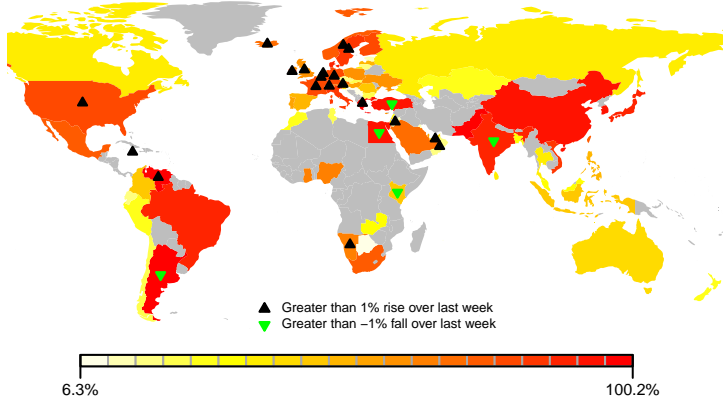
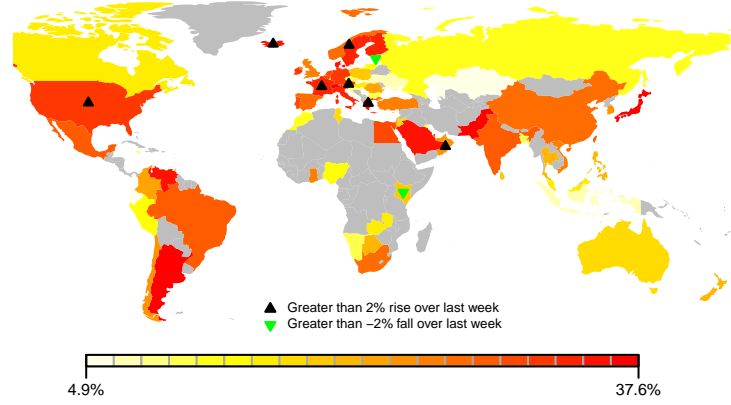


