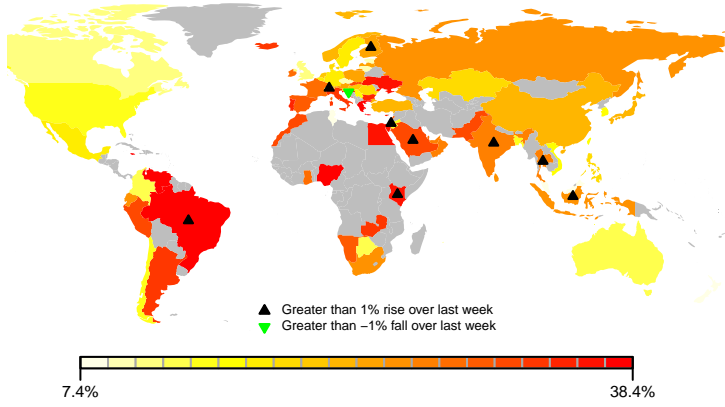
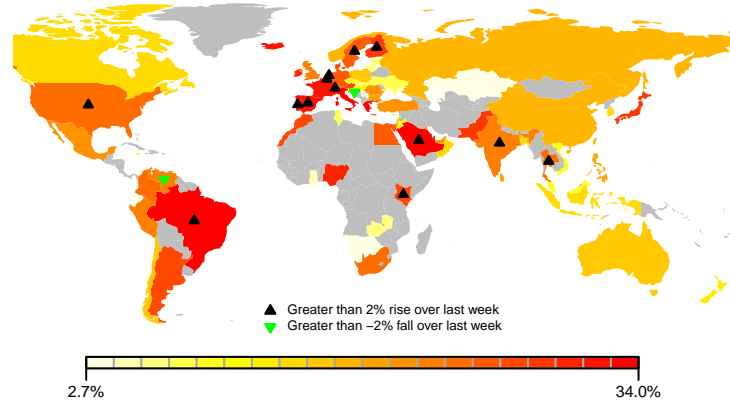


