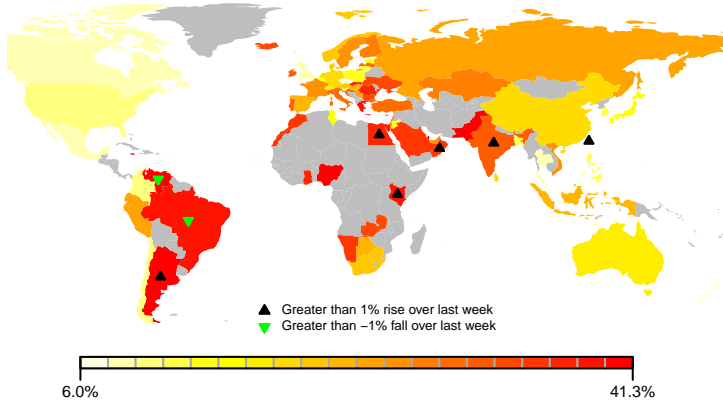
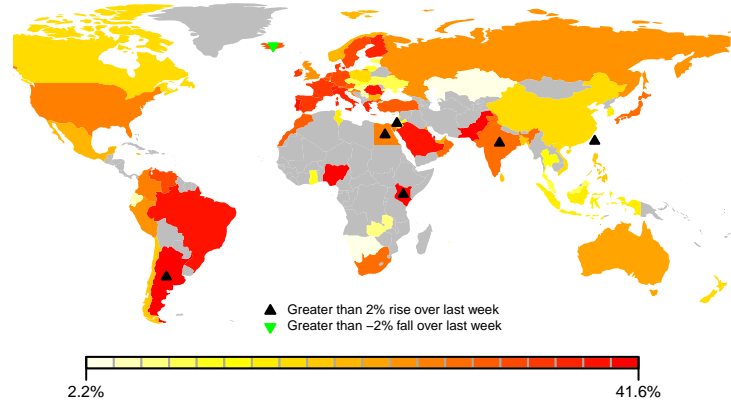


