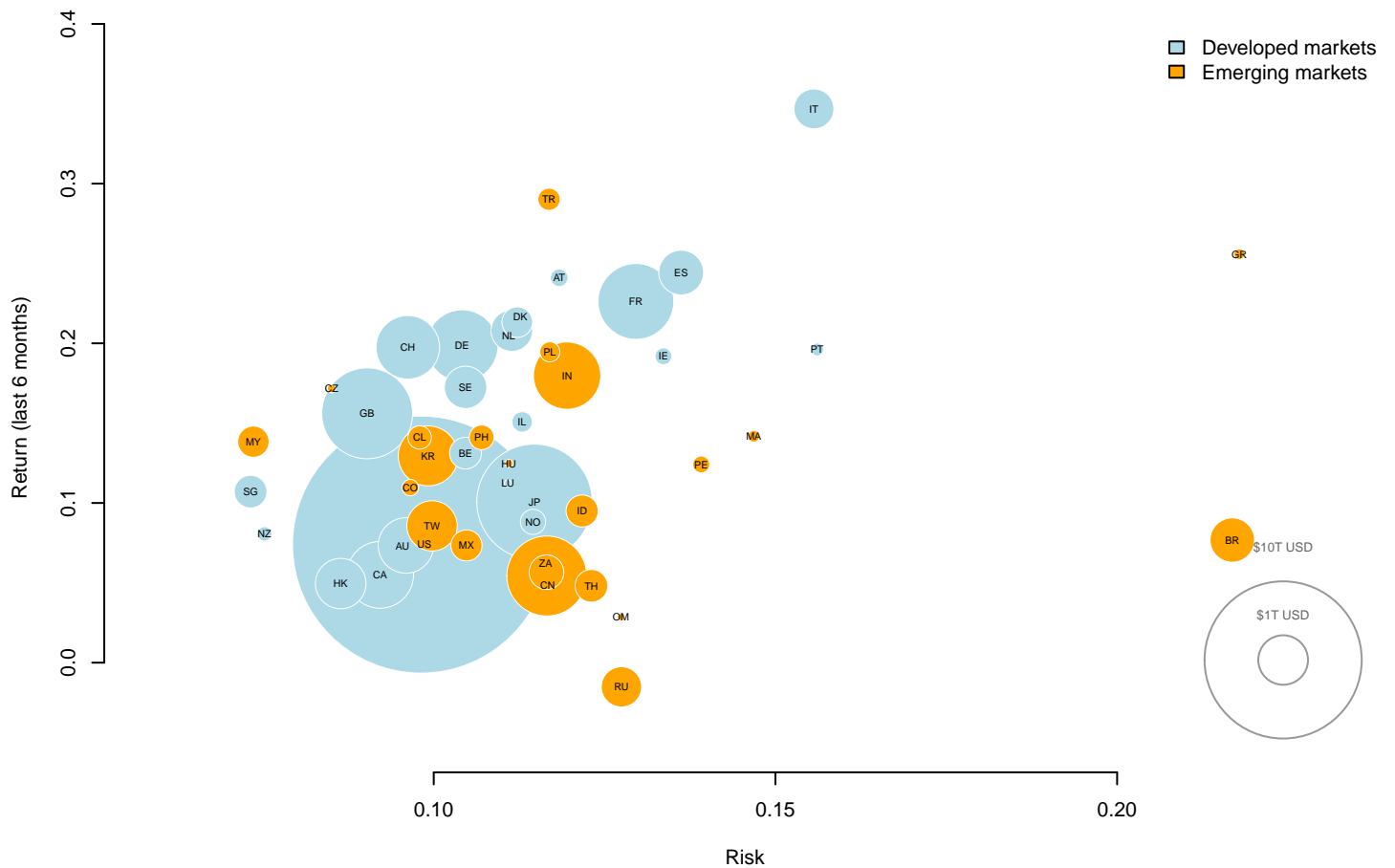
**3. Global market returns (6 months)**



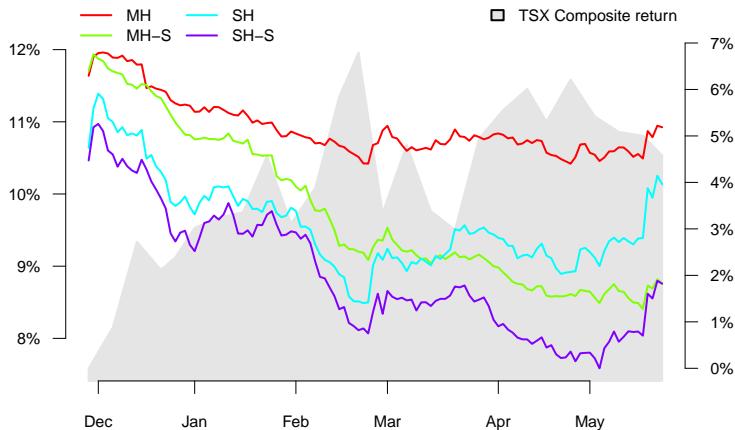
**4. Global market returns (1 week)**



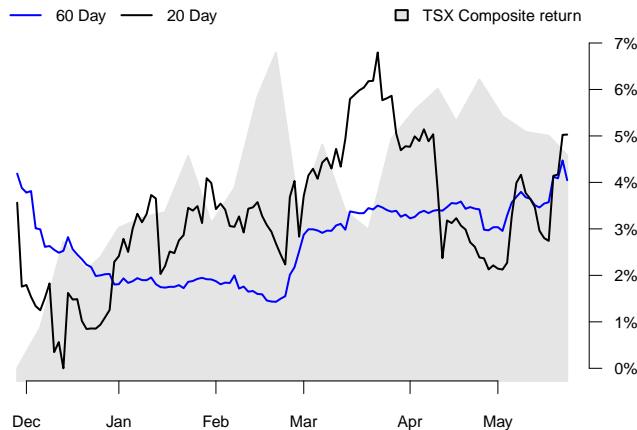