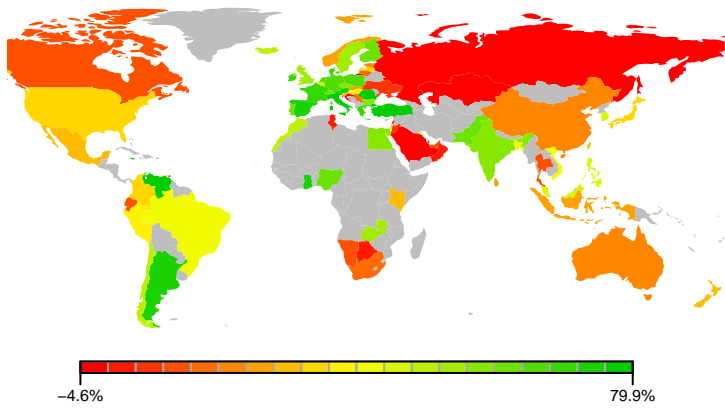
**1. Global volatility hotspots**



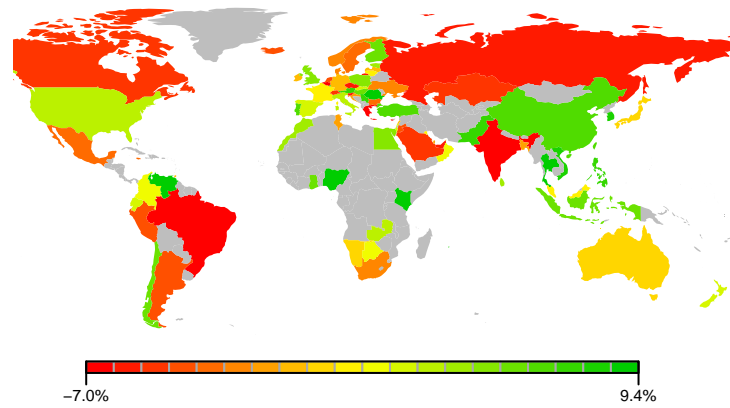
**2. Global correlation hotspots**



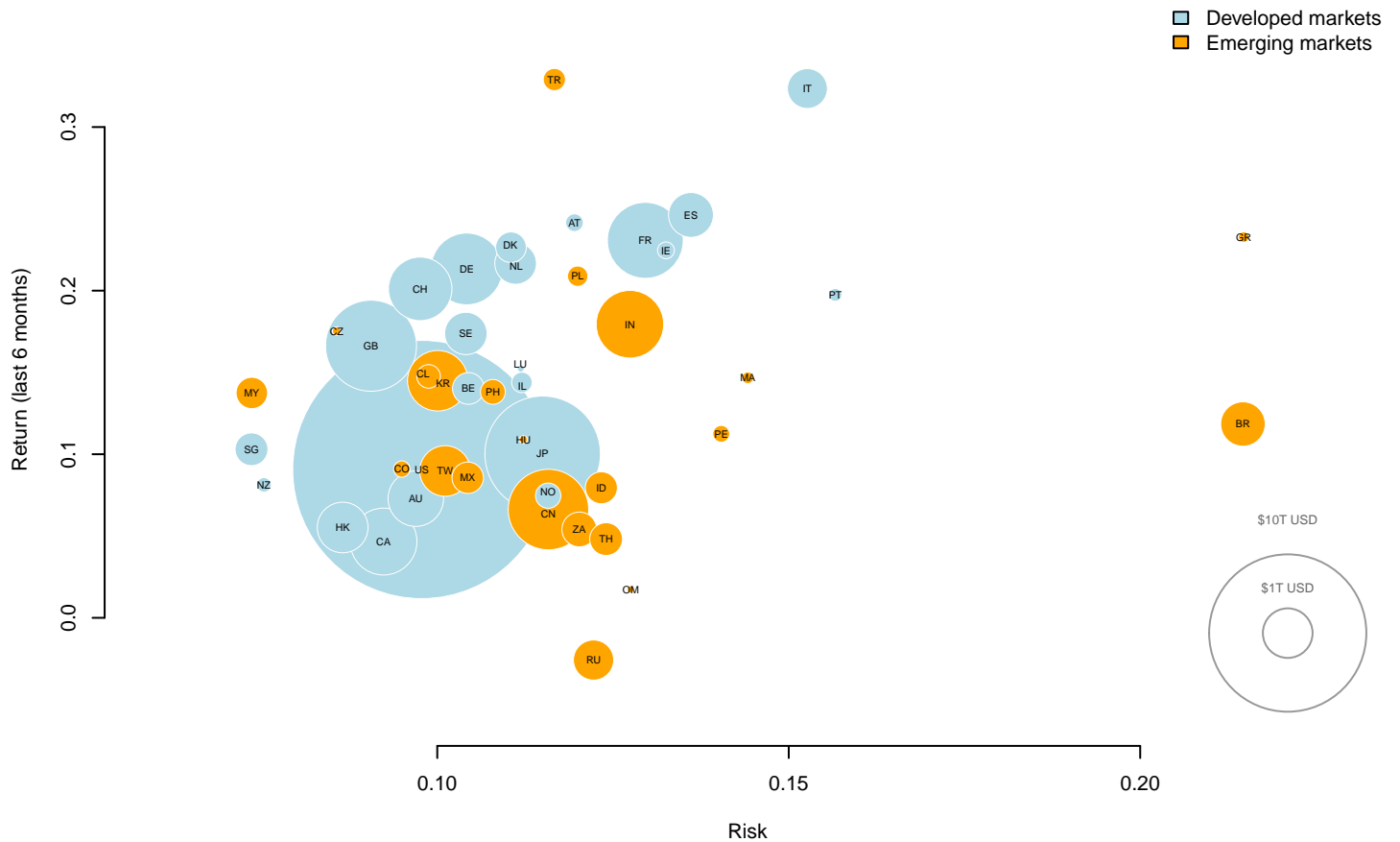
**3. Global market returns (6 months)**



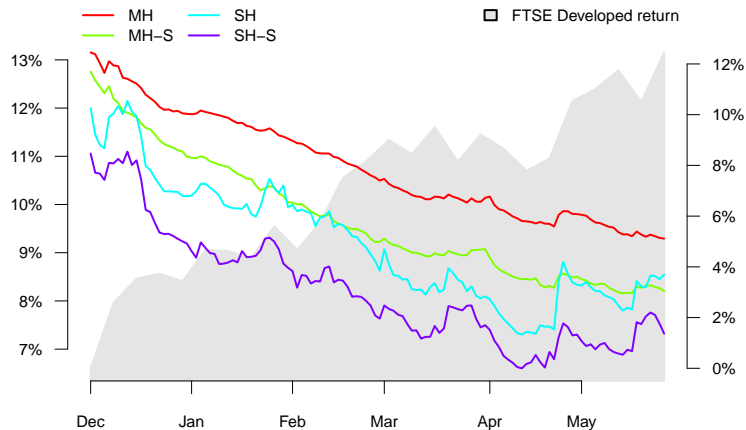
