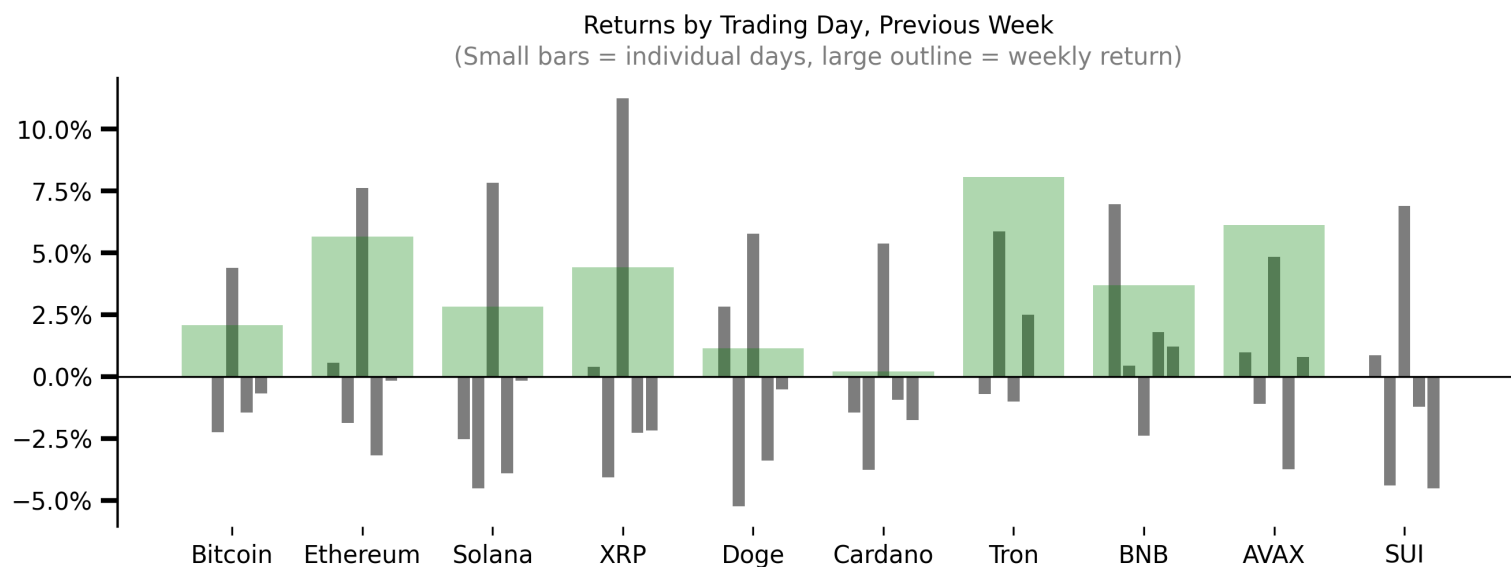
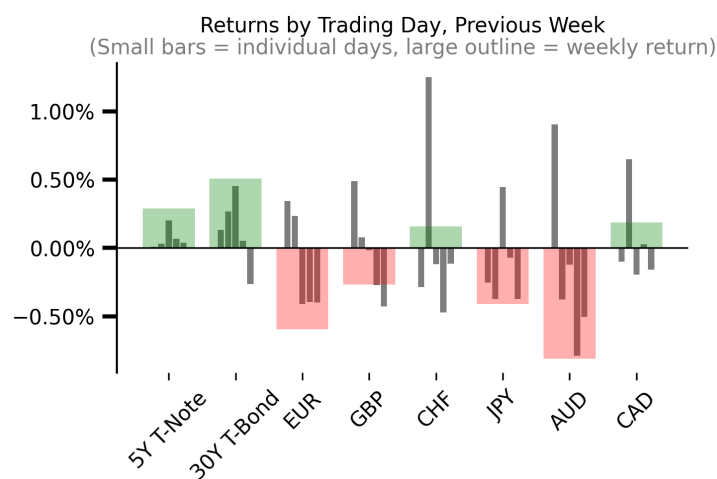
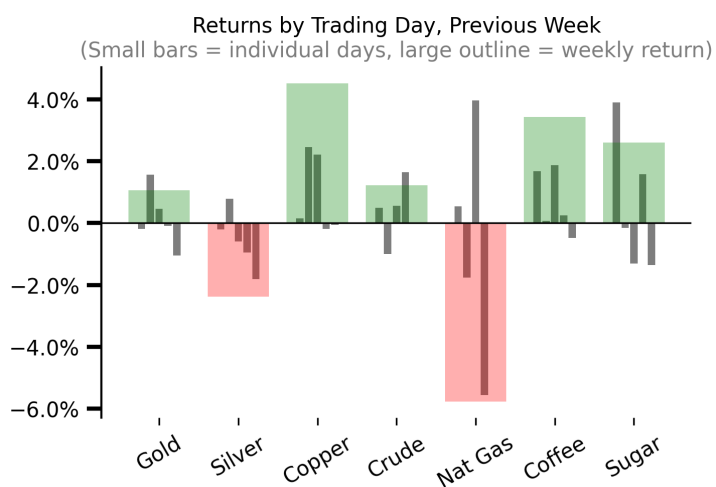
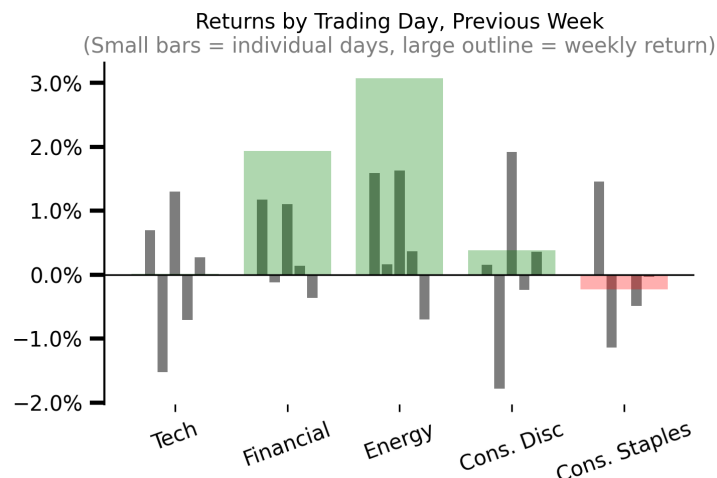
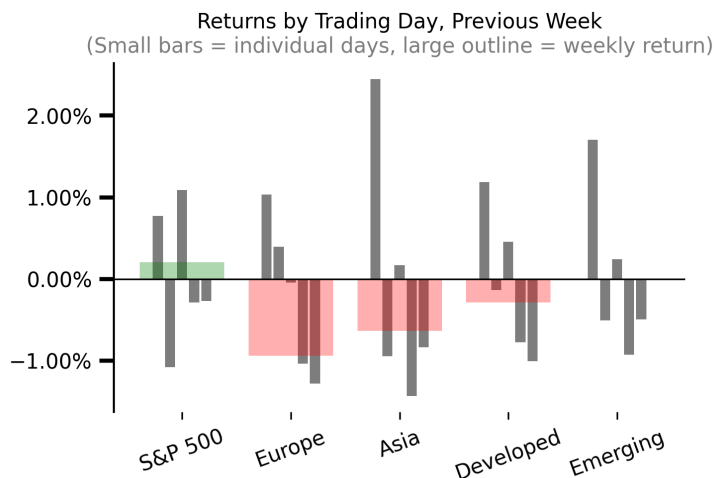
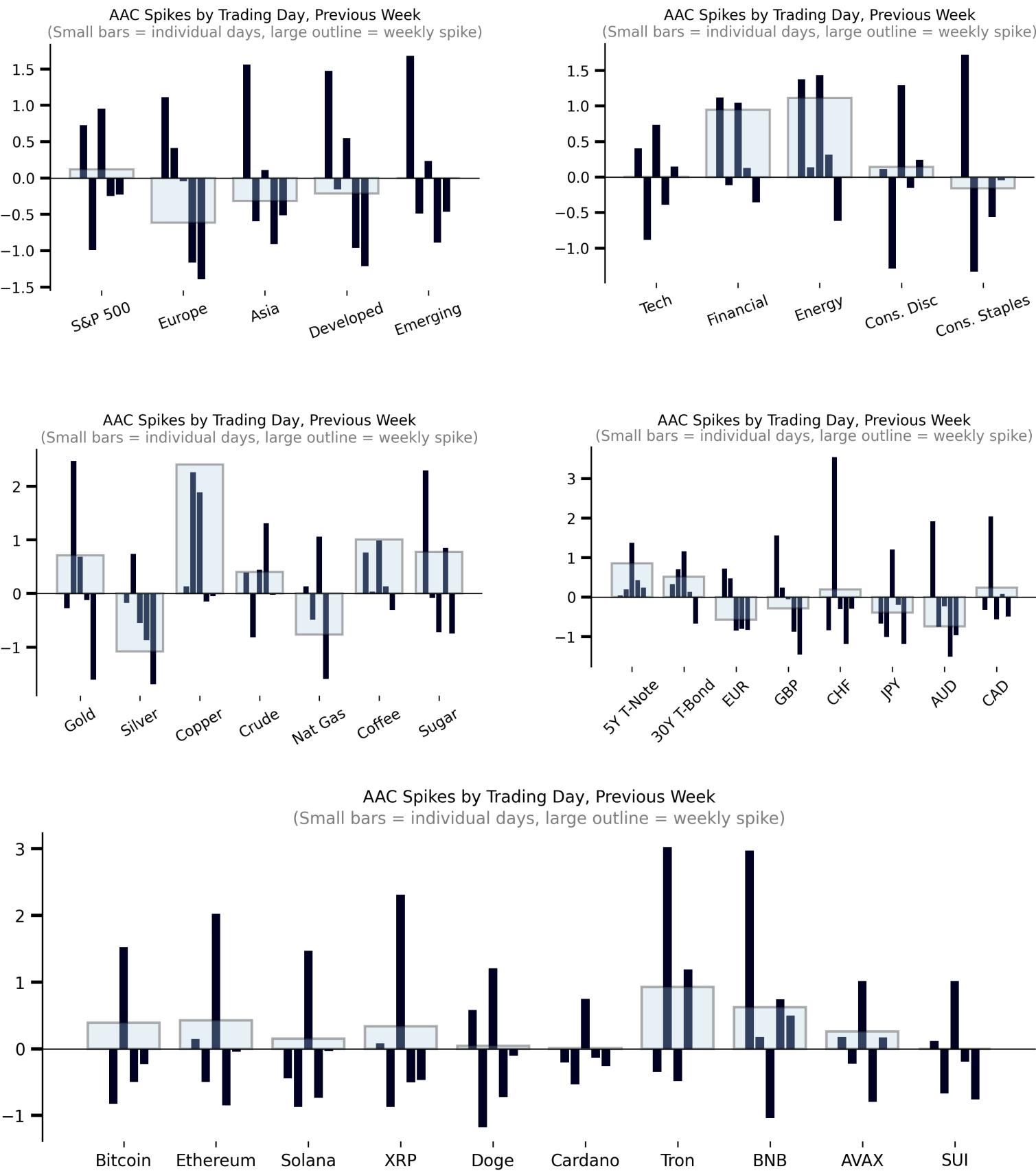