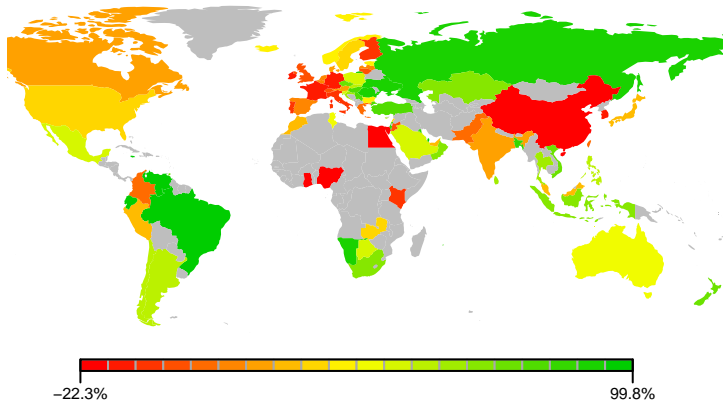
1. Global volatility hotspots



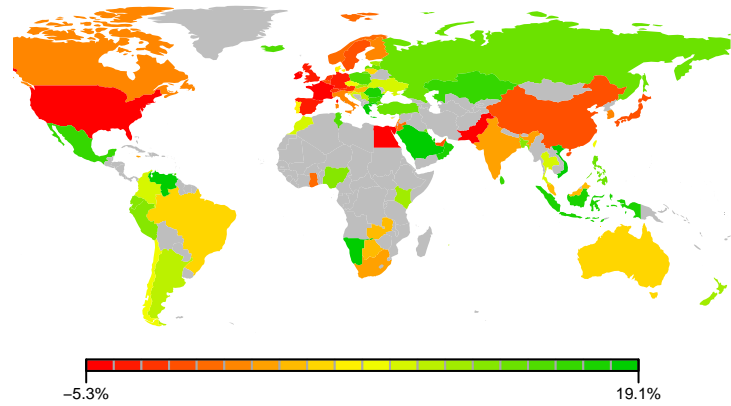
2. Global correlation hotspots



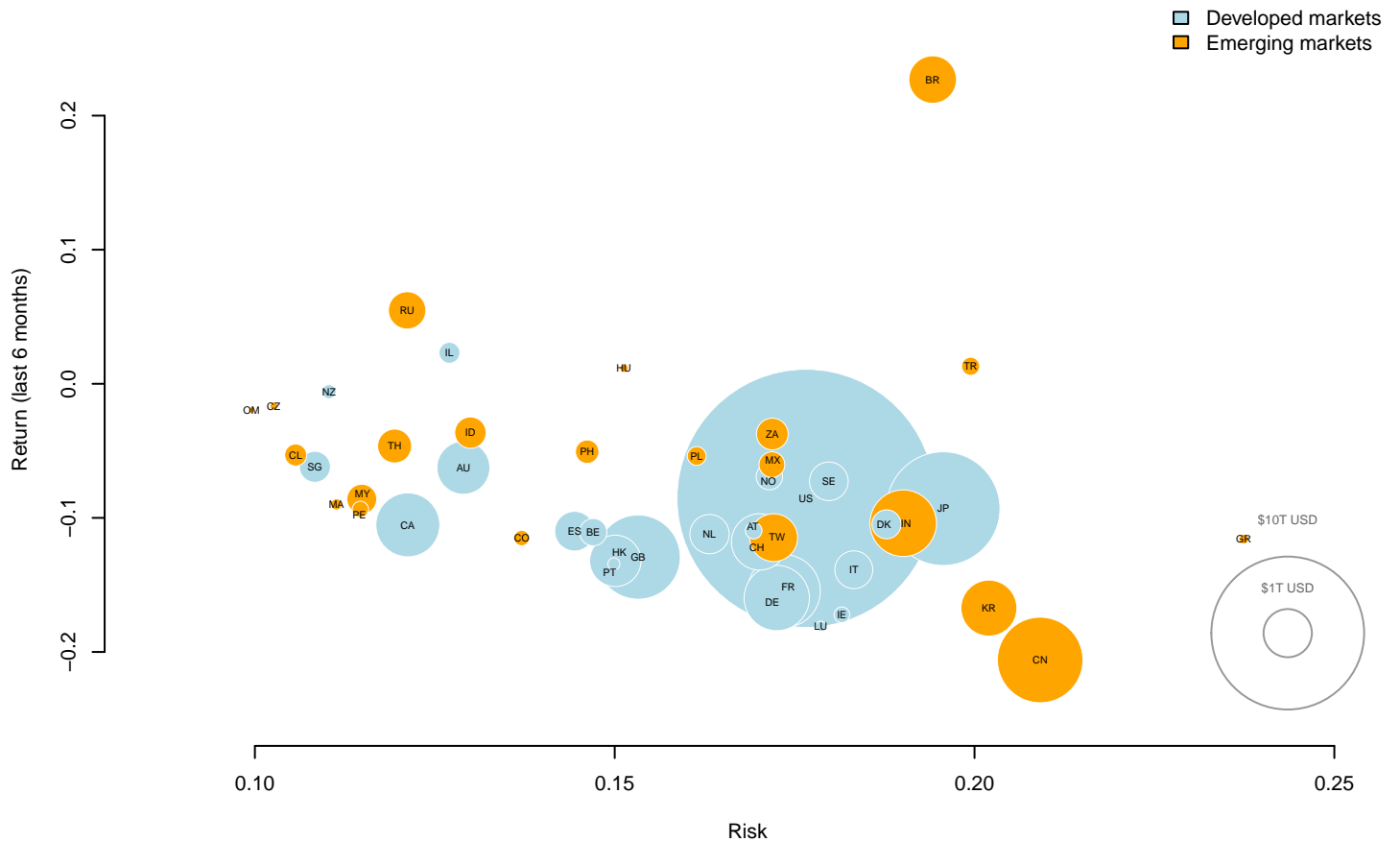
3. Global market returns (6 months)



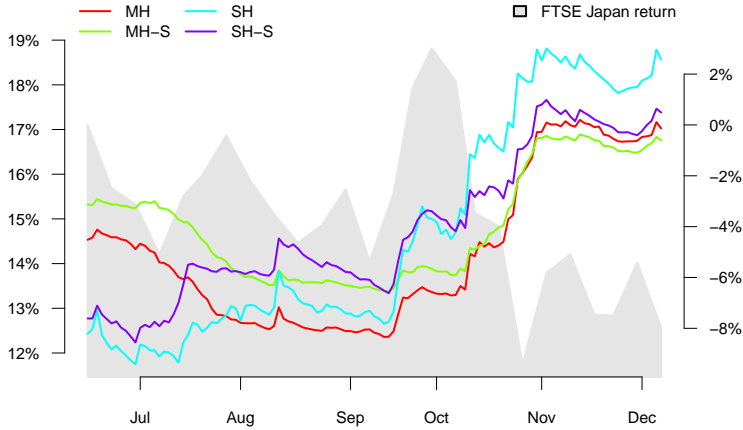
4. Global market returns (1 week)