**5. Global Market Risk and Return**



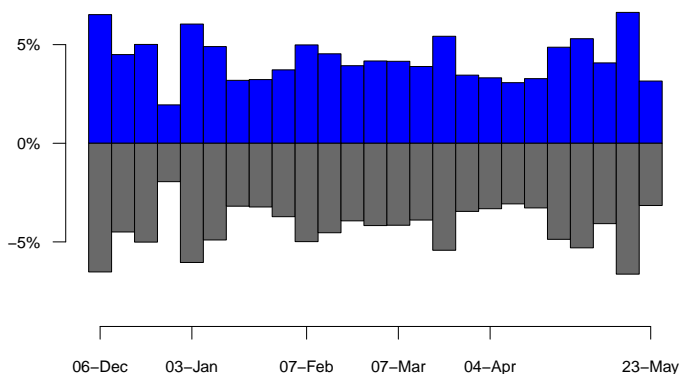
### 6. TSX Composite predicted risk



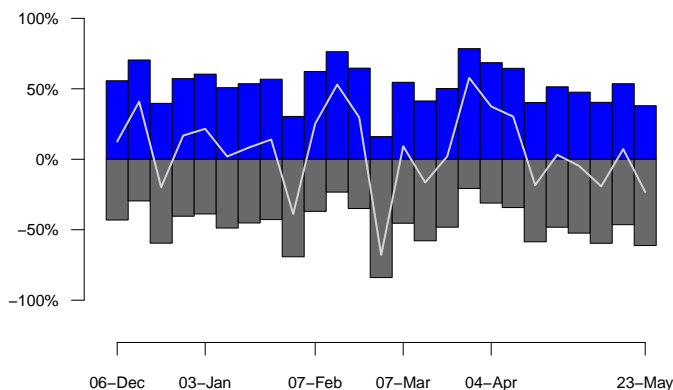
### 7. Rolling average asset correlations