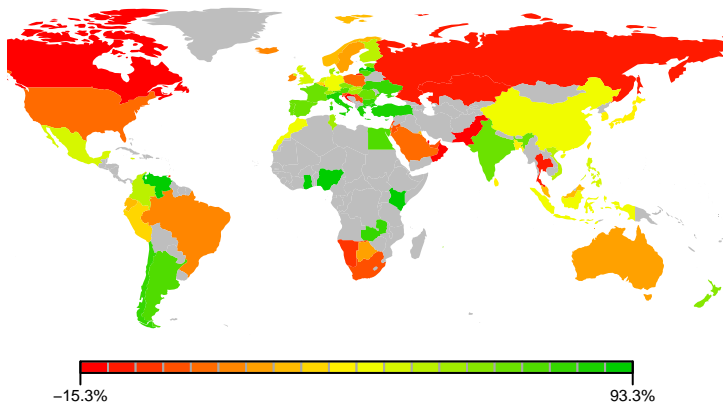
1. Global volatility hotspots



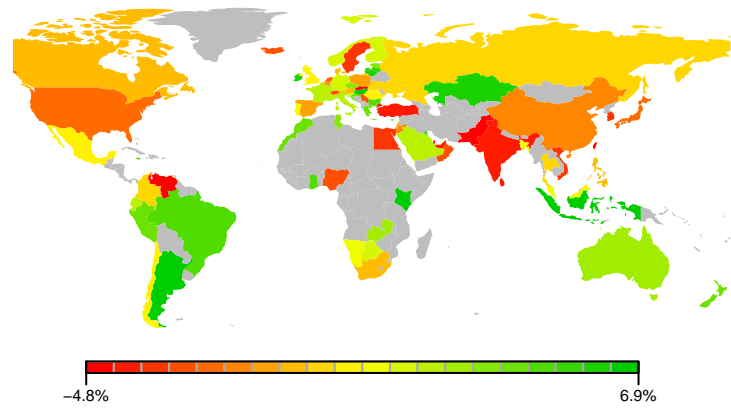
2. Global correlation hotspots



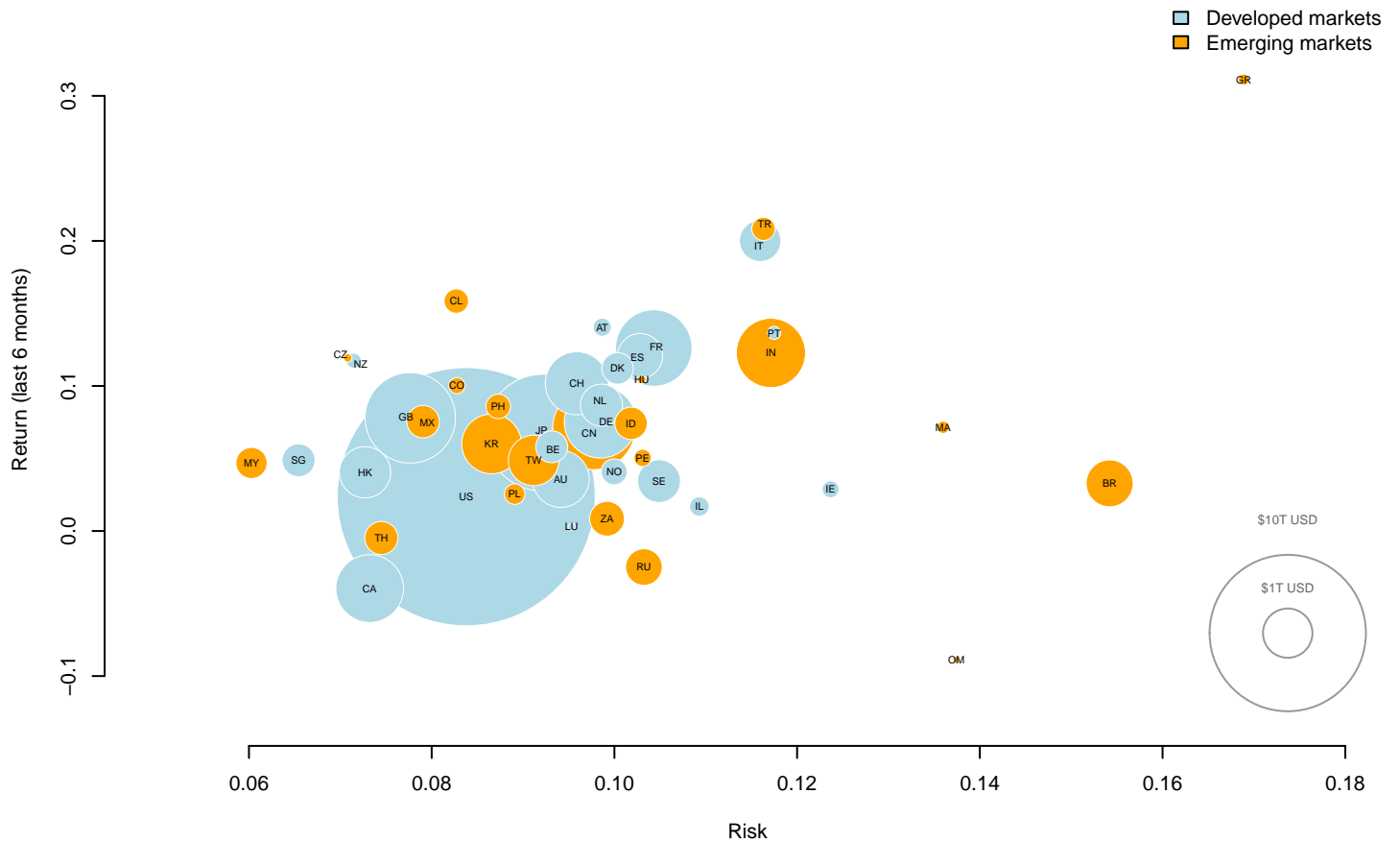
3. Global market returns (6 months)



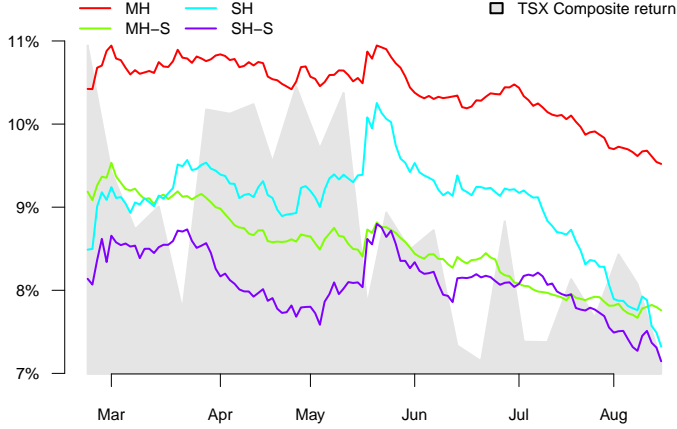
4. Global market returns (1 week)