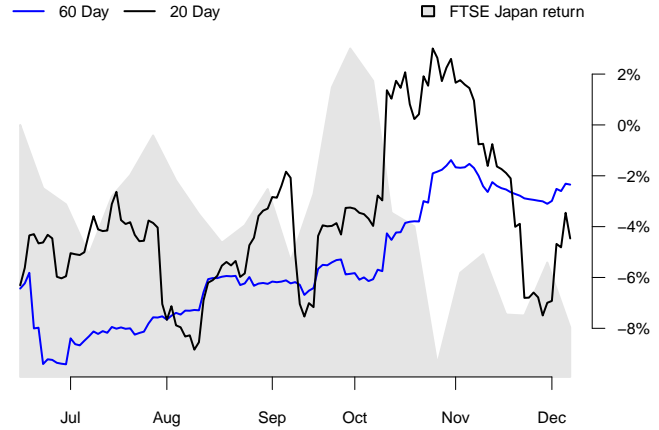
5. Global Market Risk and Return



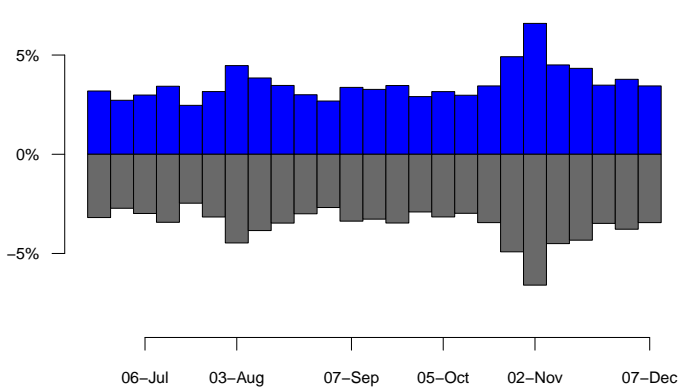
6. FTSE Japan predicted risk



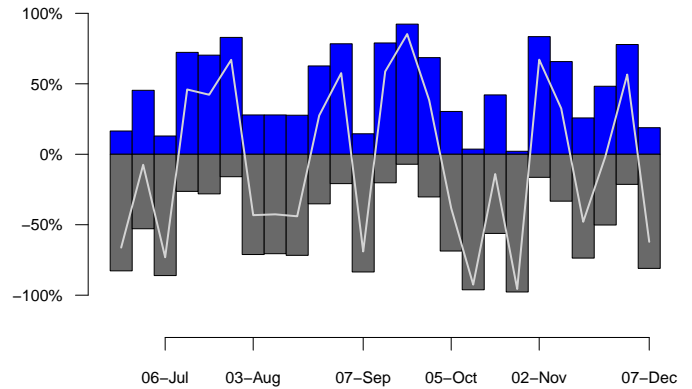
7. Rolling average asset correlations



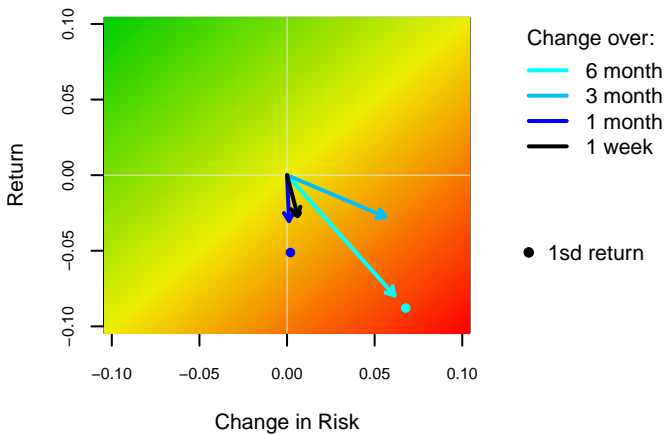
8. Weekly asset return dispersion



9. Weekly asset return proportion up/down



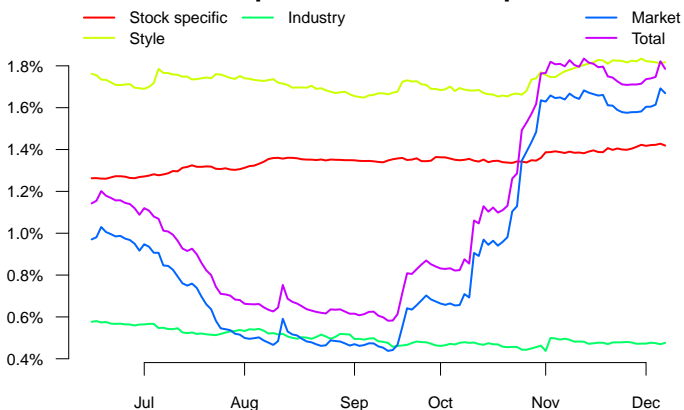
10. Risk Watch – FTSE Japan



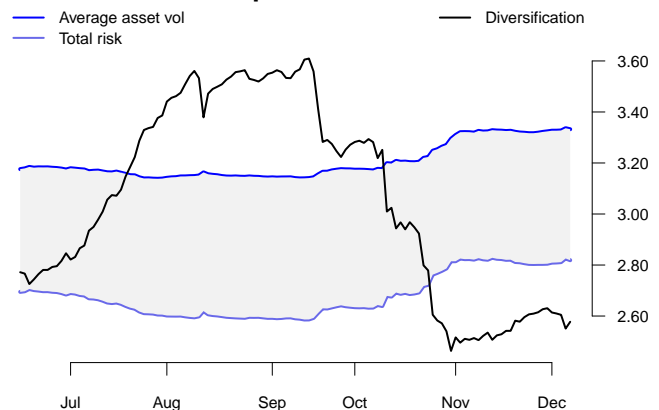
11. Risk change decomposition

	1 week	1 month	3 months	6 months
Factor level				
Initial risk	17.95	18.45	12.92	12.43
Portfolio composition	-0.06	-0.08	-0.08	-0.10
Stock characteristics	-0.01	0.10	0.13	0.00
Stock specific volatility	0.00	0.00	0.01	0.01
Factor volatility	0.69	0.14	5.56	6.26
Factor correlations	0.00	-0.05	0.03	-0.03
Total change	0.62	0.12	5.65	6.14
Final risk	18.57	18.57	18.57	18.57
Stock level				