**4. Global market returns (1 week)**



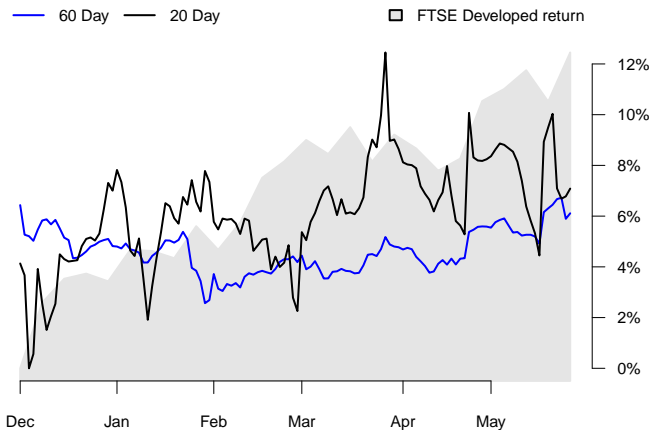
**5. Global Market Risk and Return**



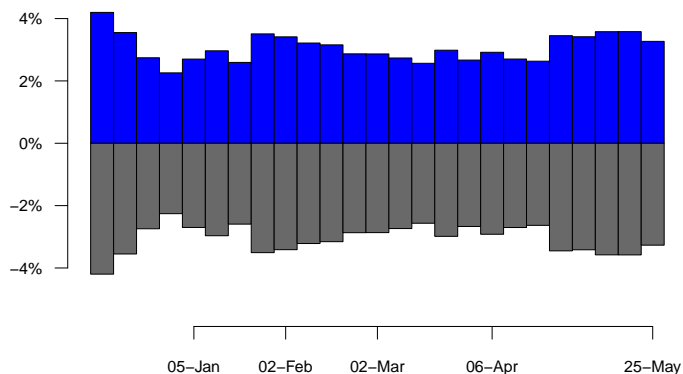
### 6. FTSE Developed predicted risk



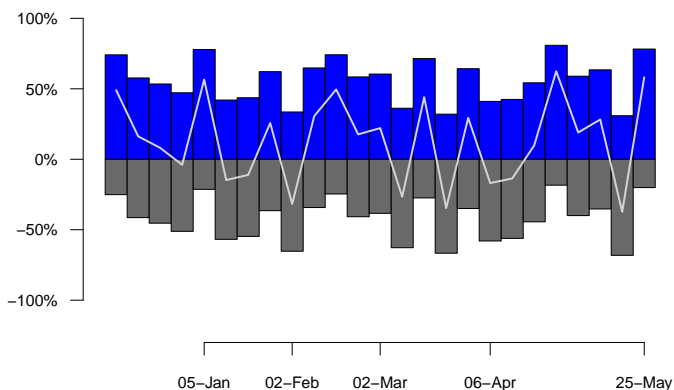
### 7. Rolling average asset correlations