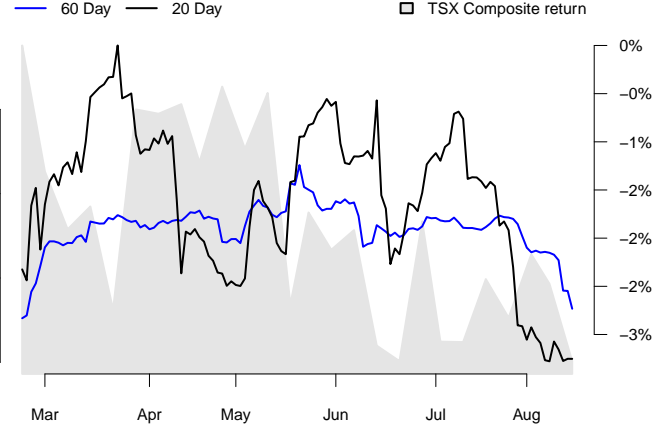
5. Global Market Risk and Return



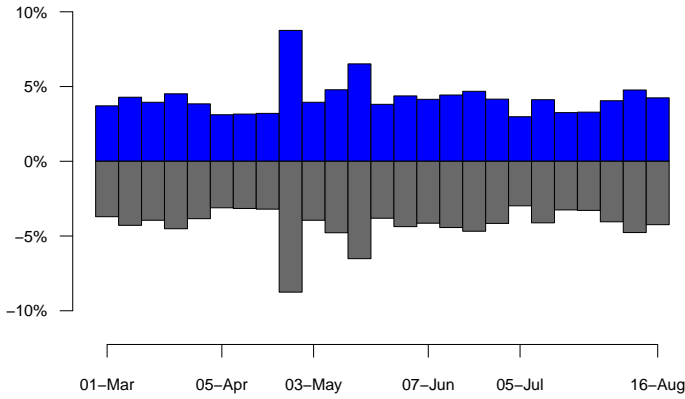
6. TSX Composite predicted risk



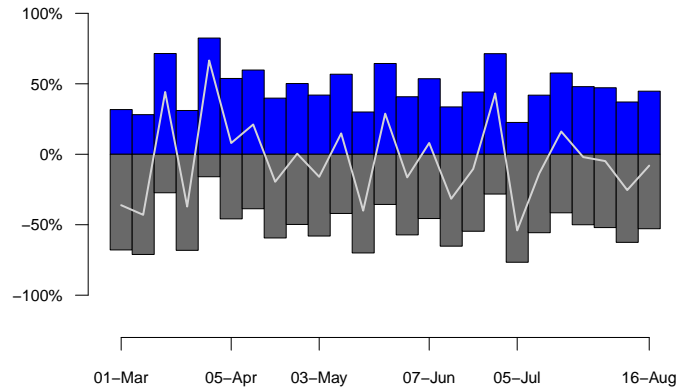
7. Rolling average asset correlations



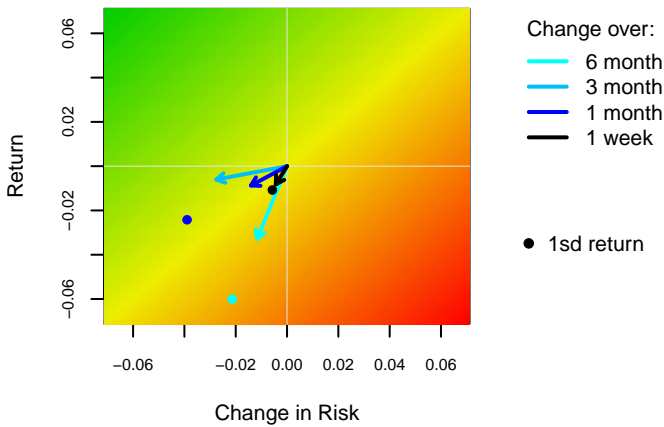
8. Weekly asset return dispersion



9. Weekly asset return proportion up/down



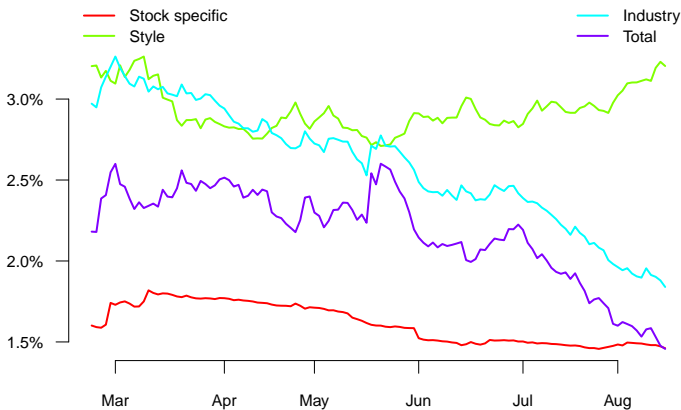
10. Risk Watch – TSX Composite



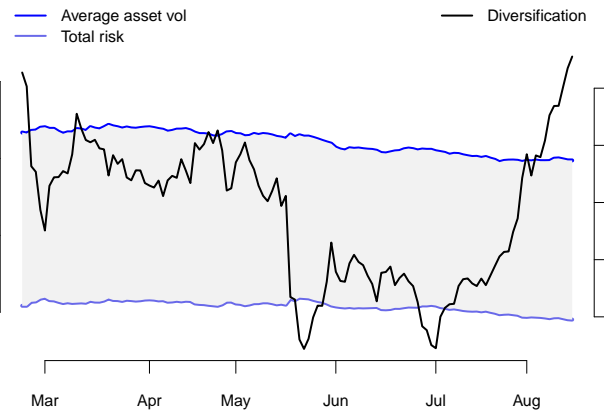
11. Risk change decomposition

	1 week	1 month	3 months	6 months
Factor level				
Initial risk	7.76	8.73	10.08	8.49
Portfolio composition	-0.05	-0.04	-0.03	-0.13
Stock characteristics	-0.03	-0.15	-0.25	0.37
Stock specific volatility	0.00	0.00	-0.03	-0.04
Factor volatility	-0.27	-1.00	-2.10	-1.14
Factor correlations	-0.08	-0.21	-0.35	-0.23
Total change	-0.44	-1.41	-2.76	-1.17
Final risk	7.32	7.32	7.32	7.32
Stock level				
Initial risk	7.76	8.73	10.08	8.49
Portfolio composition	-0.05	-0.04	-0.03	-0.13
Stock volatility	-0.06	-0.40	-1.26	-0.65
Stock correlations	-0.33	-0.96	-1.47	-0.38
Total change	-0.44	-1.41	-2.76	-1.17
Final risk	7.32	7.32	7.32	7.32