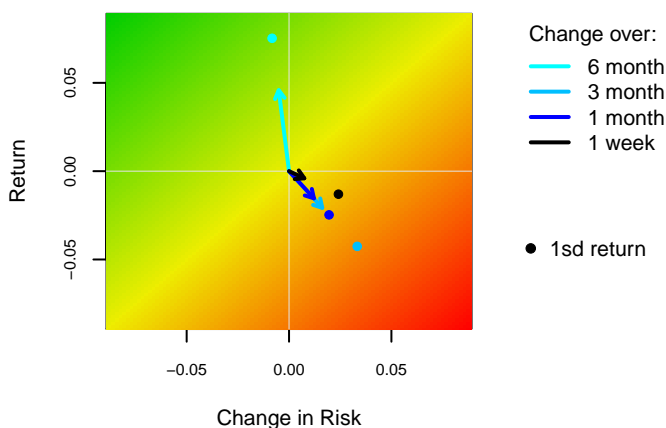
### 8. Weekly asset return dispersion



### 9. Weekly asset return proportion up/down



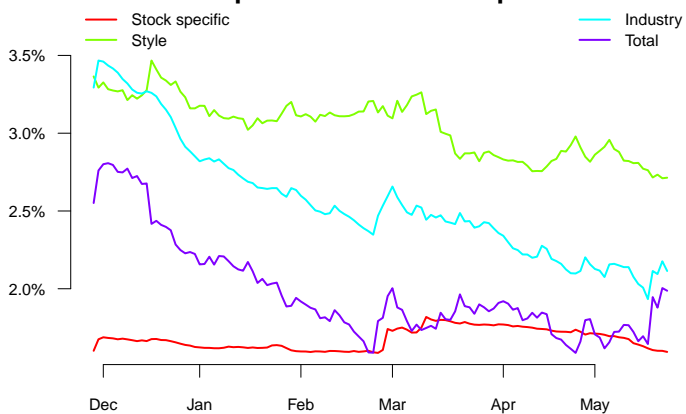
### 10. Risk Watch – TSX Composite



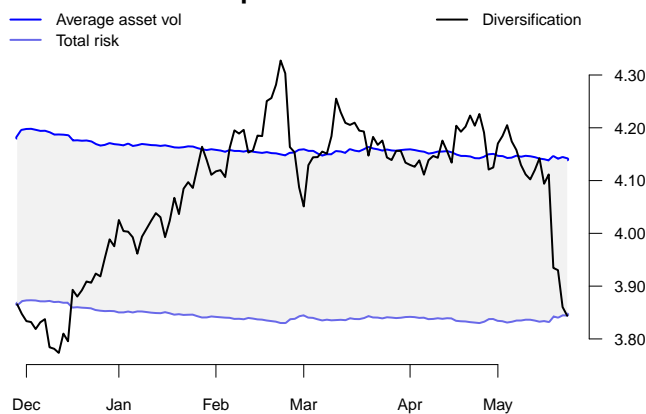
### 11. Risk change decomposition

|                           | 1 week | 1 month | 3 months | 6 months |
|---------------------------|--------|---------|----------|----------|
| <b>Factor level</b>       |        |         |          |          |
| Initial risk              | 9.39   | 8.92    | 8.51     | 10.64    |
| Portfolio composition     | 0.00   | -0.03   | -0.03    | 0.00     |
| Stock characteristics     | 0.12   | 0.33    | 0.58     | 0.72     |
| Stock specific volatility | -0.01  | -0.02   | -0.01    | -0.03    |
| Factor volatility         | 0.43   | 0.91    | 0.91     | -0.76    |
| Factor correlations       | 0.21   | 0.02    | 0.16     | -0.42    |
| Total change              | 0.75   | 1.22    | 1.62     | -0.50    |
| Final risk                | 10.14  | 10.14   | 10.14    | 10.14    |
| <b>Stock level</b>        |        |         |          |          |
| Initial risk              | 9.39   | 8.92    | 8.51     | 10.64    |
| Portfolio composition     | 0.00   | -0.03   | -0.03    | 0.00     |
| Stock volatility          | 0.18   | 0.65    | 0.60     | -0.78    |
| Stock correlations        | 0.57   | 0.60    | 1.04     | 0.28     |
| Total change              | 0.75   | 1.22    | 1.62     | -0.50    |
| Final risk                | 10.14  | 10.14   | 10.14    | 10.14    |

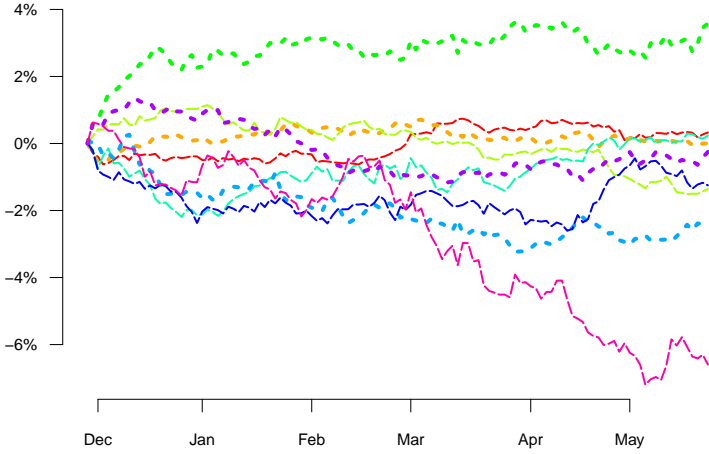
### 12. Components of TSX Composite risk