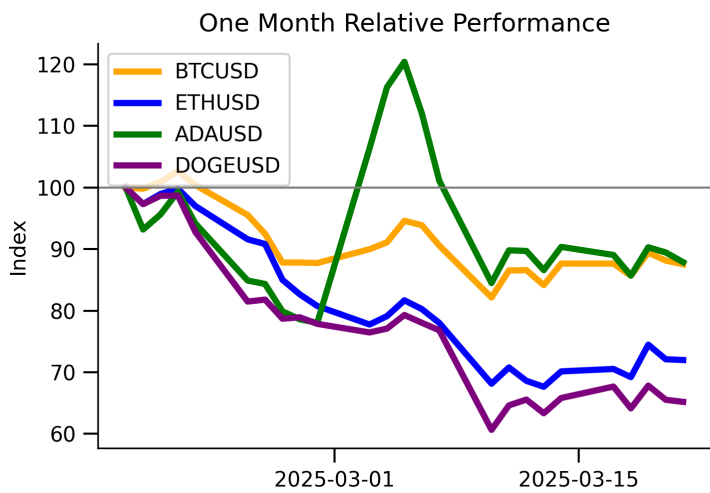
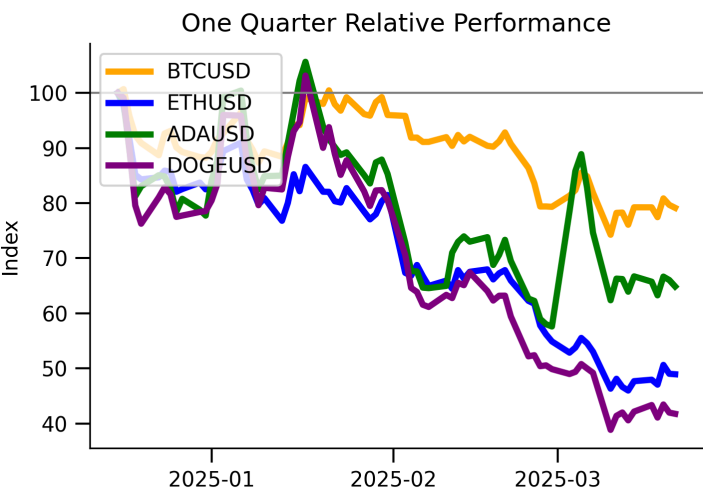
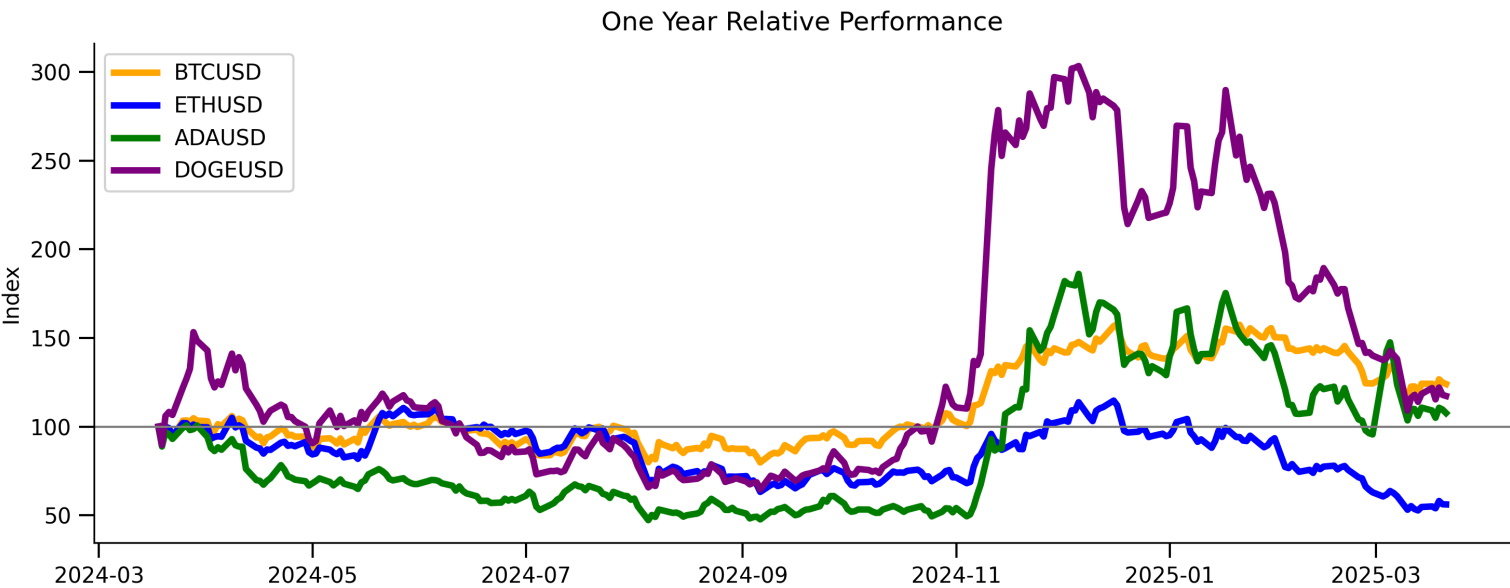
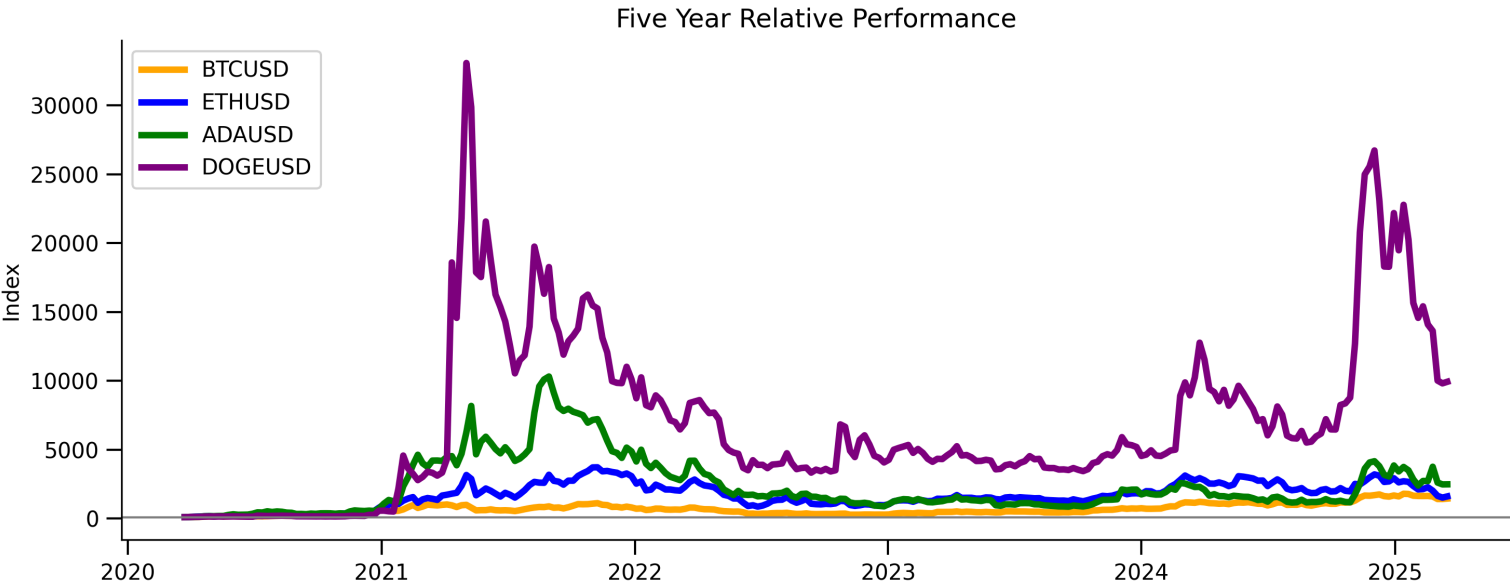
Last Week's Market Review