Initial risk	17.95	18.45	12.92	12.43
Portfolio composition	-0.06	-0.08	-0.08	-0.10
Stock volatility	0.34	0.37	3.40	3.74
Stock correlations	0.34	-0.17	2.32	2.50
Total change	0.62	0.12	5.65	6.14
Final risk	18.57	18.57	18.57	18.57

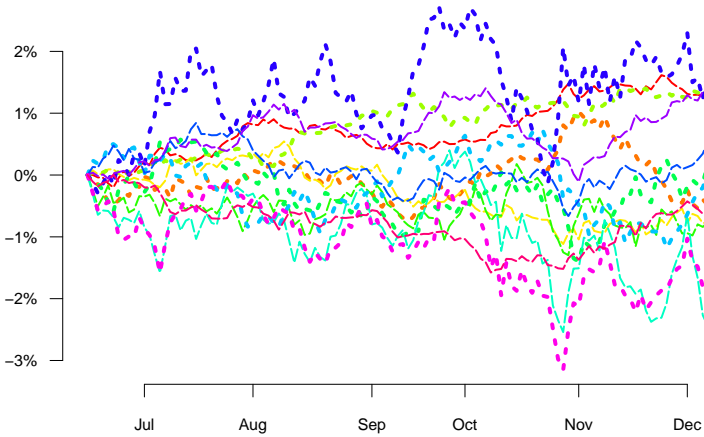
12. Components of FTSE Japan risk



13. FTSE Japan diversification



14. Style factor performance



15. Style factor returns

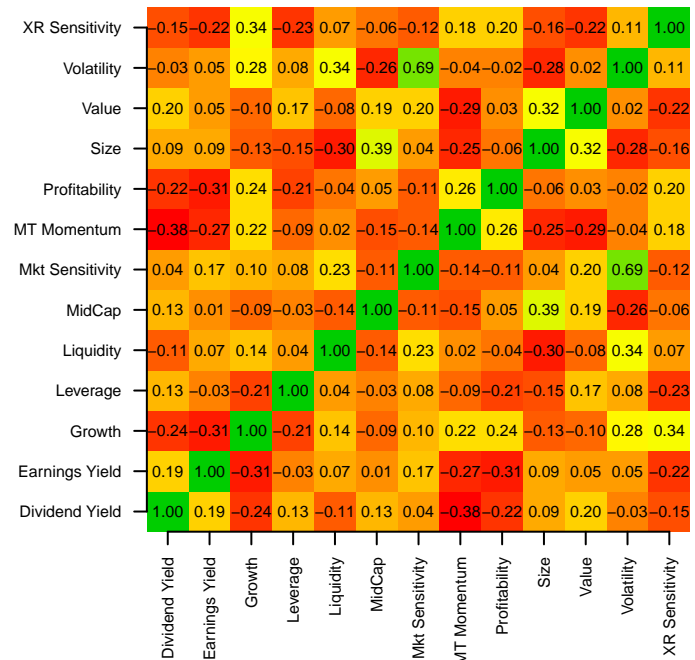
	1w	1m	3m	6m
Dividend Yield	-0.18	-0.14	0.77	1.21
Earnings Yield	-0.03	-1.22	0.03	-0.48
Growth	-0.22	0.16	-0.77	-0.77
Leverage	-0.05	0.12	0.25	1.21
Liquidity	0.19	-0.39	-0.49	-0.76
MidCap	0.55	1.26	0.79	0.17
Mkt Sensitivity	-1.30	-1.24	-1.61	-2.45
MT Momentum	0.88	0.80	0.42	0.08
Profitability	0.46	0.65	0.70	0.55
Size	-0.24	0.29	0.95	1.71
Value	0.13	1.03	0.89	1.31
Volatility	-0.40	-0.39	-0.87	-1.86
XR Sensitivity	-0.16	0.49	0.01	-0.66