### 13. TSX Composite diversification



### 14. Style factor performance

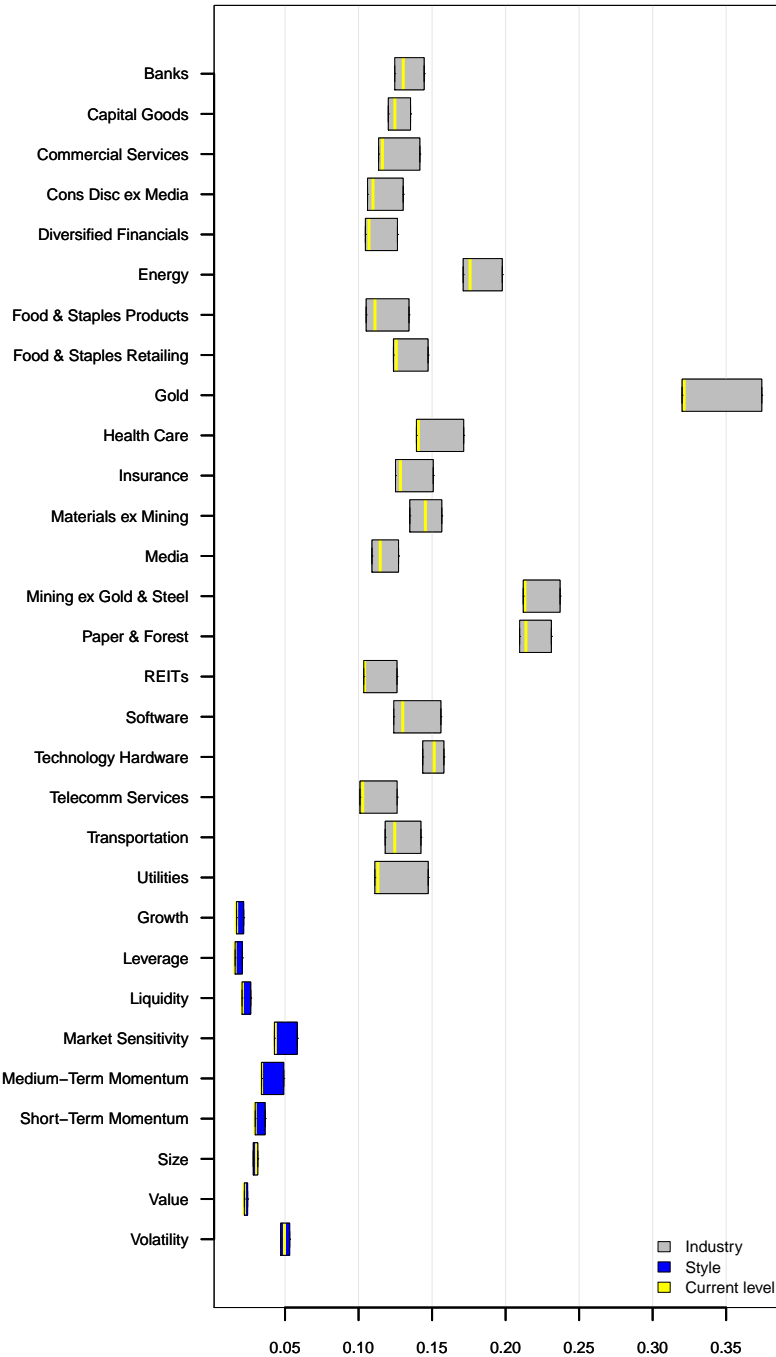


### 15. Style factor returns

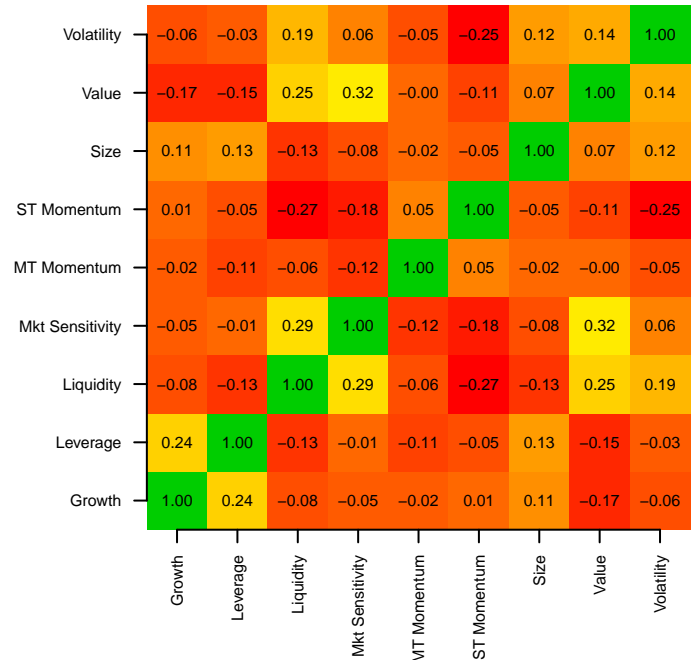
|                 | 1w    | 1m    | 3m    | 6m    |
|-----------------|-------|-------|-------|-------|
| Growth          | 0.00  | -0.22 | 0.76  | 0.33  |
| Leverage        | -0.06 | 0.11  | -0.31 | 0.00  |
| Liquidity       | 0.12  | -1.18 | -1.79 | -1.36 |
| Mkt Sensitivity | 0.50  | 0.91  | 0.89  | 3.58  |
| MT Momentum     | 0.18  | 0.28  | 0.94  | 0.24  |
| ST Momentum     | 0.32  | 0.18  | -0.39 | -2.30 |
| Size            | -0.45 | 0.49  | 0.31  | -1.25 |
| Value           | 0.24  | 0.53  | 0.44  | -0.25 |
| Volatility      | -0.87 | -0.86 | -6.12 | -6.59 |



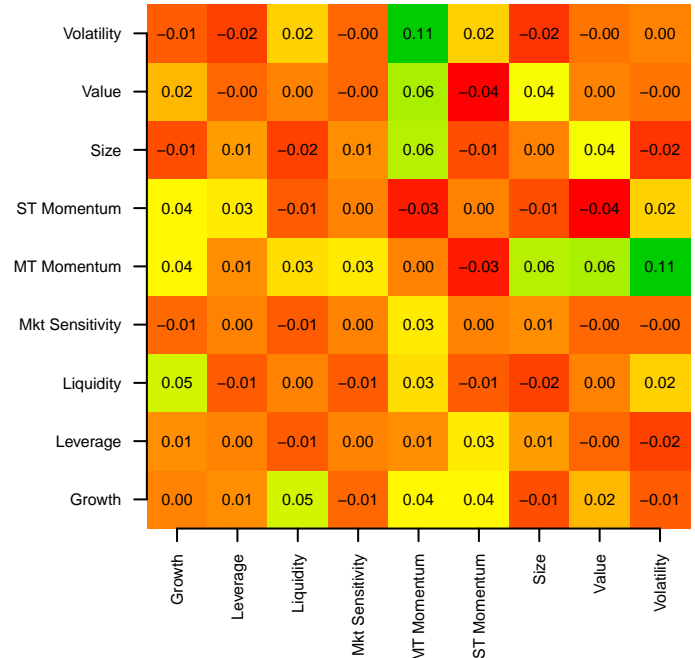
### 16. Factor volatility range (6 month)