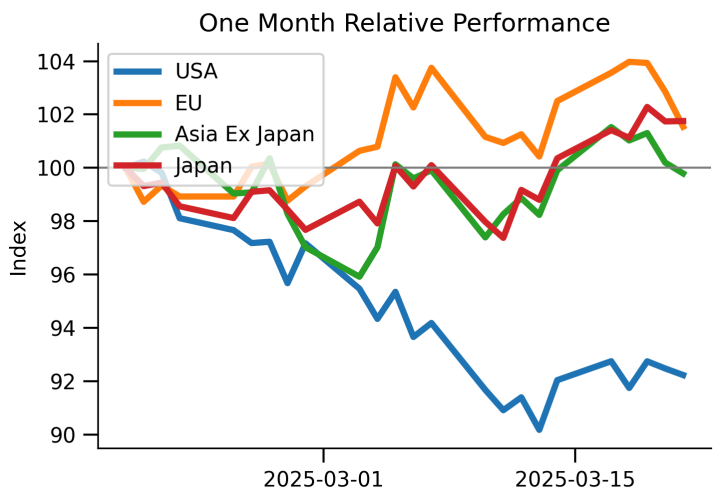
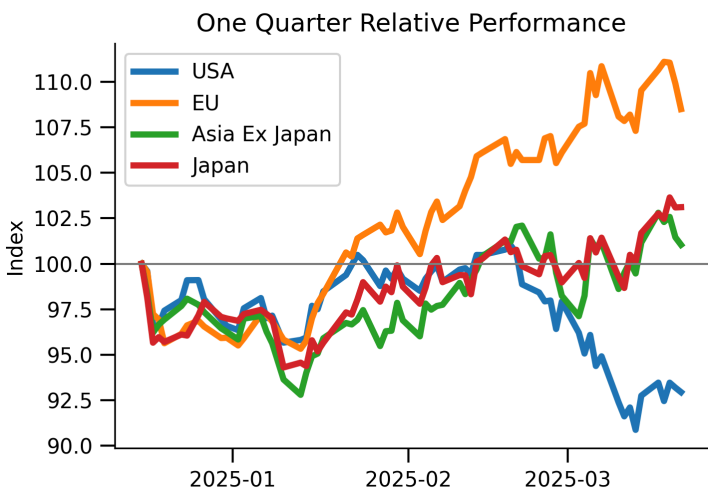
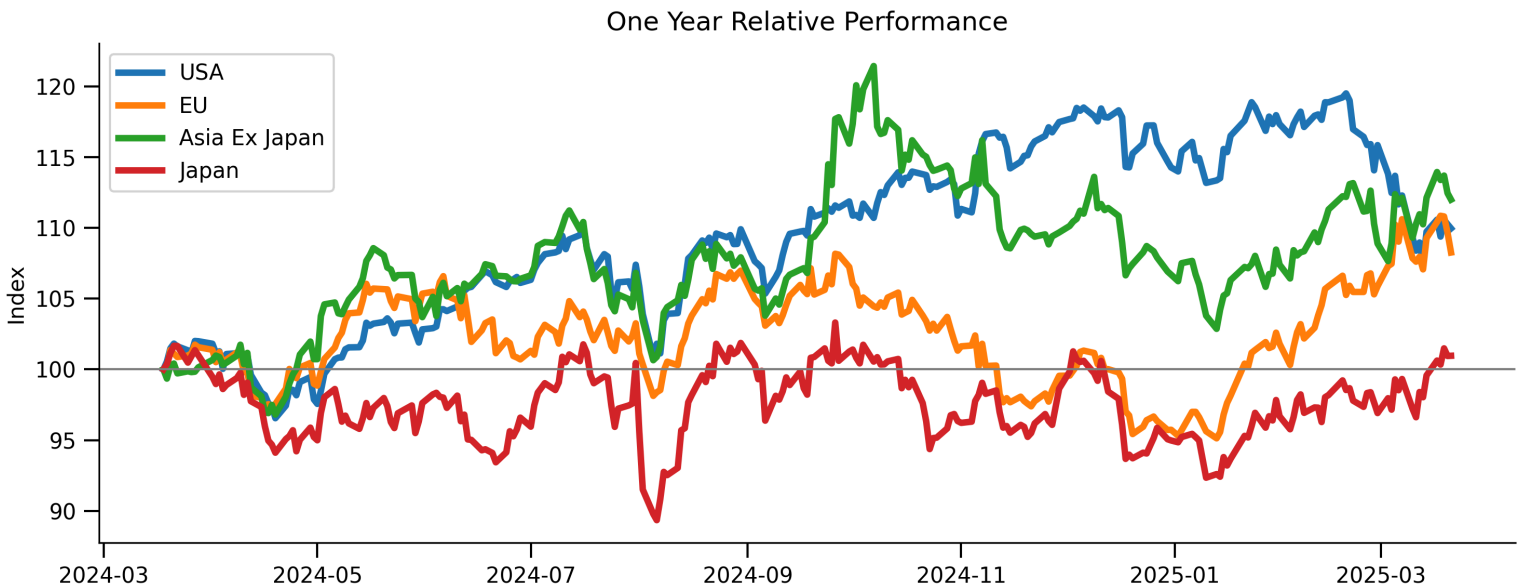
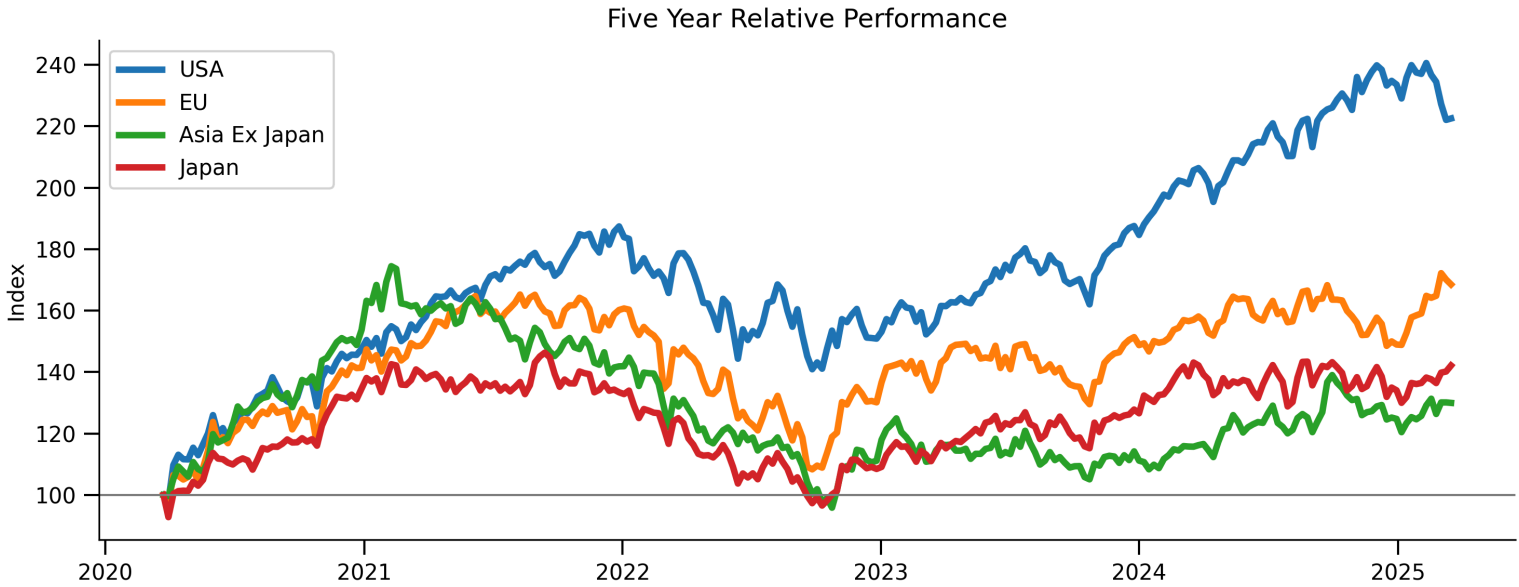
Last Week's Market Review