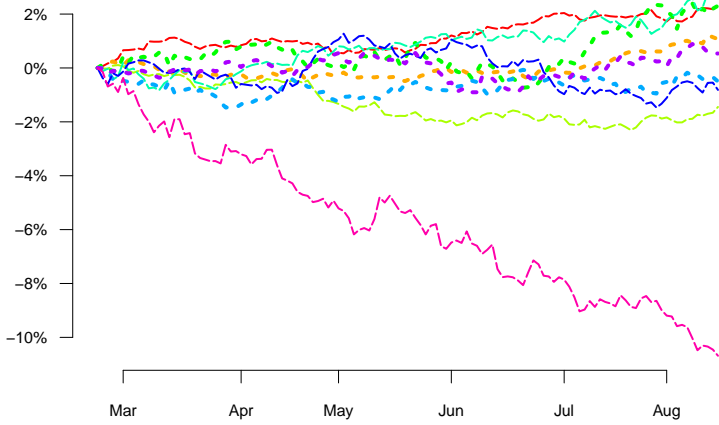
12. Components of TSX Composite risk



13. TSX Composite diversification



14. Style factor performance

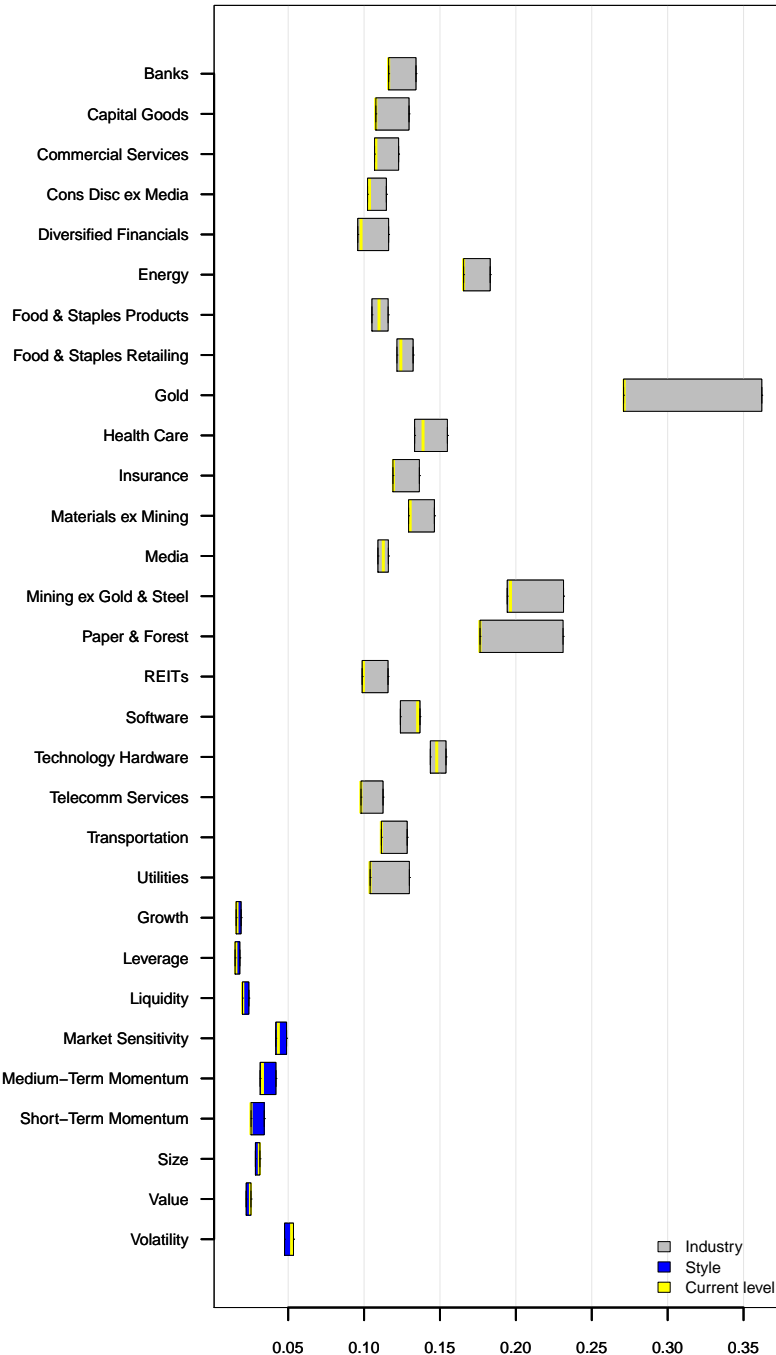


15. Style factor returns

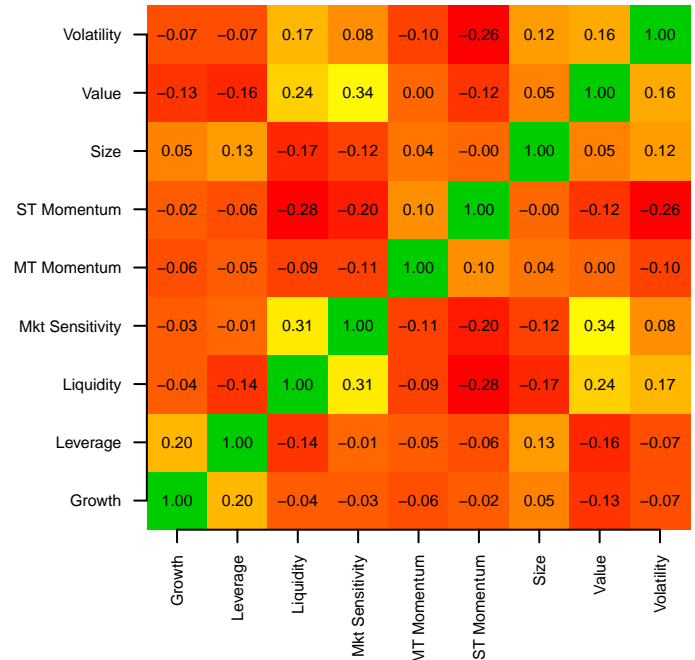
	1w	1m	3m	6m
Growth	0.36	0.34	1.53	2.27
Leverage	0.14	0.81	1.40	1.07