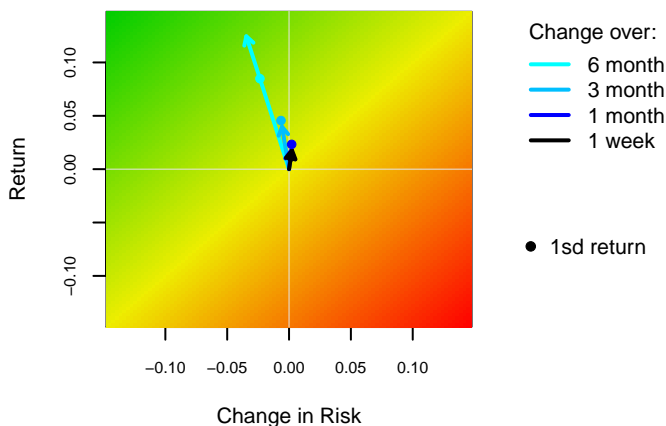
### 8. Weekly asset return dispersion



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



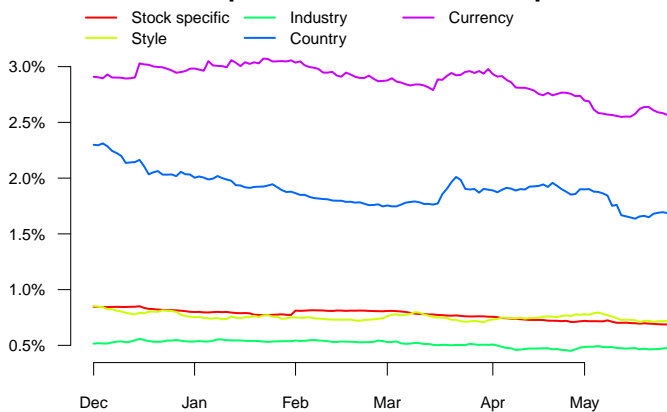
### 10. Risk Watch – FTSE Developed



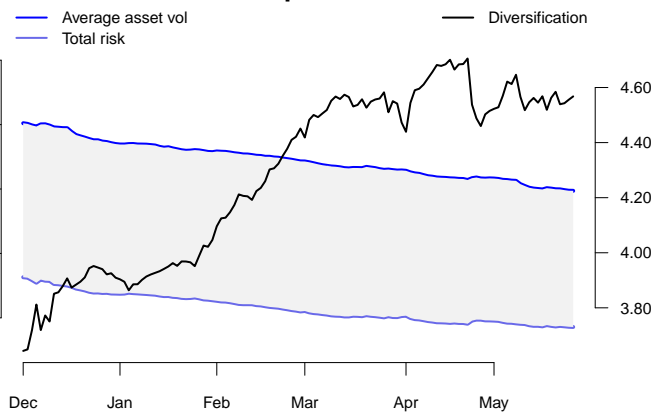
### 11. Risk change decomposition

	1 week	1 month	3 months	6 months
<b>Factor level</b>				
Initial risk	8.30	8.39	9.11	12.00
Portfolio composition	0.00	-0.01	0.00	0.08
Stock characteristics	-0.01	-0.01	-0.07	-0.28
Stock specific volatility	0.00	0.00	-0.01	-0.02
Factor volatility	0.17	0.20	-0.40	-3.12
Factor correlations	0.08	-0.02	-0.09	-0.12
Total change	0.24	0.16	-0.57	-3.45
Final risk	8.55	8.55	8.55	8.55
<b>Stock level</b>				
Initial risk	8.30	8.39	9.11	12.00
Portfolio composition	0.00	-0.01	0.00	0.08
Stock volatility	0.00	0.02	-0.81	-3.13
Stock correlations	0.24	0.15	0.25	-0.40
Total change	0.24	0.16	-0.57	-3.45
Final risk	8.55	8.55	8.55	8.55

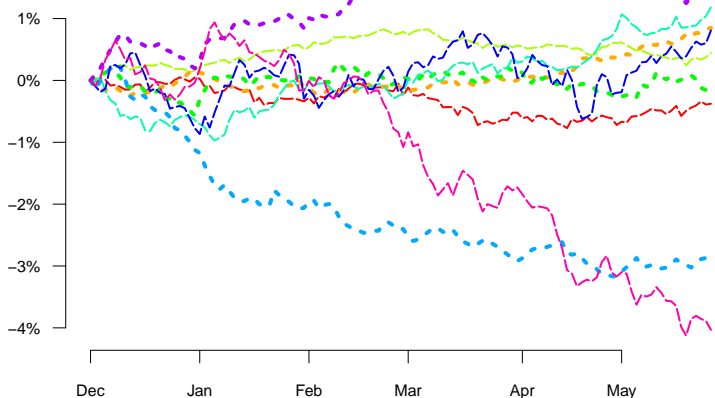
### 12. Components of FTSE Developed risk