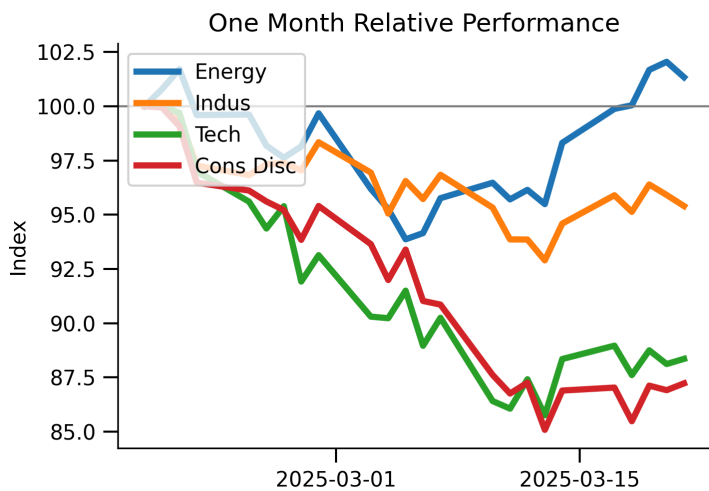
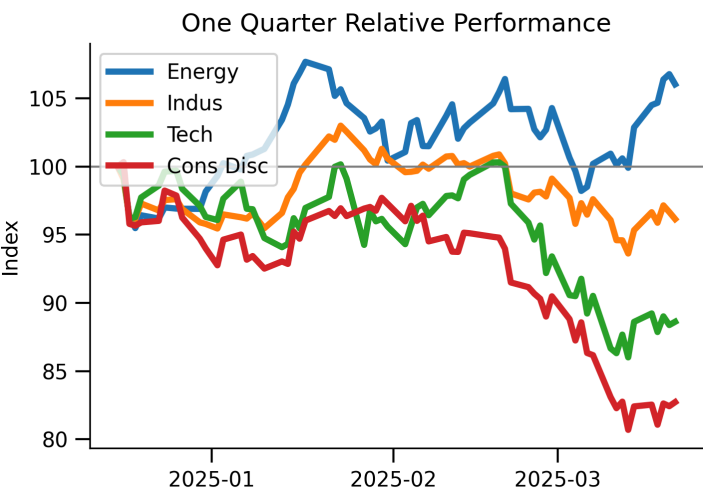
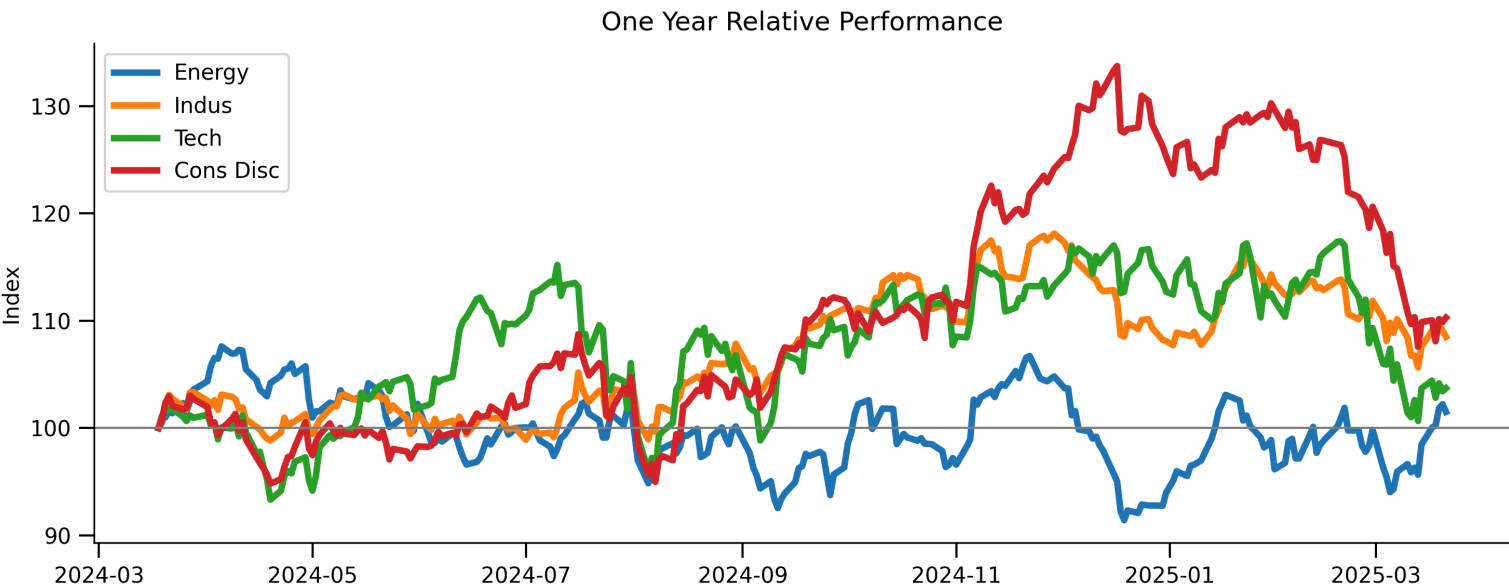
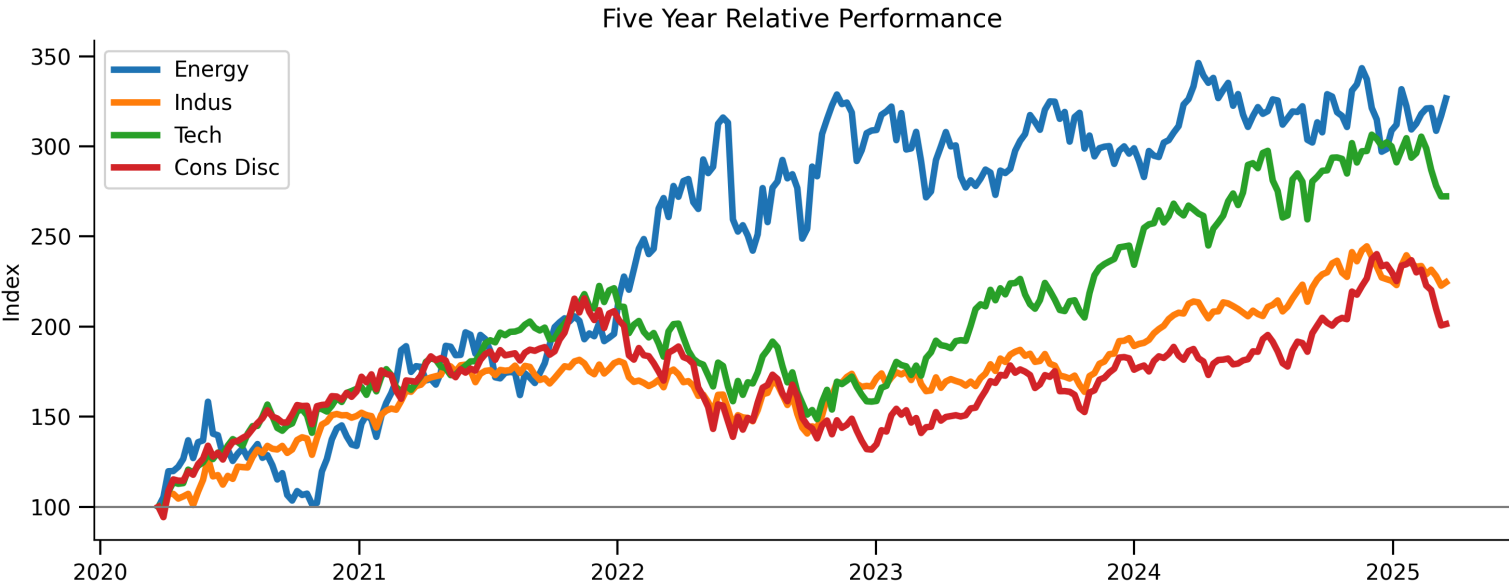
Cryptocurrency Performance



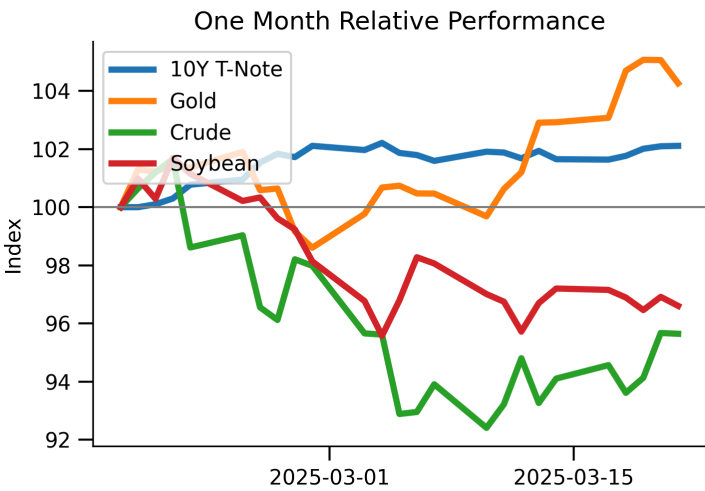
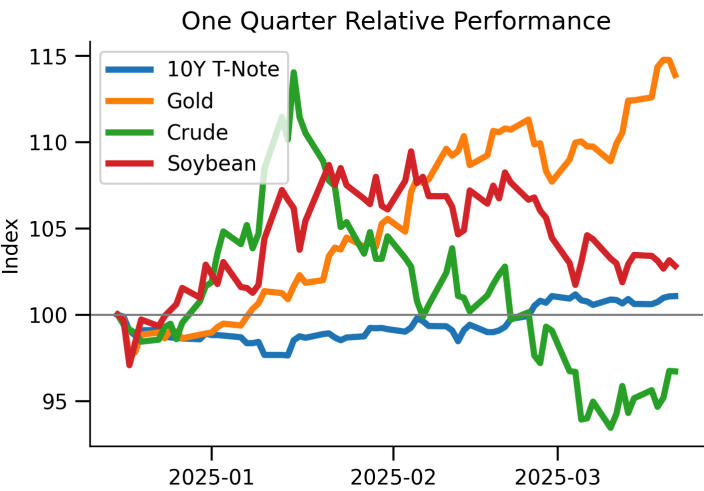
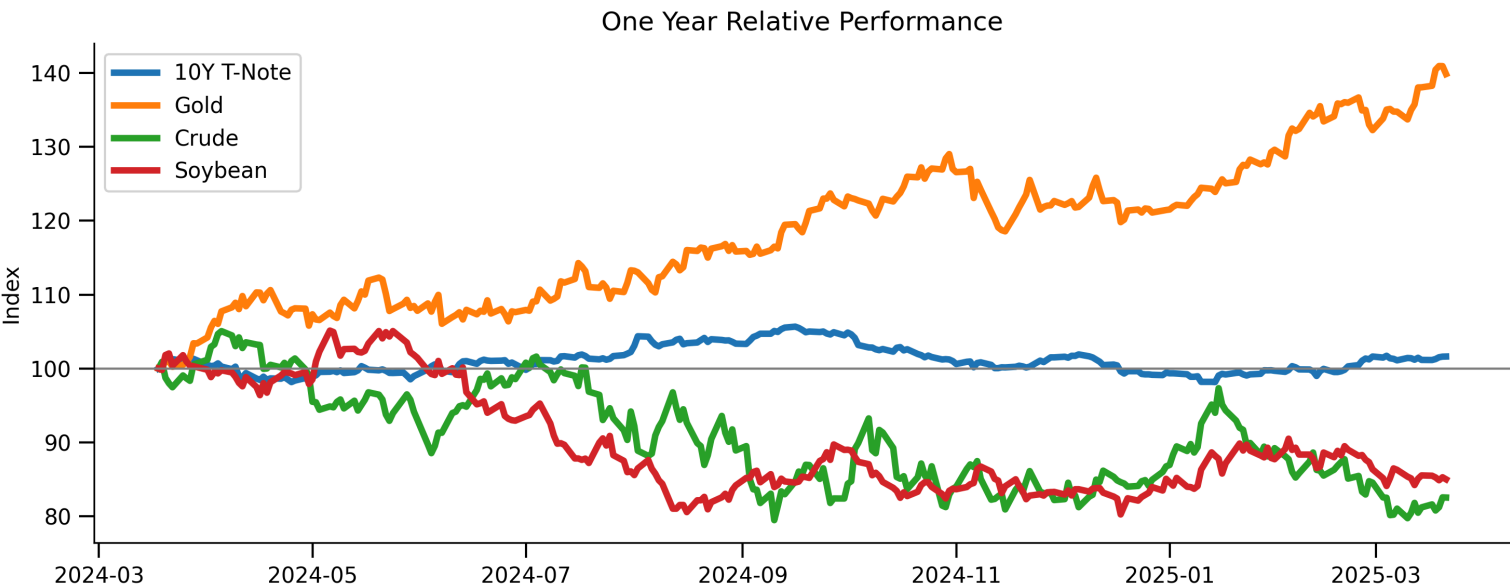
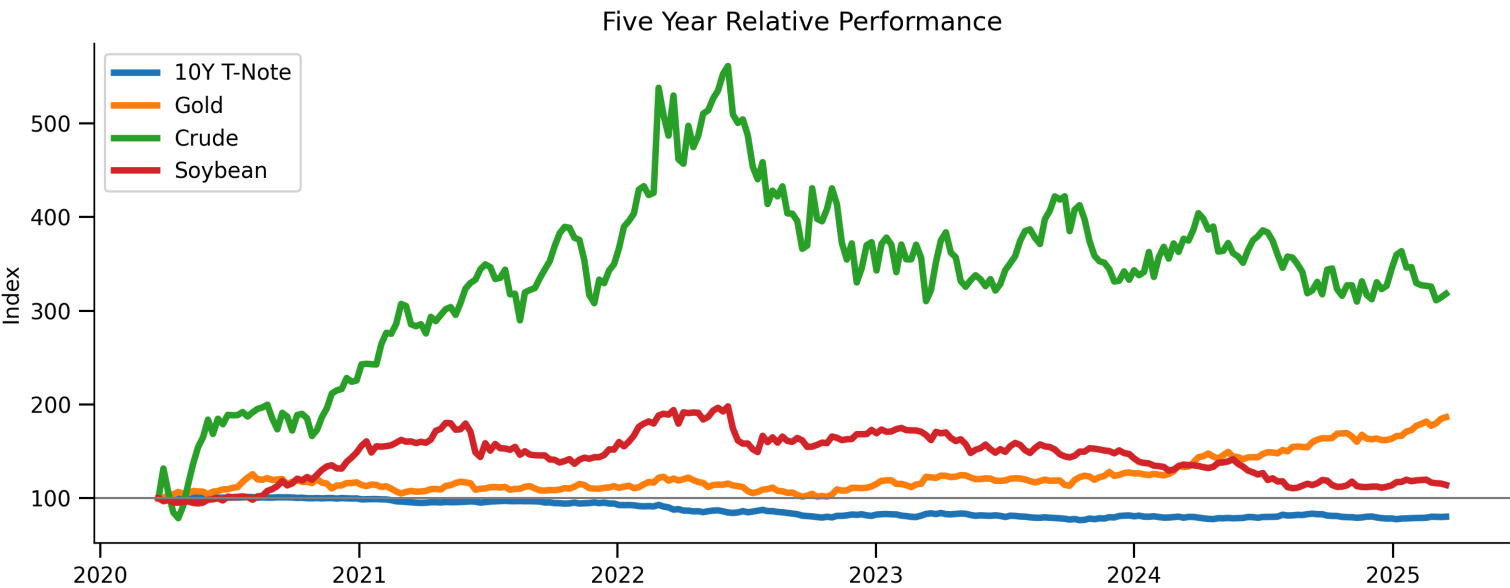
Global Equities Performance