Liquidity	0.45	0.75	0.35	-1.45
Mkt Sensitivity	-0.09	0.96	1.80	2.31
MT Momentum	0.08	0.97	1.72	2.67
ST Momentum	-0.21	0.12	0.14	-0.50
Size	-0.27	0.02	-1.35	-0.82
Value	-0.35	0.34	0.26	0.54
Volatility	-0.73	-2.13	-5.95	-10.68



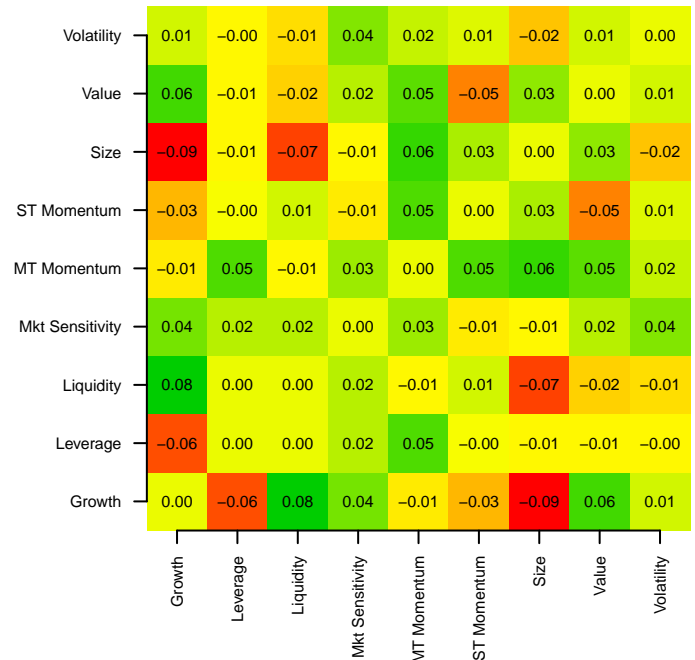
16. Factor volatility range (6 month)