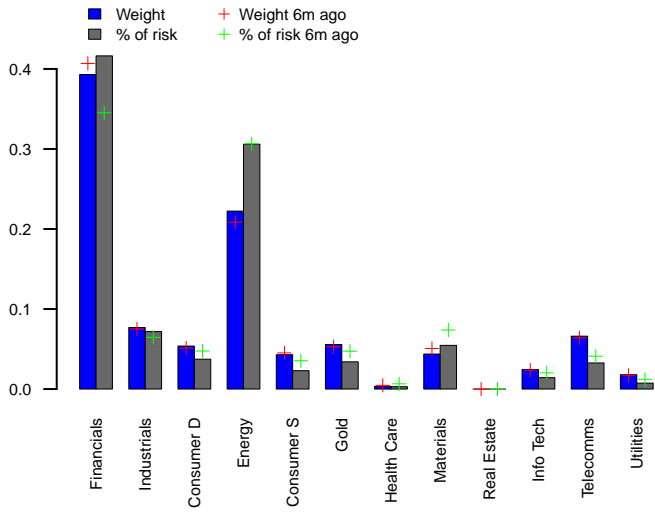
### 17. Style correlations



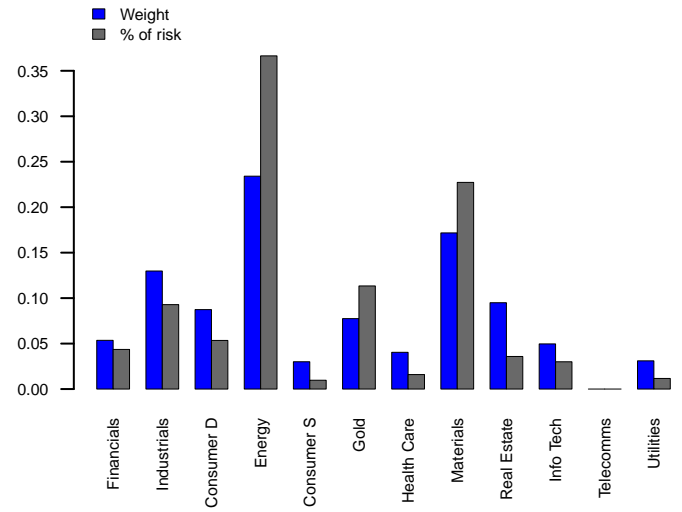
### 18. Change in style correlations (6 month)