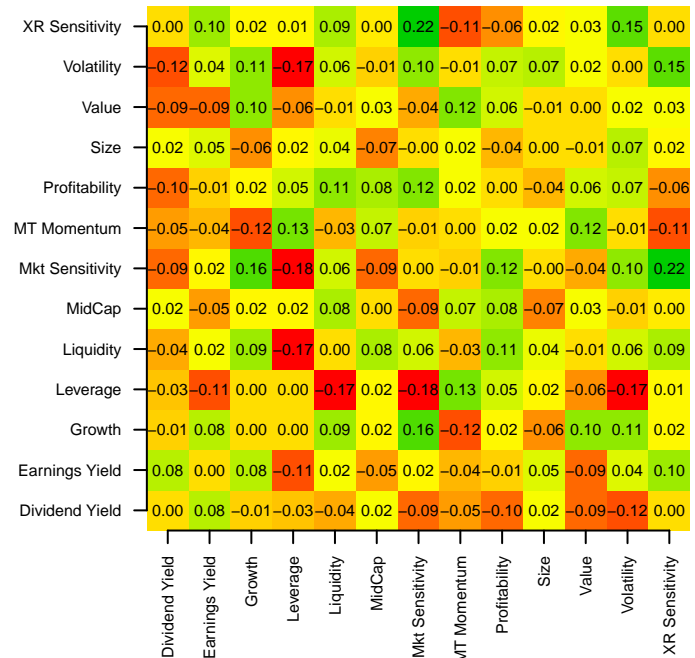
16. Factor volatility range (6 month)



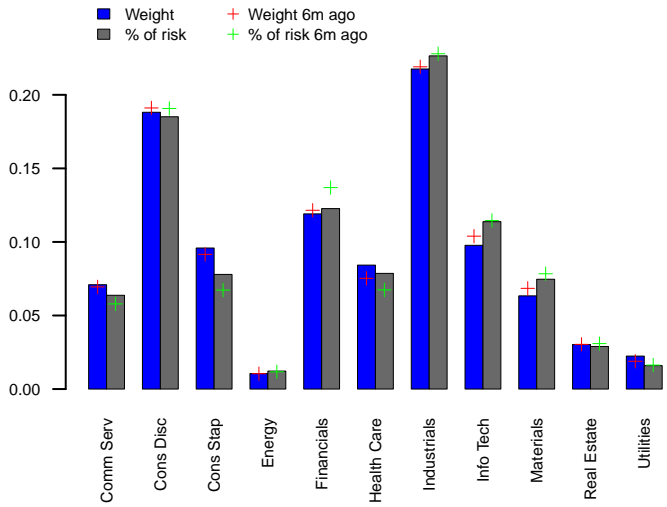
17. Style correlations



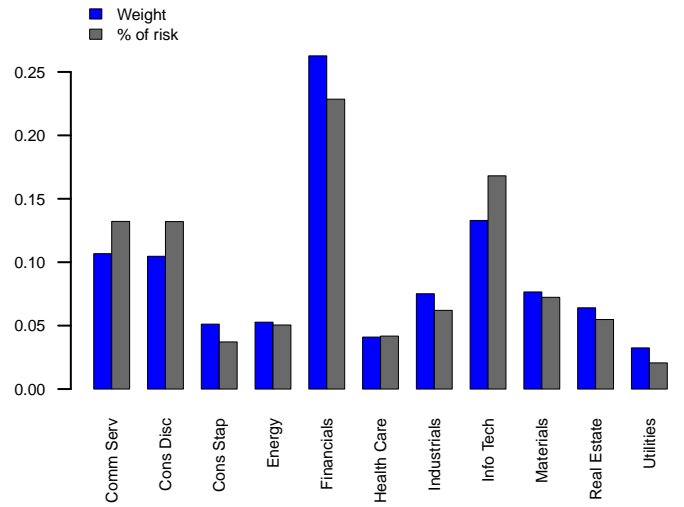
18. Change in style correlations (6 month)