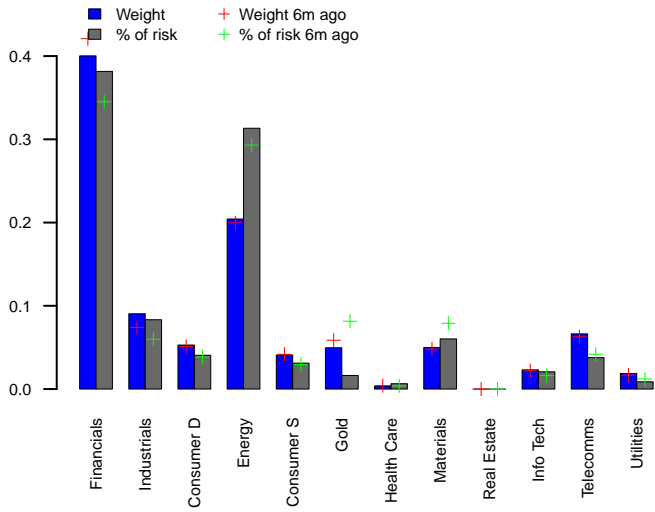
17. Style correlations



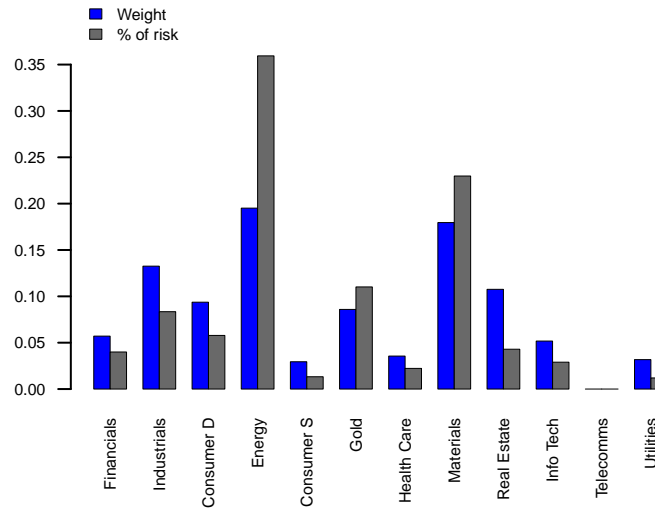
18. Change in style correlations (6 month)