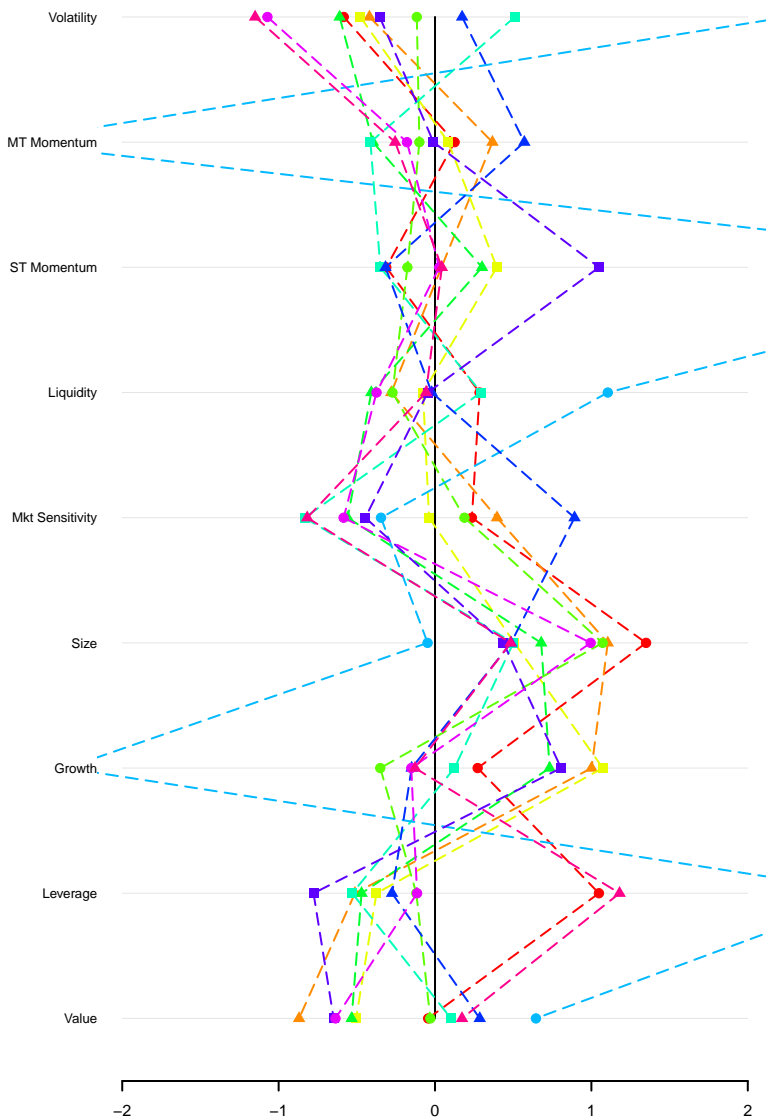
19. TSX 60 sector weights and % of risk



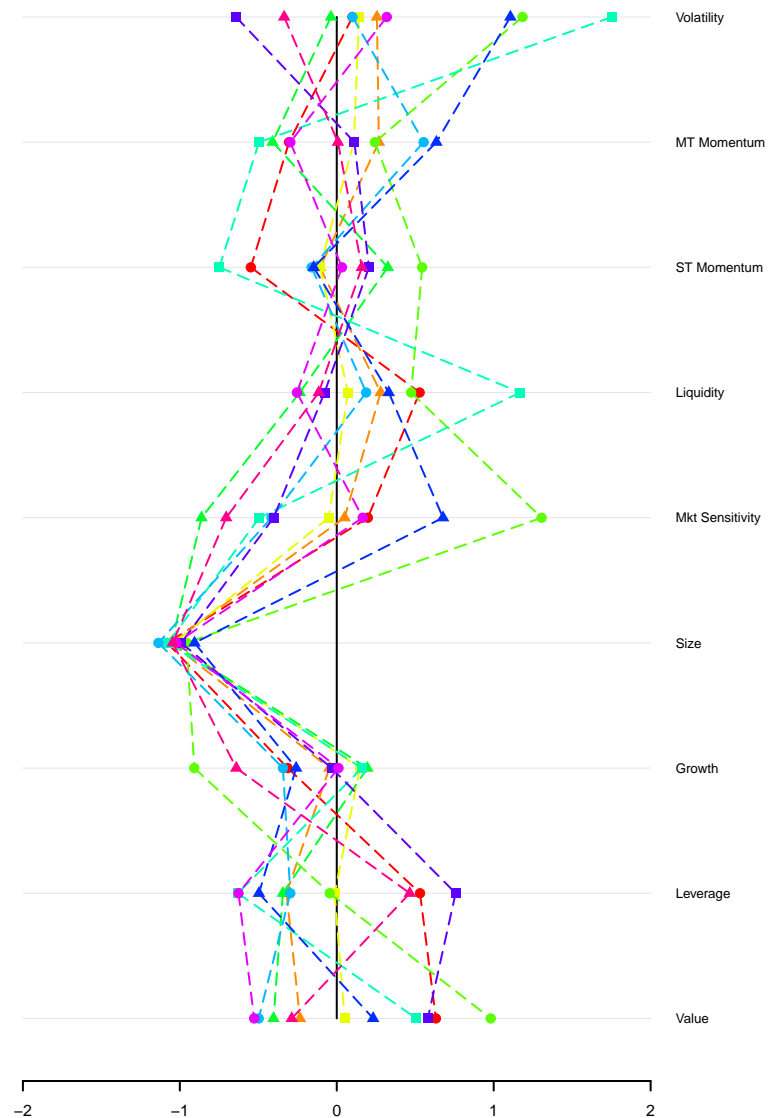
20. TSX SmallCap sector weights and % of risk