### 13. FTSE Developed diversification

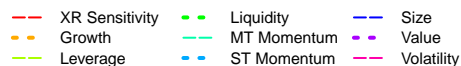


### 14. Style factor performance

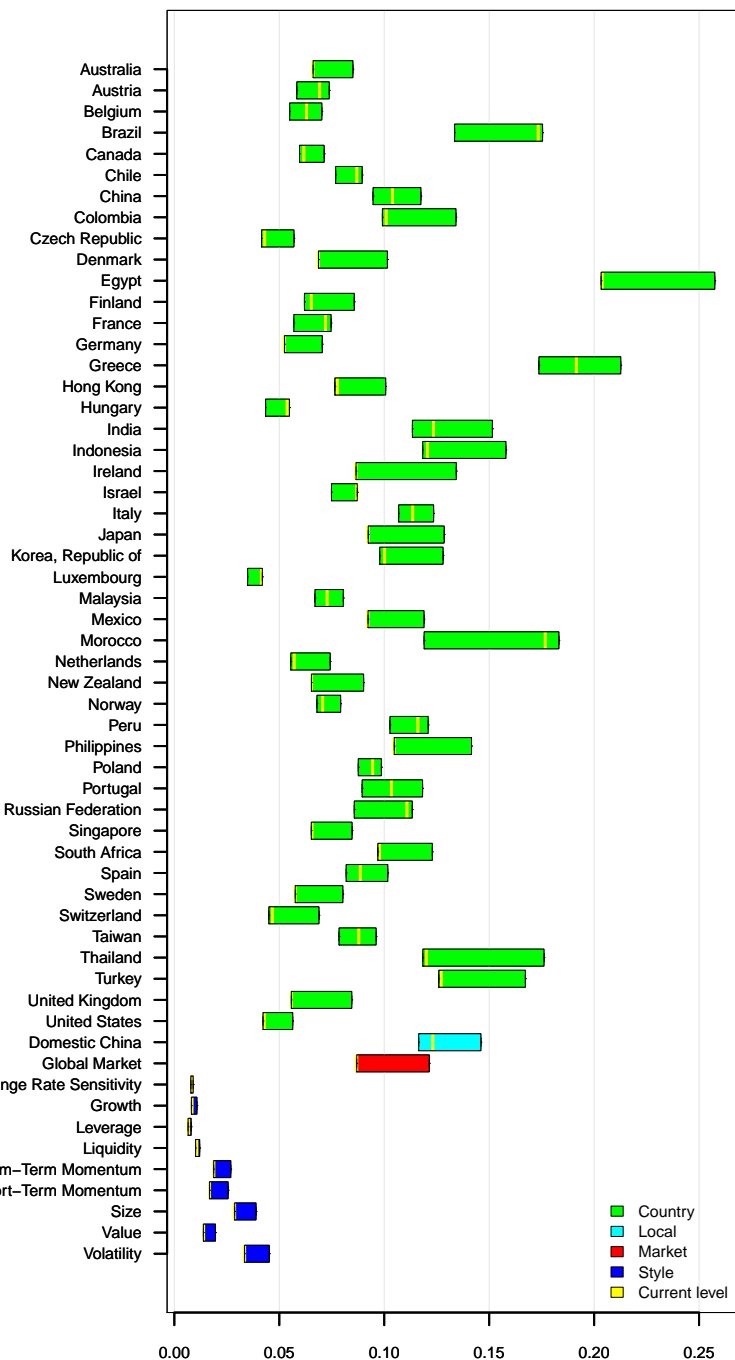


### 15. Style factor returns

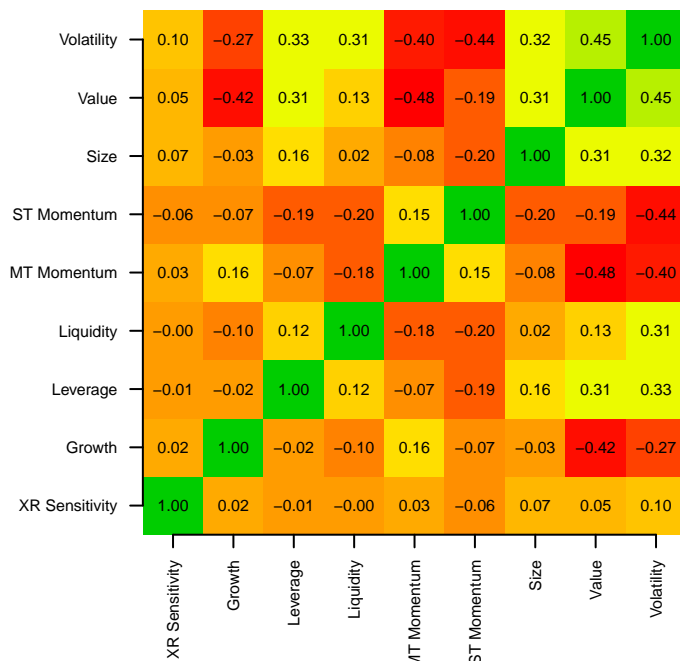
	1w	1m	3m	6m
<b>XR Sensitivity</b>	0.11	0.22	-0.33	-0.38
<b>Growth</b>	0.10	0.55	0.95	0.85