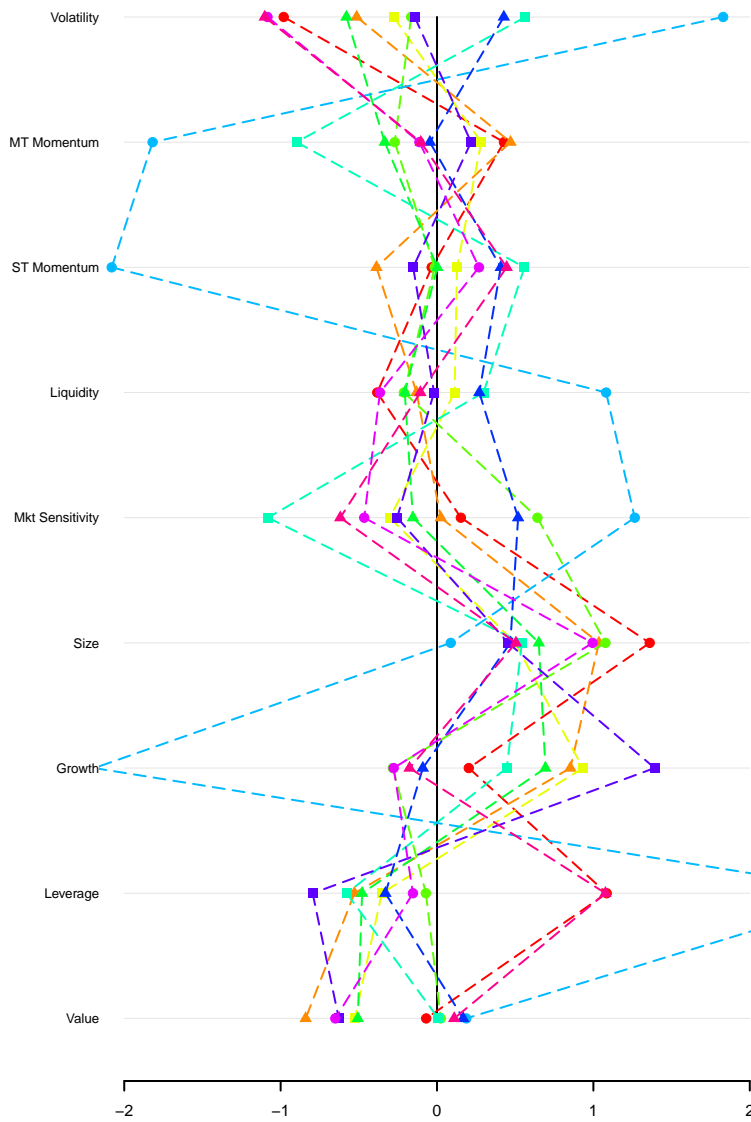
19. TSX 60 sector weights and % of risk



20. TSX SmallCap sector weights and % of risk

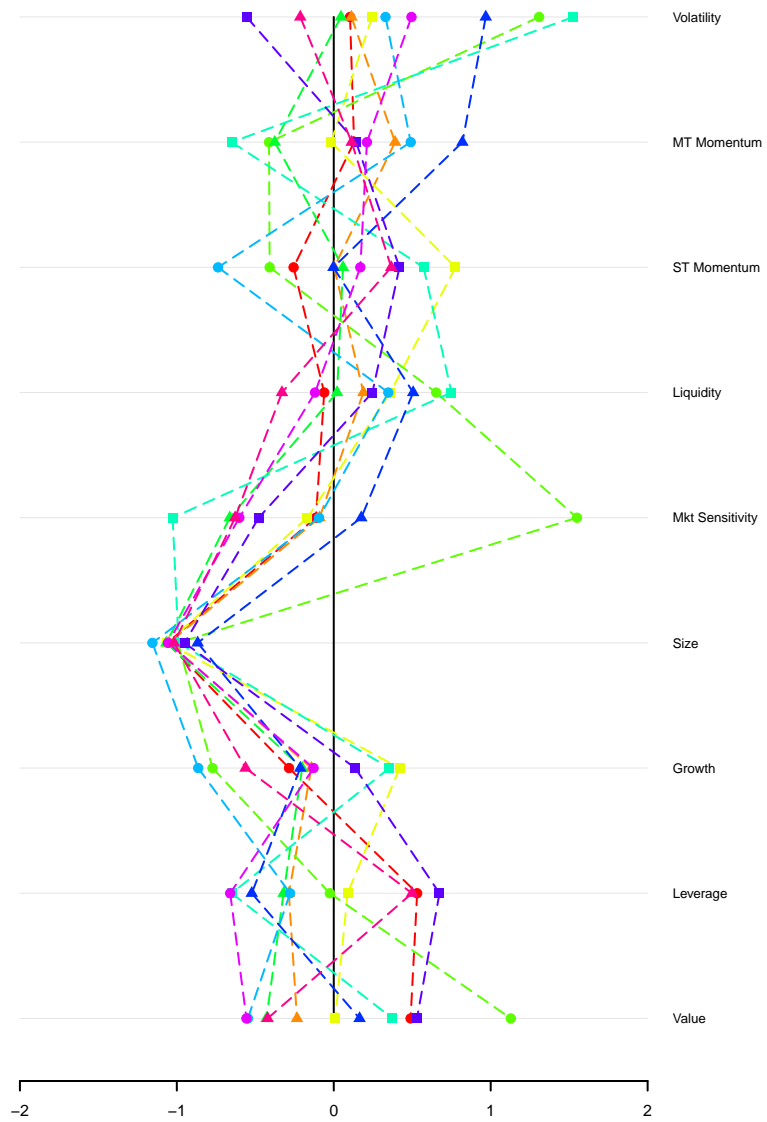


21. TSX 60 sector style exposures



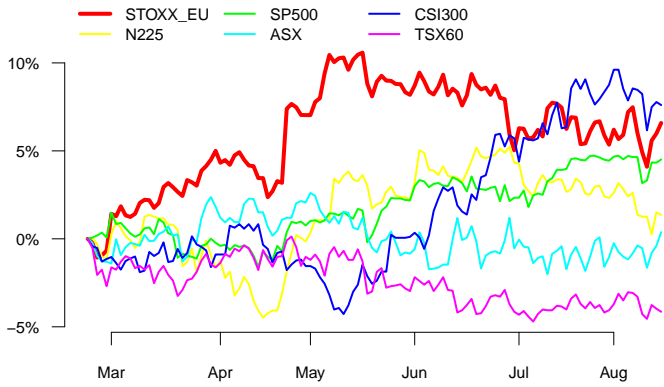
● Financials ● Energy ● Health Care ● Telecomms
 ▲ Industrials ▲ Consumer S ▲ Materials ▲ Utilities
 ● Consumer D ● Gold ● Info Tech

22. TSX SmallCap sector style exposures

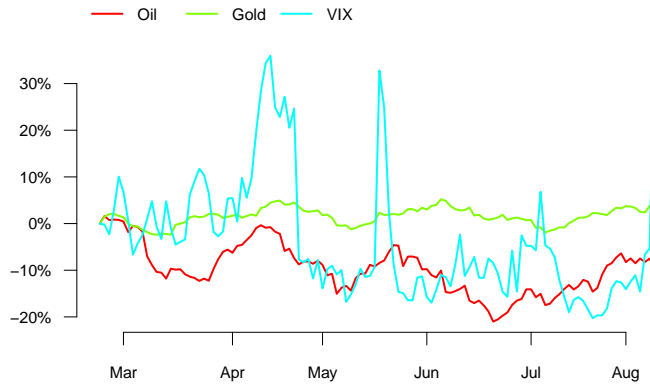


● Financials ● Energy ● Health Care ● Info Tech
 ▲ Industrials ▲ Consumer S ▲ Materials ▲ Utilities
 ● Consumer D ● Gold ● Real Estate