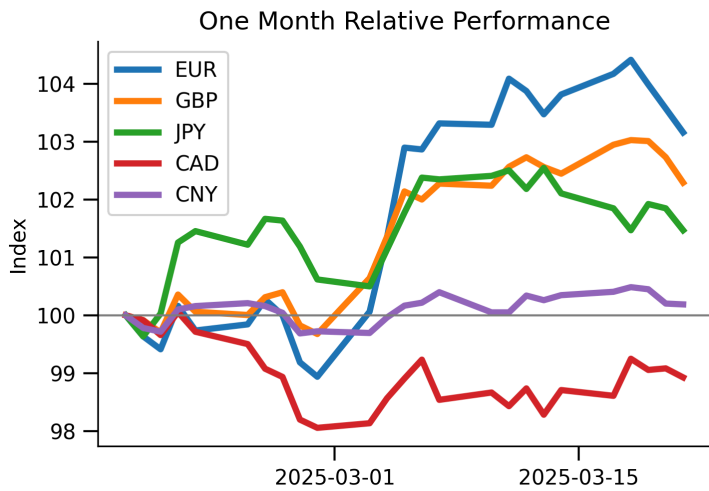
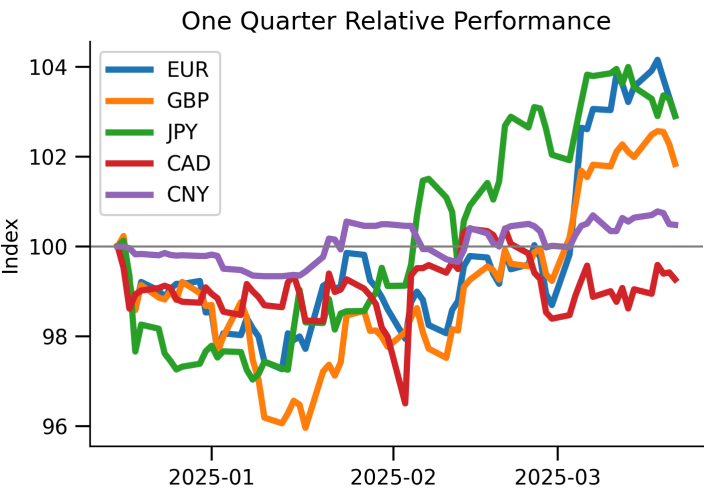
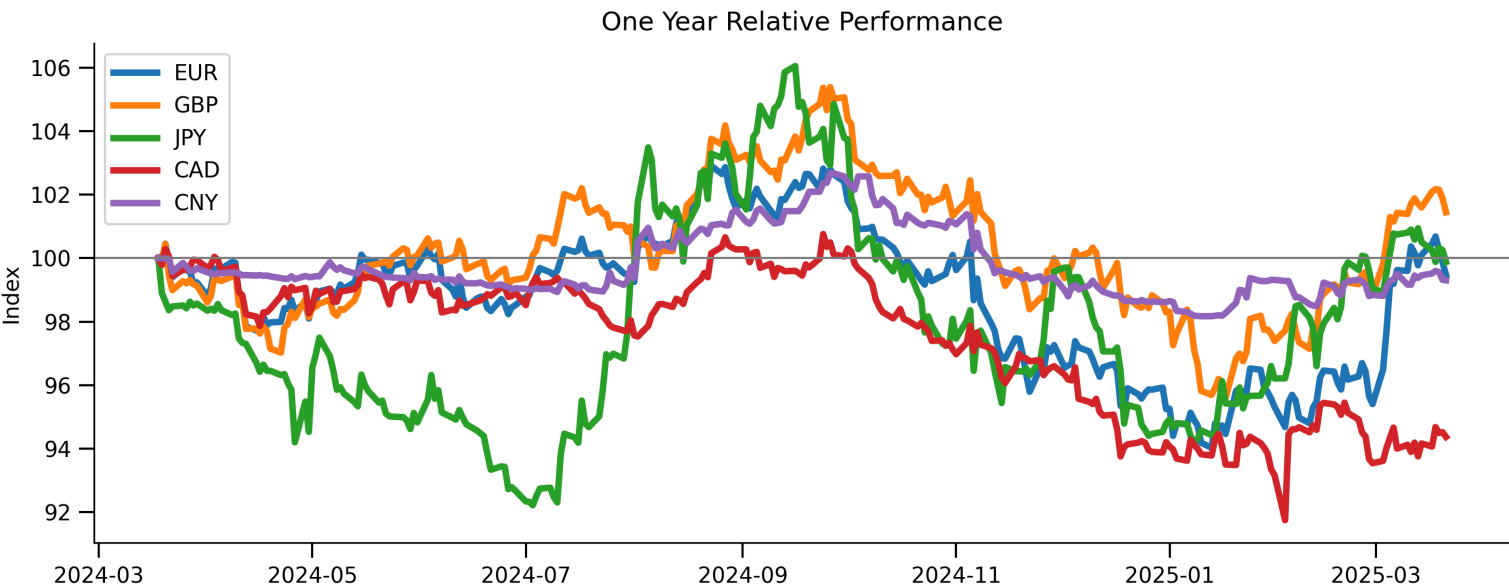
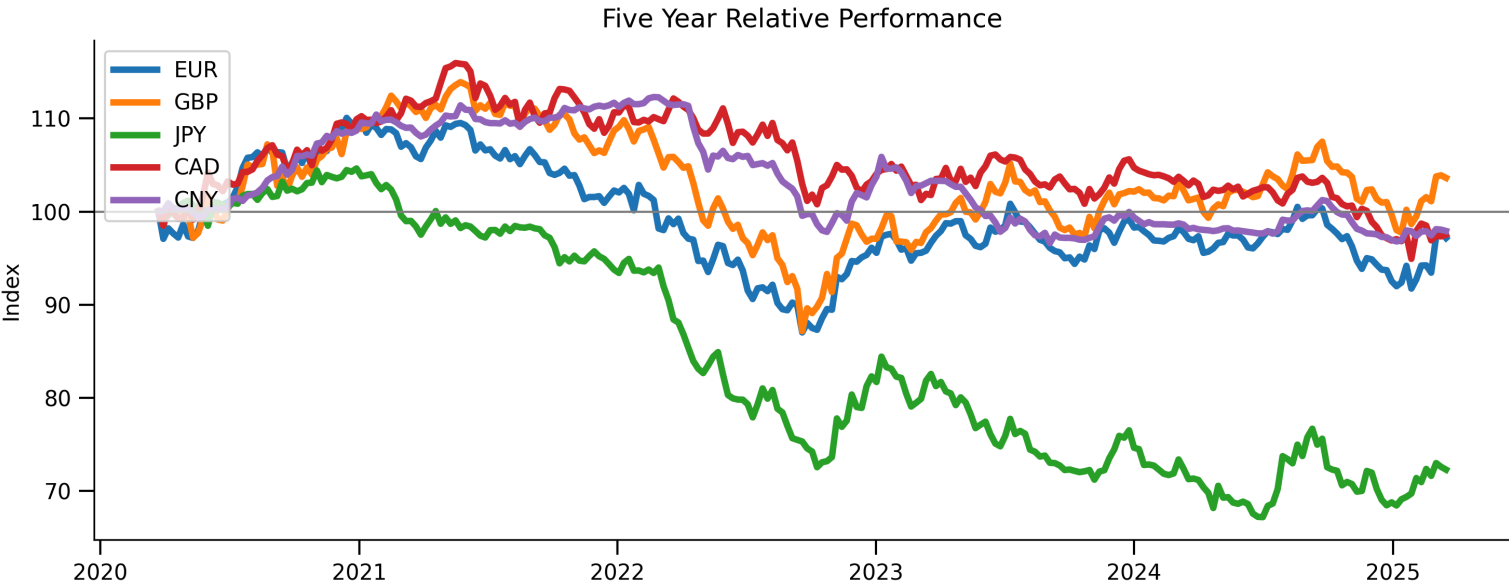
US Sector Performance