<b>Leverage</b>	0.20	-0.10	-0.31	0.44
<b>Liquidity</b>	-0.24	-0.02	-0.23	-0.21
<b>MT Momentum</b>	0.32	0.51	1.44	1.18
<b>ST Momentum</b>	0.20	0.36	-0.39	-2.79
<b>Size</b>	0.42	0.76	1.00	0.81
<b>Value</b>	0.03	-0.43	-0.23	1.28
<b>Volatility</b>	0.10	-1.23	-3.22	-4.03



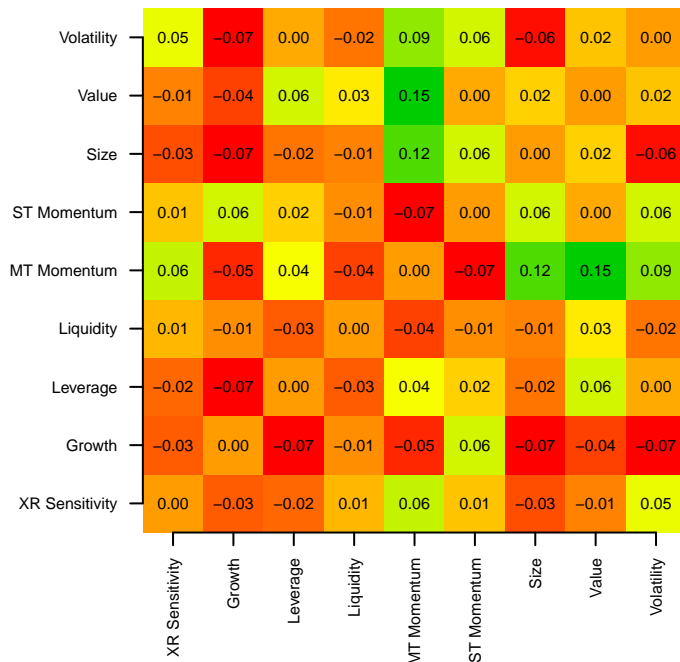
### 16. Factor volatility range (6 month)