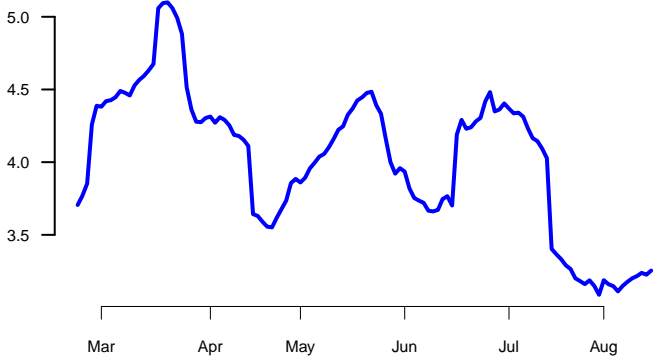
23. Returns for popular benchmarks



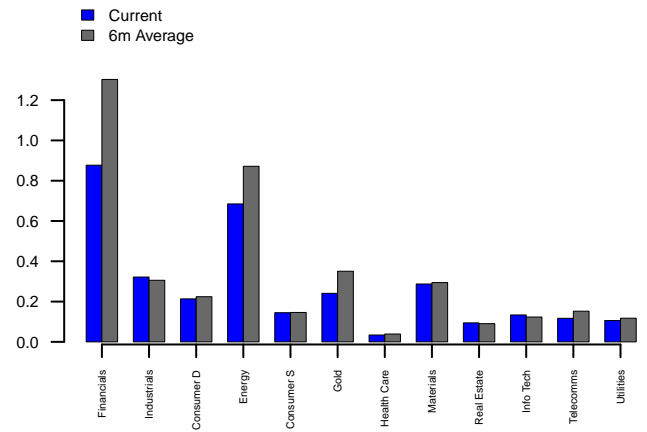
24. Returns for popular indicators



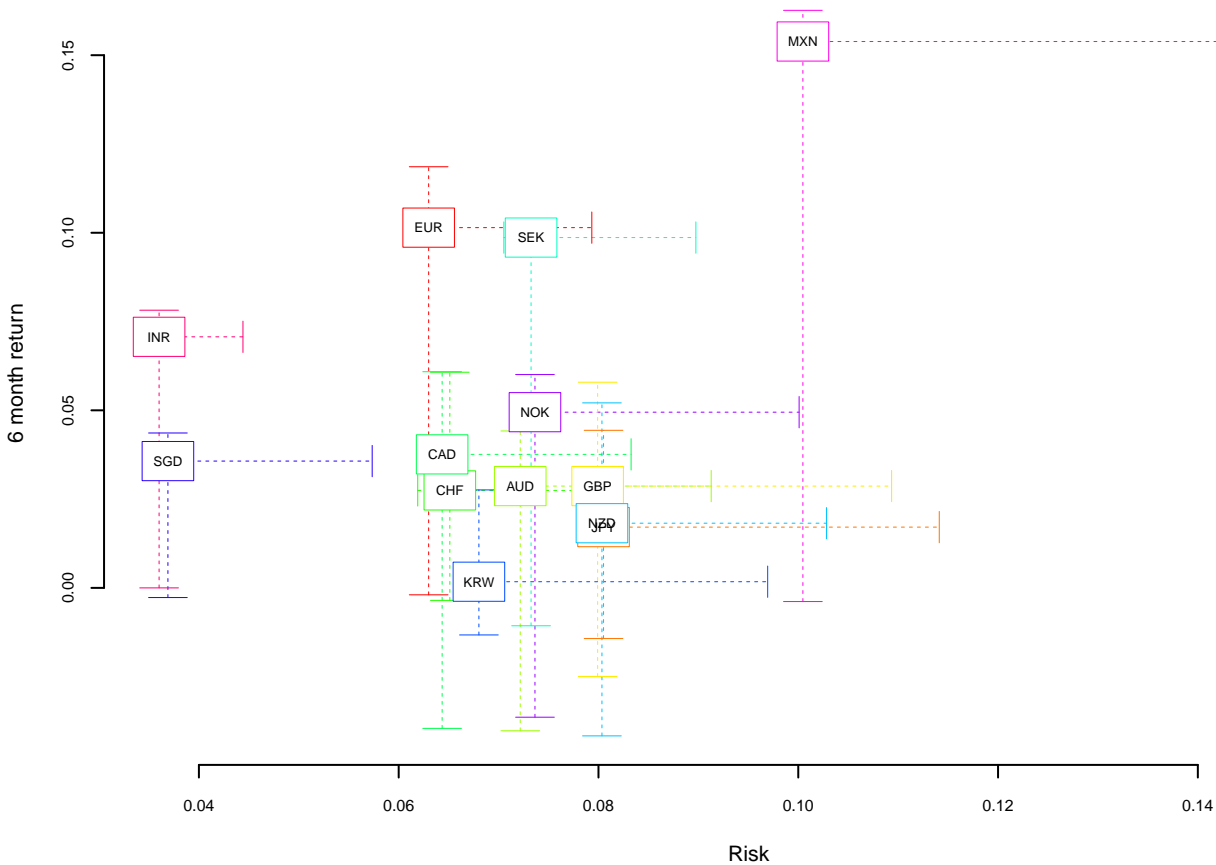
25. TSX Composite rolling ADV (USD billions)



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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