Commodities Performance

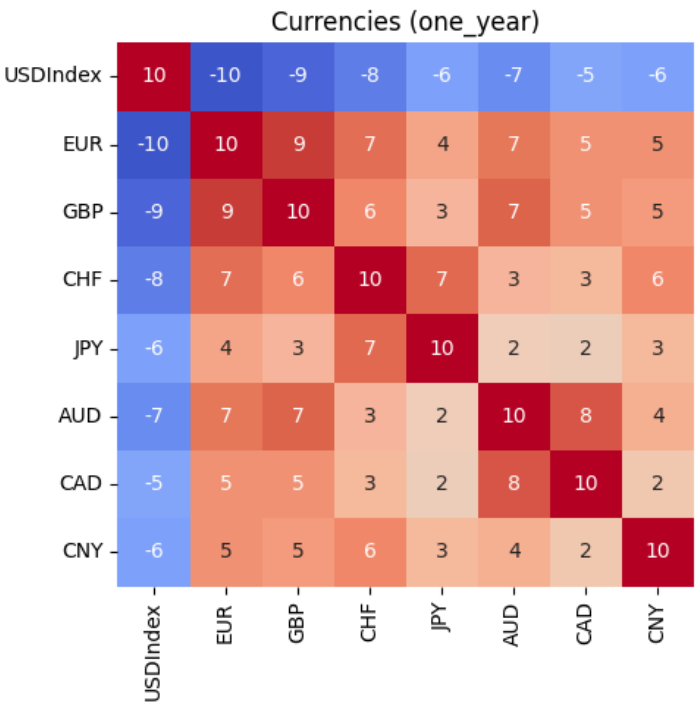
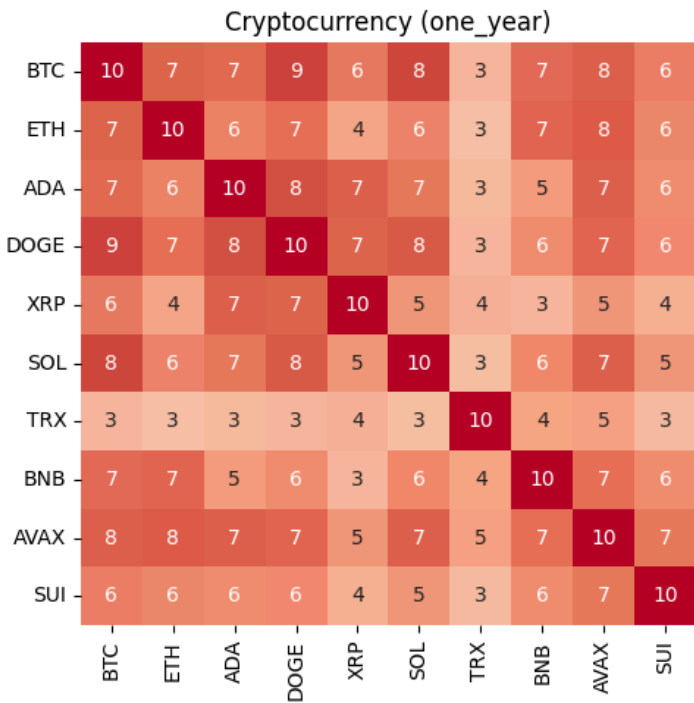
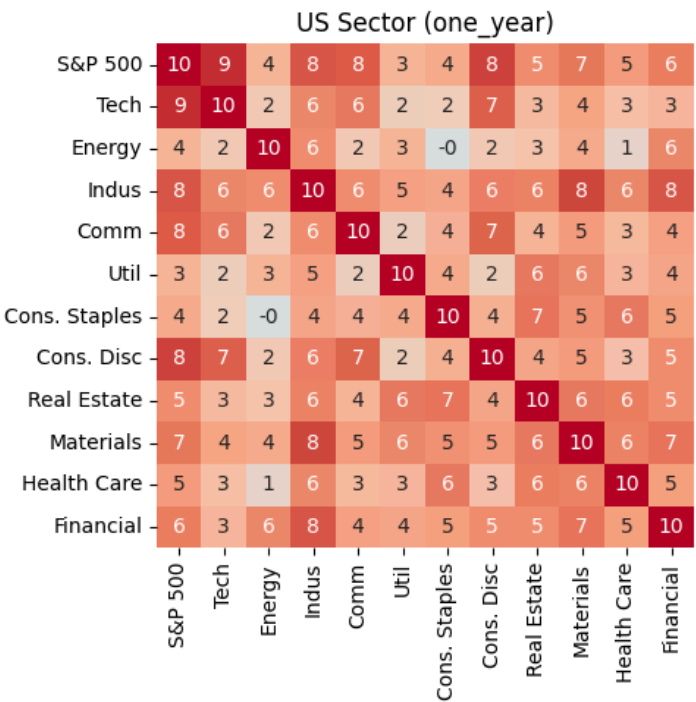
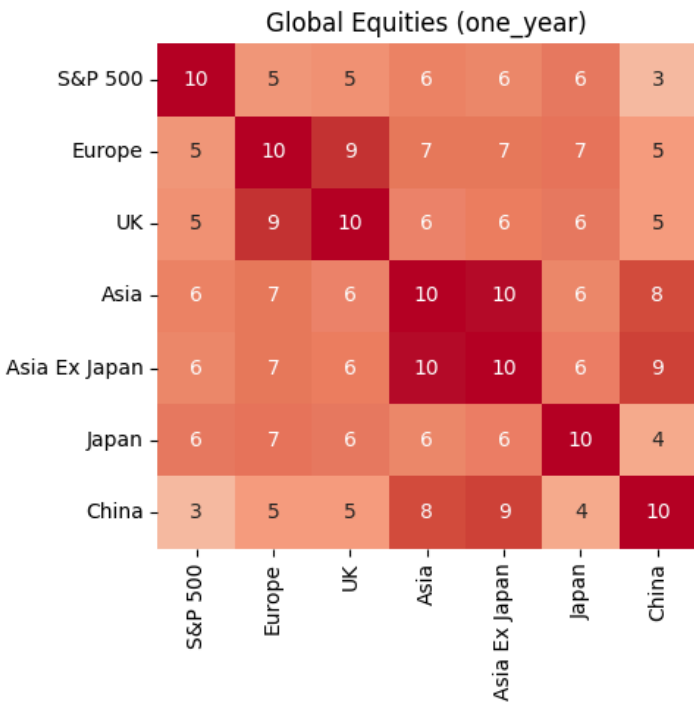