### 17. Style correlations

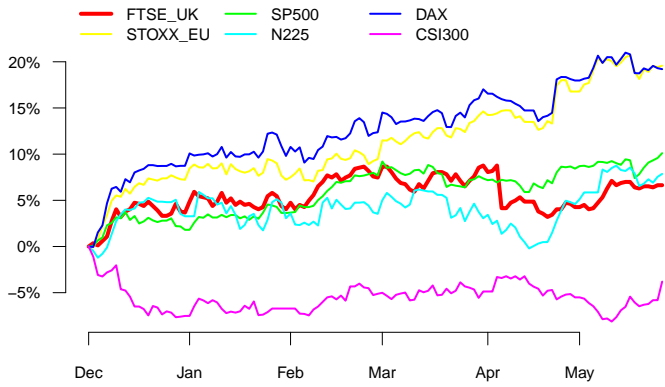


### 18. Change in style correlations (6 month)

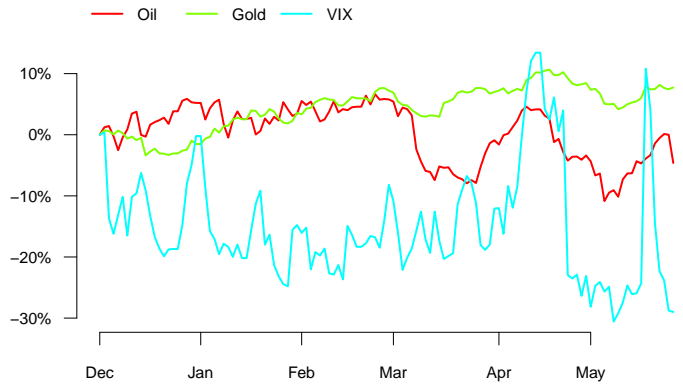




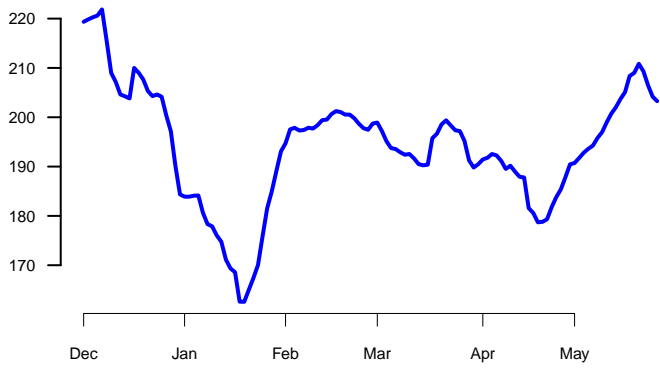
### 23. Returns for popular benchmarks



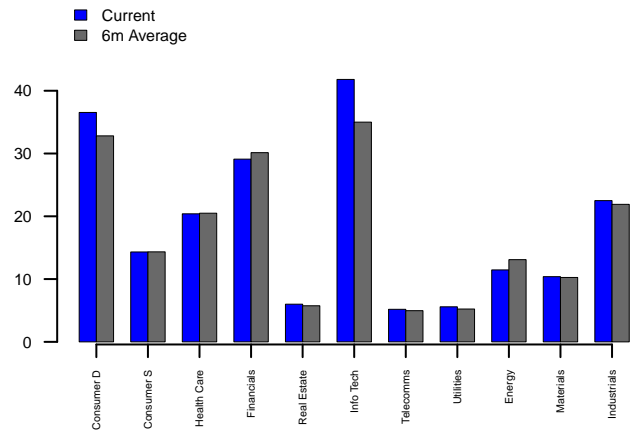
### 24. Returns for popular indicators



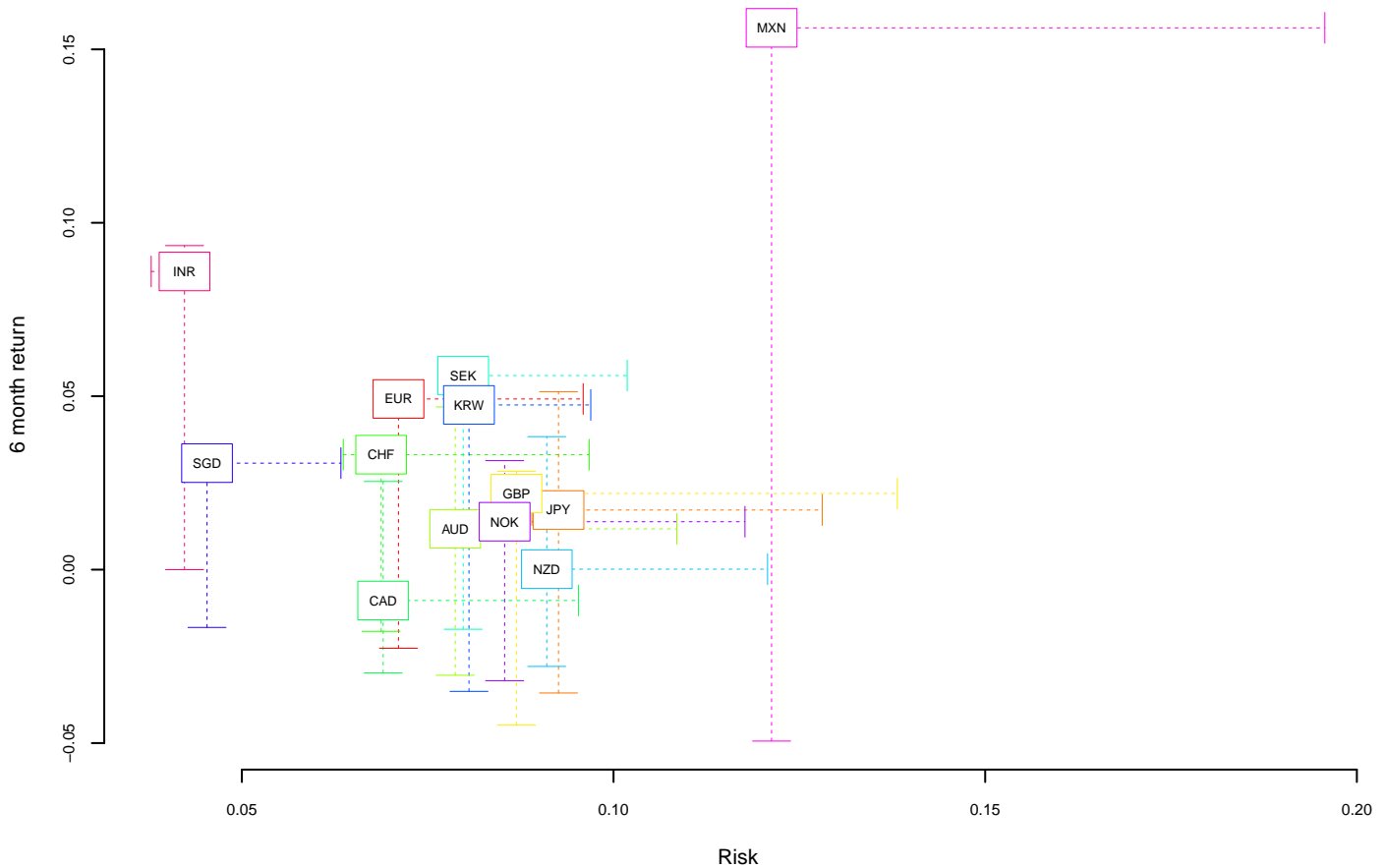
### 25. FTSE Developed rolling ADV (USD billions)



### 26. FTSE Developed 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 Developed predicted risk

Forecast risk estimate for the FTSE Developed measured by the four Axioma World model variants. MH = medium horizon, SH = short, -S = statistical model.

Right hand axis shows FTSE Developed return.

### 7. Rolling average asset correlations

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

### 8. Weekly asset return dispersion

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

### 10. Risk watch – FTSE Developed

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

### 12. Components of FTSE Developed risk

FTSE Developed 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 and style.

### 13. FTSE Developed diversification

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

### 14. Style factor performance

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

### 15. Style factor returns

Return of the Axioma World 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 World 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 World medium horizon fundamental model

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

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

### 19. 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.

### 20. FTSE Developed country weights and % of risk

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

### 21. FTSE Developed sector style exposures

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

### 22. FTSE Developed country style exposures

The weighted average exposure to Axioma World country 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 Developed rolling ADV (USD billions)

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

### 26. FTSE Developed ADV by sector

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