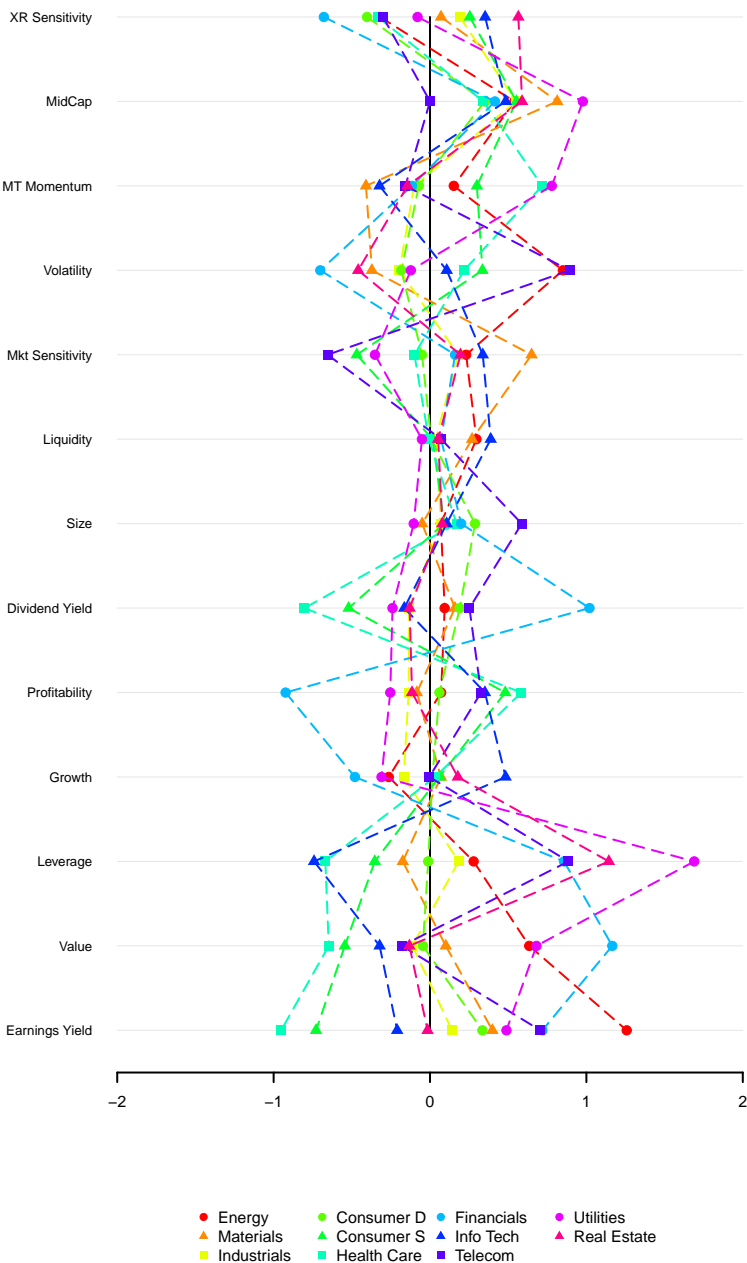
19. FTSE Japan GICS 2018 weights and % of risk



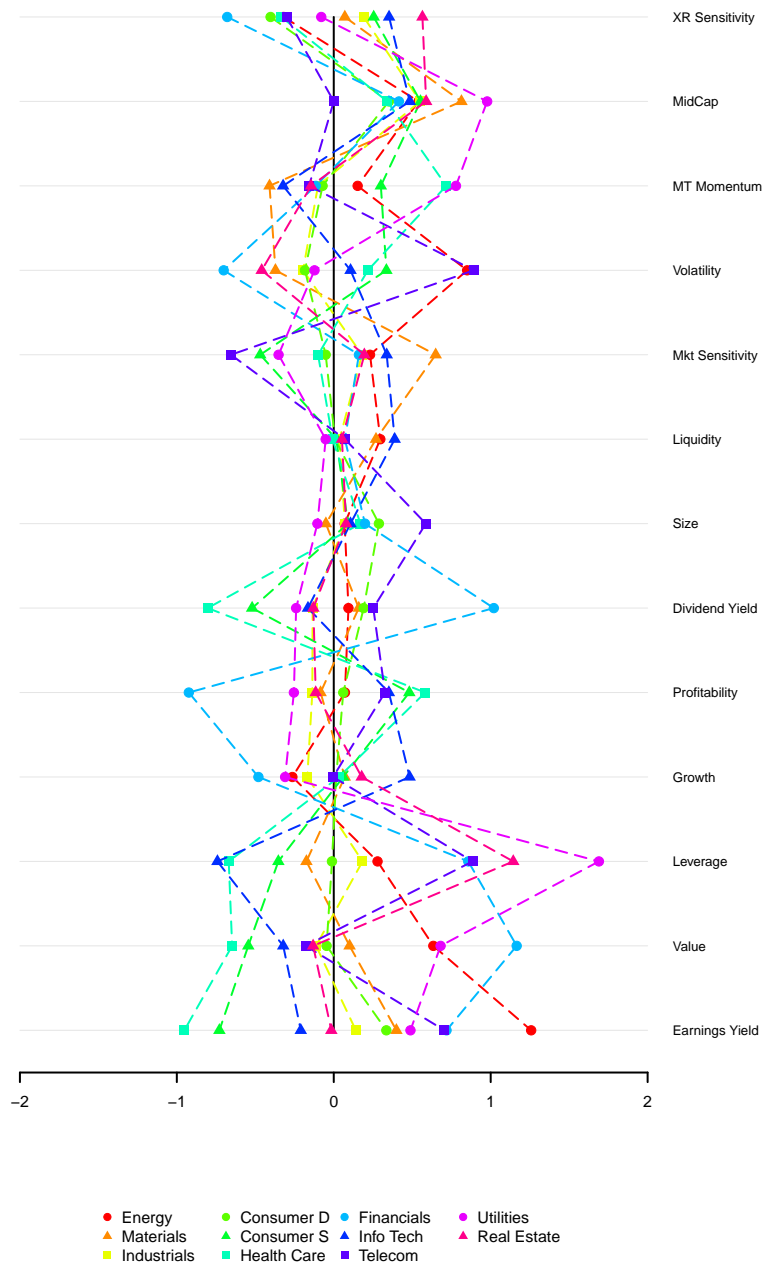
20. FTSE Developed sector weights and % of risk