Currencies Performance



Asset Class Correlations

Long-term (1 year) Correlations



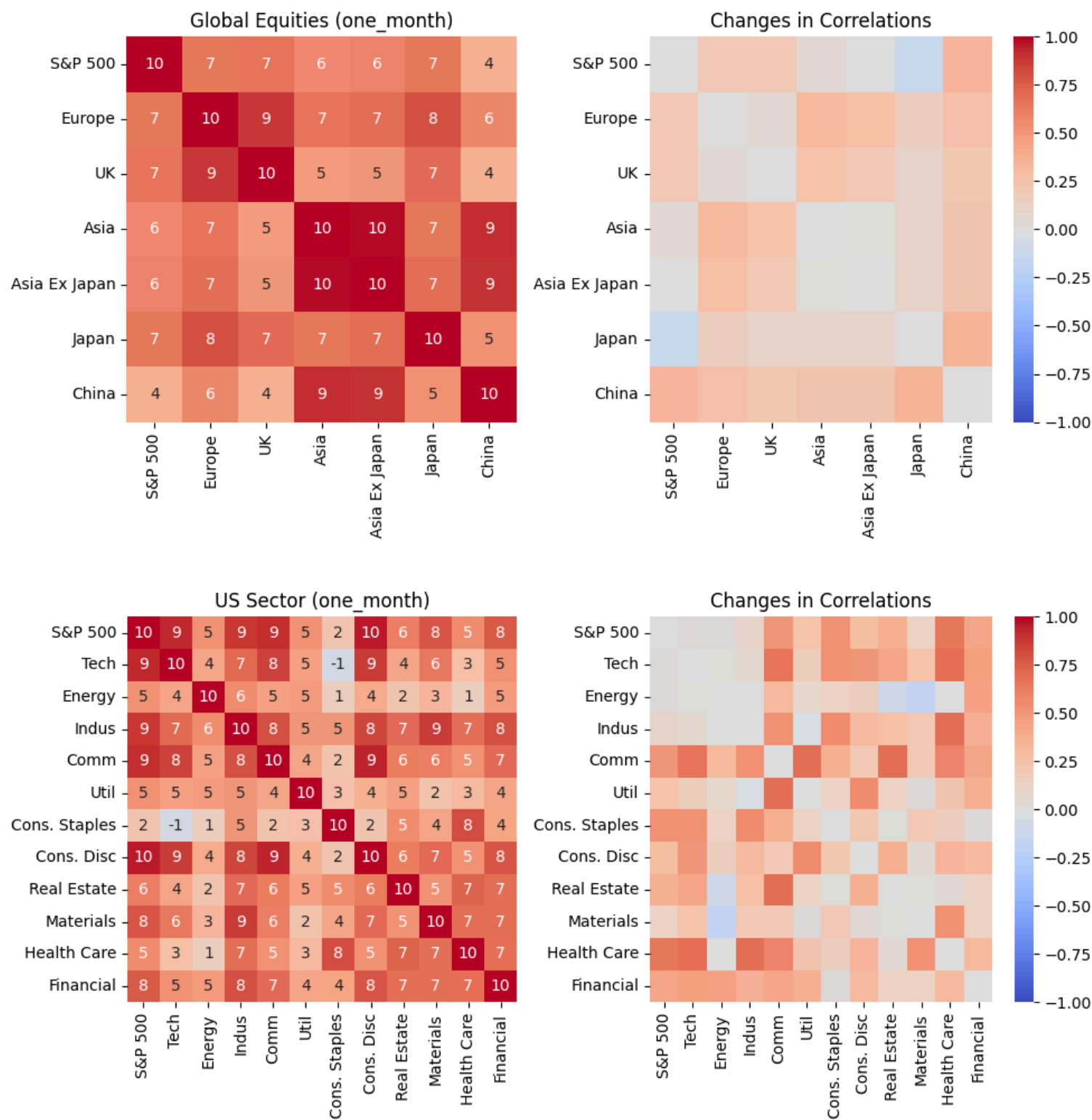
Asset Class Correlations

Long-term (1 year) Correlations

		All Assets (one_year)																																																	
S&P 500	10	9	4	8	8	3	4	8	5	7	5	6	5	5	6	6	6	3	2	1	2	2	2	1	2	1	1	-1	-1	1	3	-1	-1	5	3	-0	3	5	3	2	1	4	2	4	4	2					
Tech	9	10	2	6	6	2	2	7	3	4	3	3	4	4	7	6	6	3	1	1	3	2	3	2	2	2	0	0	-1	1	3	-1	-2	5	3	-1	2	4	1	1	0	2	2	3	2	1					
Energy	4	2	10	6	2	3	-0	2	3	4	1	6	1	2	1	1	3	2	-3	1	1	6	6	-1	-0	1	0	-1	-2	-1	-1	-3	-3	2	3	-2	4	3	4	3	2	5	0	3	3	3					
Indus	8	6	6	10	6	5	4	6	6	8	6	8	5	5	4	4	5	2	1	1	-0	2	2	-0	1	0	0	-1	-1	1	2	-1	-1	4	3	-0	4	5	4	3	2	5	1	4	4	3					
Comm	8	6	2	6	10	2	4	7	4	5	3	4	5	4	5	5	5	3	2	1	2	2	2	1	3	3	2	-1	-1	1	2	0	-0	4	2	1	2	3	2	2	1	1	3	2	3	1					
Util	3	2	3	5	2	10	4	2	6	6	3	4	3	4	2	3	1	3	4	3	3	-1	-1	2	0	1	0	-1	-2	1	2	2	3	4	4	3	2	2	3	3	2	3	-1	1	2	0					
Cons. Staples	4	2	-0	4	4	4	10	4	7	5	6	5	5	6	2	2	2	5	1	0	-2	-3	-0	0	-1	0	-1	-3	2	3	3	3	3	2	2	1	2	2	1	1	1	1	1	4	-0						
Cons. Disc	8	7	2	6	7	2	4	10	4	5	3	5	4	4	5	5	5	2	1	-1	1	1	1	2	1	1	-1	0	-1	-2	-1	3	1	-1	4	5	4	3	2	4	4	4	2	3							
Real Estate	5	3	3	6	4	6	7	4	10	6	6	5	4	5	2	3	3	1	6	1	1	-1	-2	1	-0	-1	-1	-2	-3	2	3	3	4	3	3	1	3	3	4	3	2	5	1	2	3	1					
Materials	7	4	4	8	5	6	5	5	6	10	6	7	6	7	4	5	5	3	2	3	2	1	0	1	2	0	0	-1	-3	2	3	2	1	5	3	2	3	3	3	2	2	4	0	3	2	0					
Health Care	5	3	1	6	3	3	6	3	6	6	10	5	5	5	2	3	4	1	4	2	-0	0	-0	-0	-0	-0	-0	-1	-3	2	4	2	3	2	2	2	0	2	1	-1	-1	1	-0	1	1	-0					
Financial	6	3	6	8	4	4	5	5	5	7	5	10	3	4	1	1	4	1	1	-0	-1	1	1	-2	1	0	-1	-3	2	-2	0	-3	-2	1	1	-2	5	4	5	4	3	6	2	3	4	3					
Europe	5	4	1	5	5	3	5	4	6	5	3	10	9	7	7	7	5	1	2	3	-1	-1	2	2	1	1	0	-6	6	7	3	2	6	4	4	0	1	0	-1	0	1	3	2	1	-1						
UK	5	4	2	5	4	4	6	4	5	7	5	4	9	10	6	6	6	5	3	2	3	-0	-1	2	1	0	1	-2	-5	4	6	2	2	6	3	3	1	1	1	0	1	2	2	2	1	-1					
Asia	6	7	1	4	5	2	2	5	2	4	2	1	7	6	10	10	6	8	0	3	3	1	2	2	1	3	2	2	-4	4	5	1	0	7	4	3	0	1	-1	-1	-1	0	2	1	0	0					
Asia Ex Japan	6	6	1	4	5	3	2	5	3	5	3	1	7	6	10	10	6	9	1	3	3	1	2	2	1	3	2	2	-4	4	6	2	1	7	4	4	1	2	-0	-0	-1	1	2	3	4	1					
Japan	6	6	3	5	5	1	2	5	3	5	4	4	7	6	6	6	10	4	0	1	1	1	1	1	1	3	2	-0	-4	4	6	0	1	6	3	1	2	3	1	1	1	2	3	4	4	1					
China	3	3	2	2	3	3	2	2	1	3	1	1	5	5	8	9	4	10	0	2	2	1	1	2	0	2	3	2	-3	3	4	1	-0	5	3	4	-0	-0	-1	-1	-1	0	1	0	-0	0					
30Y T-Bond	2	1	-3	1	2	4	5	1	6	2	4	1	1	3	0	1	0	0	10	1	1	-3	-4	1	-0	-1	1	-1	-4	2	3	5	7	1	1	3	-0	0	2	0	1	1	1	-1	1	-1					
Gold	1	1	1	1	1	3	1	-1	1	3	2	-0	2	2	3	3	1	2	1	10	8	3	3	5	3	1	1	-0	-3	2	2	1	1	4	4	3	-1	-2	-2	-3	-1	-1	-0	-1	-2						
Silver	2	3	1	-0	2	3	0	1	1	2	-0	-1	3	3	3	3	1	2	1	8	10	2	1	7	4	-0	0	-0	-2	2	2	-0	1	4	2	1	-0	-1	-2	-1	-2	-1	-0	-1	-1	-2					
Crude	2	2	6	2	2	-1	-2	1	-1	1	0	1	-1	-0	1	1	1	1	-3	3	2	10	10	1	-1	1	-1	-1	3	-3	-3	-5	-5	1	0	-2	0	1	1	-1	-1	0	-1	0	0	2					
BrentOil	2	3	6	2	2	-1	-3	1	-2	0	-0	1	-1	-1	2	2	1	1	-4	3	1	10	10	0	-1	1	-0	-1	3	-3	-2	-5	-5	1	1	-1	0	0	-0	-1	-1	-0	-0	0	1						
Platinum	1	2	-1	-0	1	2	-0	1	1	1	-0	-2	2	2	2	2	1	2	1	5	7	1	0	10	2	-1	2	1	1	0	1	-1	1	2	0	1	-1	-2	-2	-1	-2	-1	-2	-2	-2	-4					
Coffee	2	2	-0	1	3	0	0	-2	-0	2	-0	1	2	1	1	1	0	-0	-3	4	-1	-1	2	10	-1	-2	-1	0	0	1	-0	1	1	1	1	1	1	1	2	2	2	3	-0	2	1	-0	0				
Sugar	1	2	1	0	3	1	-1	1	-1	0	-0	0	1	0	3	3	3	2	-1	1	-0	1	-1	-1	-1	-1	-1	1	1	2	1	-1	-1	3	2	3	2	1	-0	-1	-0	2	3	2	2						
Soybean	1	0	0	0	2	0	0	1	-1	0	0	-1	1	1	2	2	1	3	1	1	0	-1	-0	2	-2	2	10	2	-2	2	2	1	1	2	2	2	-1	1	-1	0	-2	0	-1	0	2	-1					
Nat Gas	-1	0	-1	-1	-1	-1	-1	-2	-1	-1	-3	0	-2	2	2	-0	2	-1	-0	-0	-1	-1	1	-1	1	2	10	-1	2	1	2	1	2	2	1	0	-1	0	0	0	-1	-1	-0	-1	1						
USDIndex	-1	-1	2	-1	-1	-2	-3	0	-3	-3	-3	2	-6	-5	-4	-4	-3	-4	-3	-2	3	3	-1	-0	-1	-2	-1	10	-10	-9	-8	-6	-7	-5	-6	1	0	2	2	1	1	-1	-0	-1	1						
EUR	1	1	-1	1	1	1	2	-1	2	2	2	-2	6	4	4	4	4	3	2	2	2	-3	-3	0	0	1	2	2	10	10	9	7	4	7	5	5	-1	-1	-2	-2	-1	-1	1	0	0	-1					
GBP	3	3	-1	2	2	2	3	2	3	3	4	0	7	6	5	6	6	4	3	2	2	-3	-2	1	1	2	2	1	-9	9	10	6	3	7	5	5	-0	2	-1	-1	-1	-0	2	2	1	-1					
CHF	-1	-1	-3	-1	0	2	3	-2	3	2	2	-3	3	2	1	2	0	1	5	1	-0	-5	-5	-1	-0	1	1	2	-8	7	6	10	7	3	3	6	-2	-2	-1	-2	-1	-1	1	-1	0	-2					
JPY	-1	-2	-3	-1	-0	3	3	-1	4	1	3	-2	2	2	0	1	1	-0	7	1	1	-5	-5	1	1	-1	1	1	-6	4	3	7	10	2	2	3	-0	-0	0	0	1	0	0	-1	1	-0					
AUD	5	5	2	4	4	4	3	3	5	2	1	6	6	7	7	6	5	1	4	4	1	1	2	1	3	2	2	-7	7	7	3	2	10	8	4	1	1	-0	0	-1	1	1	1	2	0						
CAD	3	3	3	3	2	4	2	1	3	3	2	1	4	3	4	4	3	3	1	4	2	0	1	0	1	2	2	2	-5	5	5	3	2	8	10	2	1	1	-0	0	-0	1	1	2	1	0					
CNY	-0	-1	-2	-0	1	3	2	-1	1	2	2	-2	4	3	3	4	1	4	3	3	1	-2	-1	1	-1	3	2	1	-6	5	5	6	3	4	2	10	-3	-3	-3	-4	-3	-3	-0	-2	-2	-2					
BTC	3	2	4	4	2	2</																																													