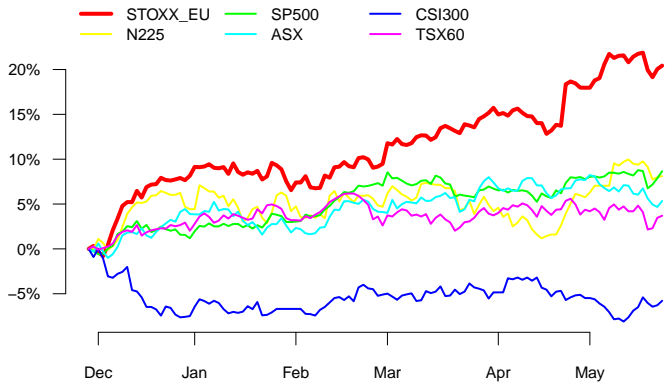
21. TSX 60 sector style exposures



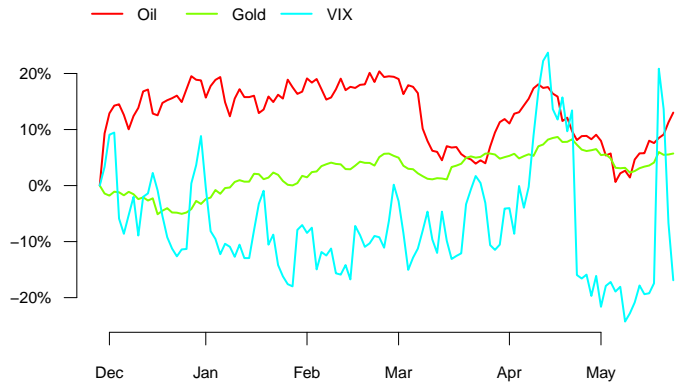
22. TSX SmallCap sector style exposures



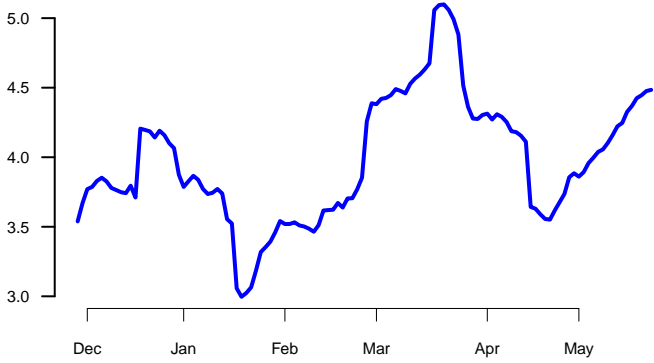
### 23. Returns for popular benchmarks



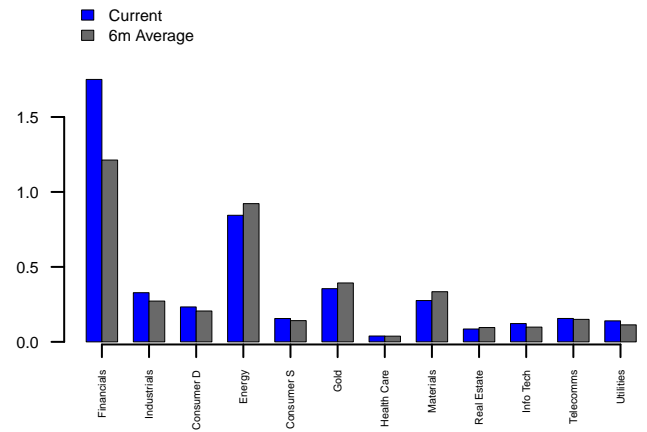
### 24. Returns for popular indicators



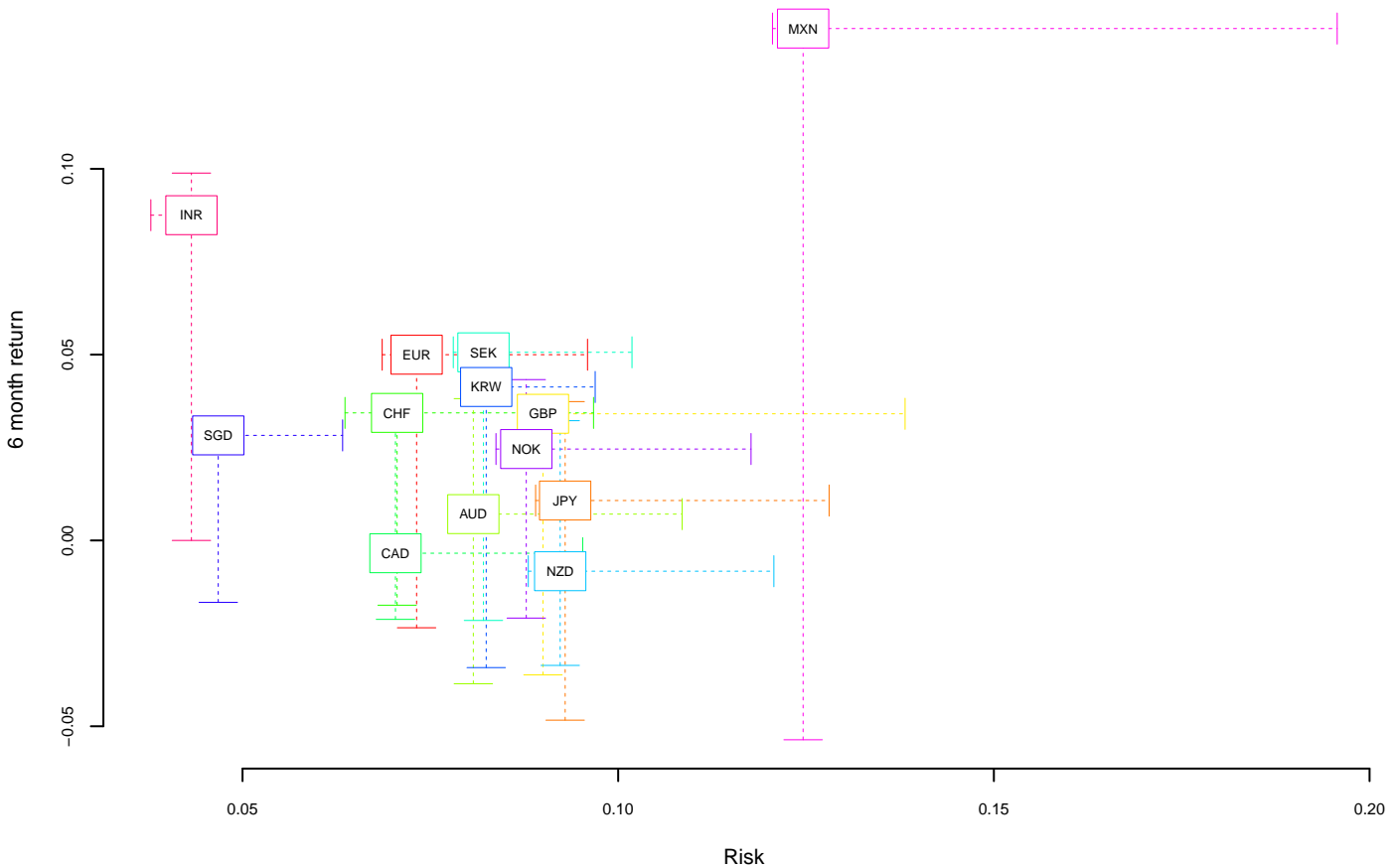
### 25. TSX Composite rolling ADV (USD billions)



### 26. TSX Composite ADV by sector



### 27. Currency risk and return vs USD



## Explanatory notes

### 1. Global volatility hotspots

Volatility for global markets measured by the Axioma World short horizon fundamental model based on Axioma model estimation universe (USD perspective).