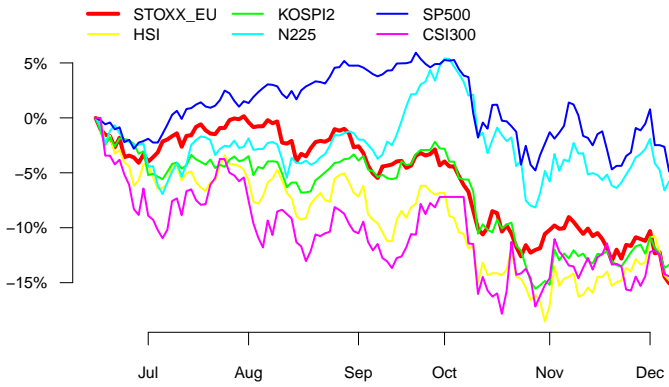
21. FTSE Japan sector style exposures



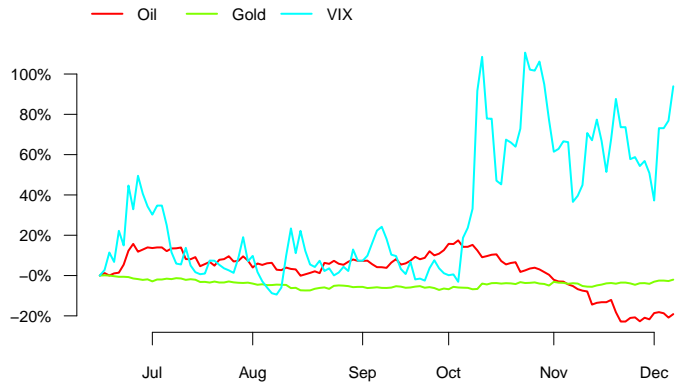
22. FTSE Developed sector style exposures