Asset Class Correlations

Short-term (1 month) Correlations and Changes in Correlations from 1 Month Ago



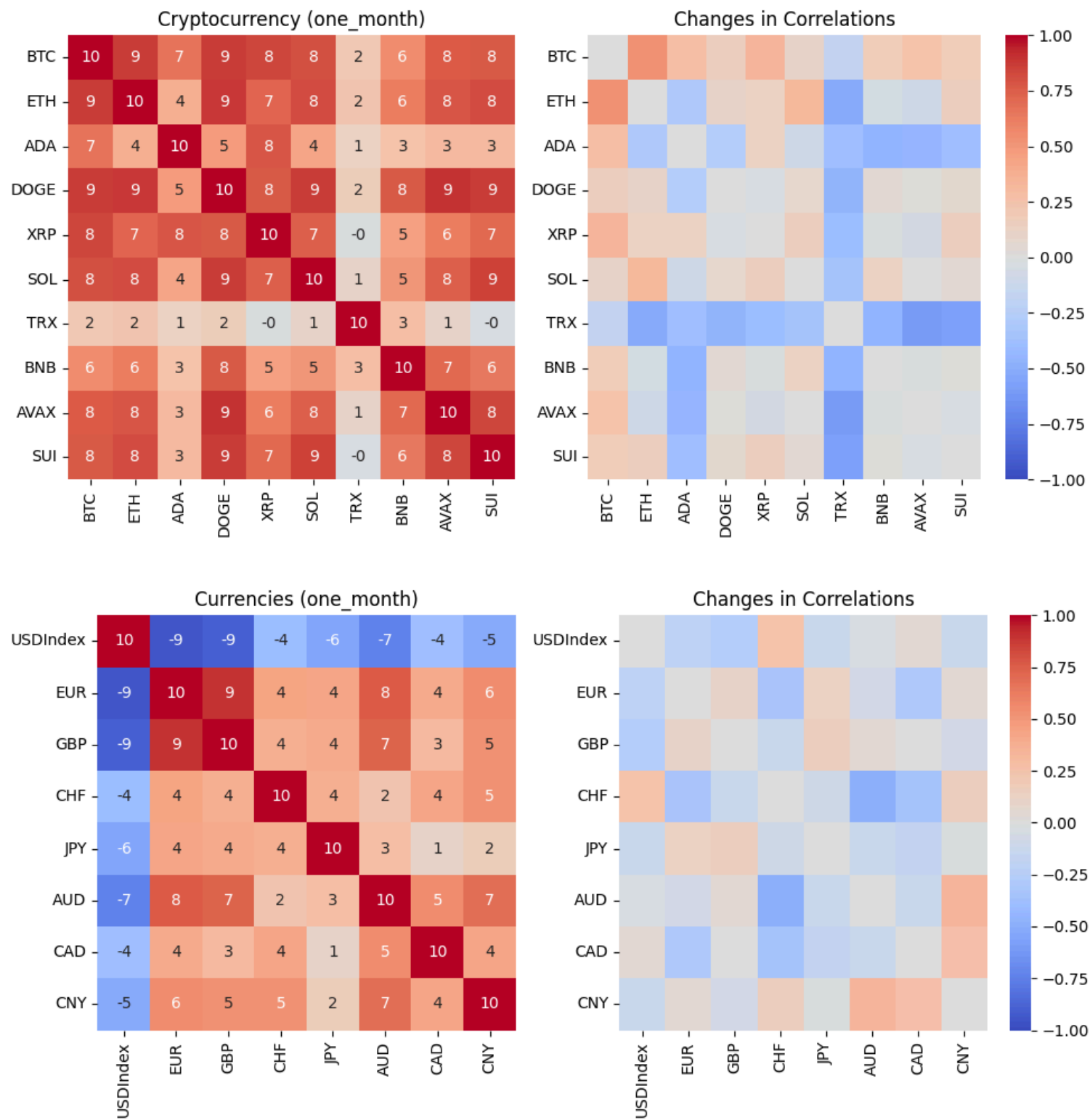
US Sector (one_month)

S&P 500	10	9	5	9	9	5	2	10	6	8	5	8
Tech	9	10	4	7	8	5	-1	9	4	6	3	5
Energy	5	4	10	6	5	5	1	4	2	3	1	5
Indus	9	7	6	10	8	5	5	8	7	9	7	8
Comm	9	8	5	8	10	4	2	9	6	6	5	7
Util	5	5	5	5	4	10	3	4	5	2	3	4
Cons. Staples	2	-1	1	5	2	3	10	2	5	4	8	4
Cons. Disc	10	9	4	8	9	4	2	10	6	7	5	8
Real Estate	6	4	2	7	6	5	5	6	10	5	7	7
Materials	8	6	3	9	6	2	4	7	5	10	7	7
Health Care	5	3	1	7	5	3	8	5	7	7	10	7
Financial	8	5	5	8	7	4	4	8	7	7	7	10
	S&P 500	Tech	Energy	Indus	Comm	Util	Cons. Staples	Cons. Disc	Real Estate	Materials	Health Care	Financial

Changes in Correlations

Asset Class Correlations

Short-term (1 month) Correlations and Changes in Correlations from 1 Month Ago



Asset Class Correlations

Short-term (1 month) Correlations

All Assets (one_month)																																															
S&P 500	10	9	5	9	9	5	2	10	6	8	5	8	7	7	6	6	7	4	-2	-1	0	2	1	-2	1	2	1	-1	0	0	0	-3	-2	4	0	5	4	5	0	5	2	5	2	4	6	6	
Tech	9	10	4	7	8	5	-1	9	4	6	3	5	6	6	7	7	6	5	-2	1	2	2	1	0	2	2	1	0	-1	1	1	-1	-1	4	1	6	4	5	0	6	2	5	2	5	6	5	
Energy	5	4	10	6	5	5	1	4	2	3	1	5	-0	1	0	0	-0	-0	-2	-2	-4	6	6	-4	-3	4	1	-1	5	-5	-5	-3	-4	-1	-0	0	-0	1	-5	0	-2	2	0	-0	0	2	
Indus	9	7	6	10	8	5	5	8	7	9	7	8	6	6	5	5	7	4	-1	-3	-2	1	1	-4	-0	2	3	-0	0	-1	-0	-4	-2	2	-1	3	3	4	-1	4	1	4	-0	2	5	5	
Comm	9	8	5	8	10	4	2	9	6	6	5	7	6	6	4	5	6	2	-4	-1	-1	3	2	-4	2	-0	-0	-1	0	0	0	-3	-3	3	1	4	4	4	1	4	1	4	2	3	5	4	
Util	5	5	5	5	4	10	3	4	5	2	3	4	3	4	1	1	2	-1	1	0	-1	-0	0	-2	1	3	-1	-1	1	-1	0	-4	-3	0	-1	-0	-2	-1	-1	-2	-2	0	-1	-2	-2	-0	
Cons. Staples	2	-1	1	5	2	3	10	2	5	4	8	4	3	3	-1	-1	2	-1	1	-4	-4	-3	-2	-5	-1	2	2	1	-1	1	0	-3	-1	1	-3	-1	0	1	0	0	1	-2	-0	-1	1		
Cons. Disc	10	9	4	8	9	4	2	10	6	7	5	8	6	6	5	5	7	3	-2	-2	-1	2	1	-3	2	0	1	-1	0	-0	-4	-2	3	0	4	5	6	1	6	3	5	1	3	6	6		
Real Estate	6	4	2	7	6	5	5	6	10	5	7	7	7	8	3	3	6	2	-1	-2	-2	0	0	-3	2	-0	-2	1	-1	2	3	-4	-4	3	-1	1	2	2	3	2	1	2	-0	2	2	2	
Materials	8	6	3	9	6	2	4	7	5	10	7	7	7	6	6	6	6	6	-1	-1	1	-1	-1	-2	0	3	5	-0	-2	2	1	-2	1	4	-0	4	3	5	-2	4	1	4	1	4	6	6	
Health Care	5	3	1	7	5	3	8	5	7	7	10	7	6	6	1	2	4	1	1	-2	-1	-2	-2	-4	0	1	2	-1	-2	2	2	-2	-2	3	-0	2	2	2	1	2	1	2	1	2	2	3	
Financial	8	5	5	8	7	4	4	8	7	7	7	10	4	5	1	2	5	1	-1	-2	-2	2	2	-5	-1	0	2	-4	3	-3	-3	-6	-5	0	-2	0	3	3	-0	3	1	4	0	2	5	5	
Europe	7	6	-0	6	6	3	3	6	7	7	6	4	10	9	7	7	8	6	-2	2	4	-3	-3	2	3	-0	1	1	-6	6	6	1	0	7	2	7	5	5	4	5	3	4	2	4	5	5	
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Japan	7	6	-0	7	6	2	7	6	6	4	5	8	7	7	7	10	5	-3	1	2	-1	-1	1	2	0	2	-0	-4	3	4	-1	0	6	1	5	5	5	4	6	5	4	-0	5	6	5		
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Gold	-1	1	-2	-3	-1	0	-4	-2	-2	-1	-2	-2	2	2	1	2	1	1	1	10	8	-1	-1	6	4	-0	-0	-1	-4	3	4	4	1	3	4	4	2	2	4	1	3	-1	4	2	0	-0	
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Crude	2	2	6	1	3	-0	-3	2	0	-1	-2	2	-3	-0	-1	-1	-1	-2	-4	-1	-3	10	9	-4	-2	-0	-1	-2	6	-5	-5	-2	-4	-2	-2	-0	2	1	-2	2	-1	2	2	2	1	1	
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CHF	-3	-1	-3	-4	-3	-4	-3	-4	-4	-2	-2	-6	1	-0	1	1	-1	1	1	4	2	-2	-3	5	-0	0	-0	4	-4	4	4	10	4	2	4	5	-0	1	1	-0	0	-1	4	1	-2	-1	
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BTC	4	4	-0	3	4	-2	0	5	2	3	2	3	5	4	4	5																															