### 2. Global correlation hotspots

Average asset correlation for global markets measured using the Axioma World short horizon fundamental model based on Axioma model estimation universe (USD perspective).

### 3. Global market returns (6 months)

Total market return in local currency over the last 6 months based on the Axioma estimation universe.

### 4. Global market returns (1 week)

Total market return in local currency over the last week based on the Axioma estimation universe.

### 5. Global market risk and return

Total return over the last 6 months vs current market volatility estimated by Axioma short horizon world model, based on the Axioma estimation universe. Circle size represents market cap.

### 6. TSX Composite predicted risk

Forecast risk estimate for the TSX Composite measured by the four Axioma Canadian model variants. MH = medium horizon, SH = short, -S = statistical model.

Right hand axis shows TSX Composite return.

### 7. Rolling average asset correlations

Average correlation amongst TSX Composite stocks over trailing 20 and 60 day window. Right hand axis shows TSX Composite return.

### 8. Weekly asset return dispersion

Cross sectional volatility of weekly asset returns over TSX Composite stocks.

### 9. Weekly asset return proportion up/down

Weekly count of number of stocks with positive returns vs number of stocks with negative returns for TSX Composite stocks.

### 10. Risk watch – TSX Composite

Change in TSX Composite risk vs total return over indicated period. Risk is measured by Axioma short horizon Canadian model. A one standard deviation move based on risk forecast at the time is indicated by the colored dot.

### 11. Risk change decomposition

Breakdown of the causes of change in TSX Composite risk over 1 week, 1 month, 3 months and 6 months. For more details contact your Axioma representative.

### 12. Components of TSX Composite risk

TSX Composite stock specific risk and risk from industry, measured daily over the last 6 months using Axioma medium horizon model. Does not include covariance between industry, style, sector, country or market.

### 13. TSX Composite diversification

Diversification is measured as the ratio of weighted average asset variance to total TSX Composite variance, measured by the Axioma medium horizon Canadian model.

### 14. Style factor performance

Cumulative performance of the Axioma Canadian fundamental model style factors over the last 6 months

### 15. Style factor returns

Return of the Axioma Canadian fundamental model style factors over the last 1 week, 1 month, 3 months and 6 months.

### 16. Factor volatility range

The range in volatility for style and industry factors in the Canadian medium horizon fundamental model over the last 6 months. Current volatility is indicated by the yellow line.

### 17. Style correlations

Correlations between style factors from the Canadian medium horizon fundamental model

### 18. Change in style correlations (6 month)

The change in correlation between style factors from the Canadian medium horizon fundamental model over the last 6 months.

### 19. TSX Composite sector weights and % of risk

The weight and contribution to risk of top level sectors in the TSX Composite index. Risk is measured using the Axioma medium horizon fundamental model.

### 20. TSX Small Cap country weights and % of risk

The weight and contribution to risk of countries in the TSX Small Cap index. Risk is measured using the Axioma medium horizon fundamental model.

### 21. TSX Composite sector style exposures

The weighted average exposure to Axioma Canadian style factors for top level sectors in the TSX Composite index.

### 22. TSX Small Cap country style exposures

The weighted average exposure to Axioma Canadian style factors for countries in the TSX Small Cap index.

### 23. Returns for popular benchmarks

Cumulative returns in local currency over the last 6 months for popular global equity benchmarks as measured by a corresponding ETF. Each of these benchmarks are registered trademarks of their respective owners.

### 24. Returns for popular indicators

Cumulative returns over the last 6 months for WTI, spot gold and VIX. VIX is a registered trademark of the Chicago Board Options Exchange.

### 25. TSX Composite rolling ADV (USD billions)

Daily sum of 20-day average USD daily trading value for assets in TSX Composite.

### 26. TSX Composite ADV by sector

Current and 6 month average 20-day average USD daily trading value for assets in TSX Composite, split by top level sector.

### 27. Currency risk and return vs USD

Currency volatility and 6-month return vs USD. Dotted lines show range in return and volatility over the last 6 months.

## Country legend

AT=Austria,AU=Australia,BE=Belgium,BR=Brazil,CA=Canada,CH=Switzerland,CL=Chile,CN=China,CO=Colombia,CZ=Czech Republic,DE=Germany,DK=Denmark,ES=Spain,FR=France  
 GB=United Kingdom,GR=Greece,HK=Hong Kong,HU=Hungary,ID=Indonesia,IE=Ireland,IL=Israel,IN=India,IT=Italy,JP=Japan,KR=Korea,LU=Luxembourg,MA=Morocco,MX=Mexico  
 MY=Malaysia,NL=Netherlands,NO=Norway,NZ=New Zealand,OM=Oman,PE=Peru,PH=Philippines,PL=Poland,PT=Portugal,RU=Russian Federation,SE=Sweden,SG=Singapore  
 TH=Thailand,TR=Turkey,TW=Taiwan,US=United States,ZA=South Africa

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