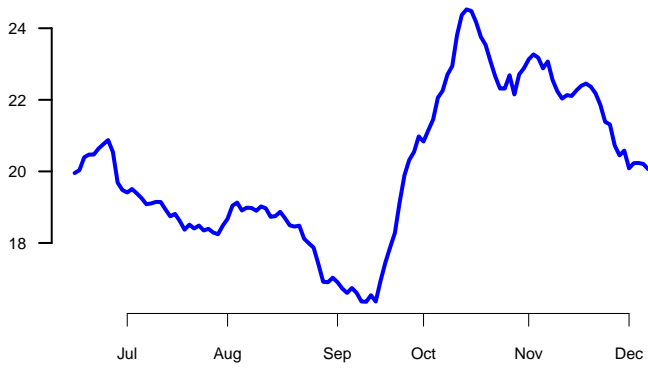
23. Returns for popular benchmarks



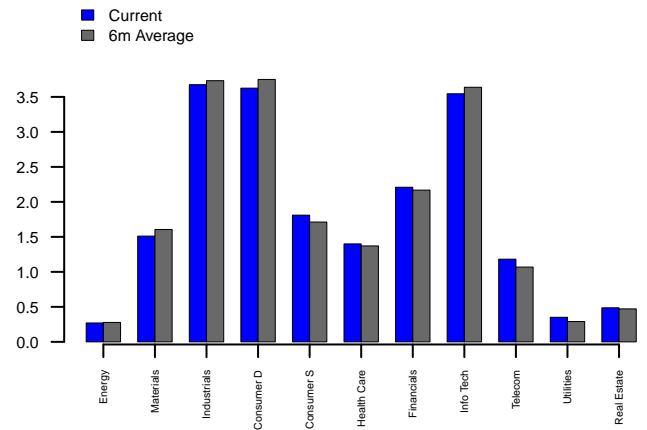
24. Returns for popular indicators



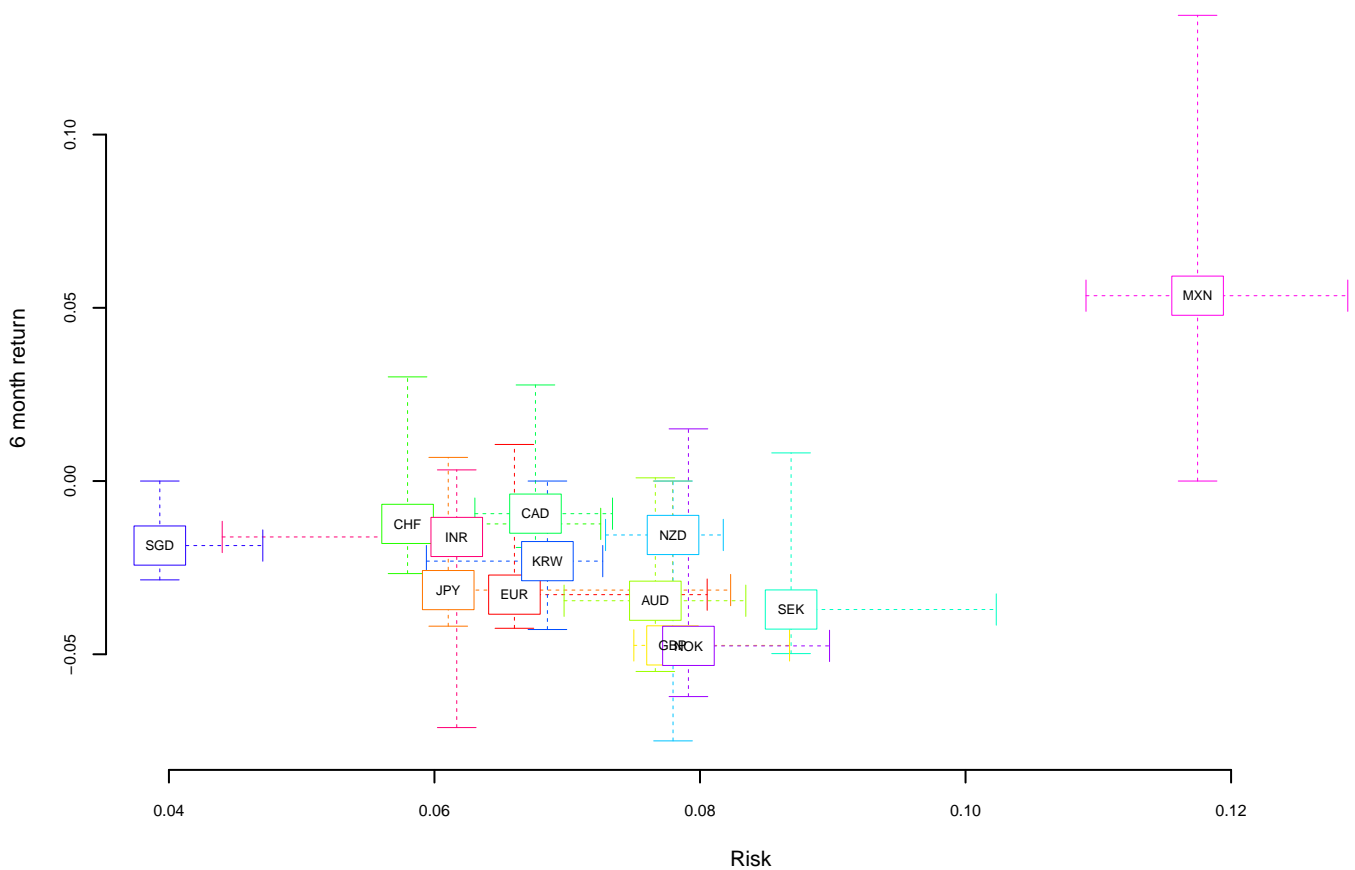
25. FTSE Japan rolling ADV (USD billions)



26. FTSE Japan 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. FTSE Japan predicted risk

Forecast risk estimate for FTSE Japan measured by the four Axioma Japan model variants. MH = medium horizon, SH = short, -S = statistical model. Right hand axis shows FTSE Japan return.

7. Rolling average asset correlations

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

8. Weekly asset return dispersion

Cross sectional volatility of weekly asset returns over FTSE Japan 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 FTSE Japan stocks.

10. Risk watch – FTSE Japan

Change in FTSE Japan risk vs total return over indicated period. Risk is measured by Axioma short horizon Japan 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 FTSE Japan risk over 1 week, 1 month, 3 months and 6 months. For more details contact your Axioma representative.

12. Components of FTSE Japan risk

FTSE Japan stock specific risk and risk from style and industry, measured daily over the last 6 months using Axioma medium horizon model. Does not include covariance between industry and style.

13. FTSE Japan diversification

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

14. Style factor performance

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

15. Style factor returns

Return of the Axioma Japan 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 Japan 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 Japan medium horizon fundamental model

18. Change in style correlations (6 month)

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

19. FTSE Japan sector weights and % of risk

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

20. FTSE Developed sector weights and % of risk

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

21. FTSE Japan sector style exposures

The weighted average exposure to Axioma Japan style factors for top level sectors in the FTSE Japan index.

22. FTSE Developed sector style exposures

The weighted average exposure to Axioma Japan style factors for top level sectors in the FTSE Developed 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. FTSE Japan rolling ADV (USD billions)

Daily sum of 20-day average USD daily trading value for assets in FTSE Japan.

26. FTSE Japan ADV by sector

Current and 6 month average 20-day average USD daily trading value for assets in FTSE Japan, 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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