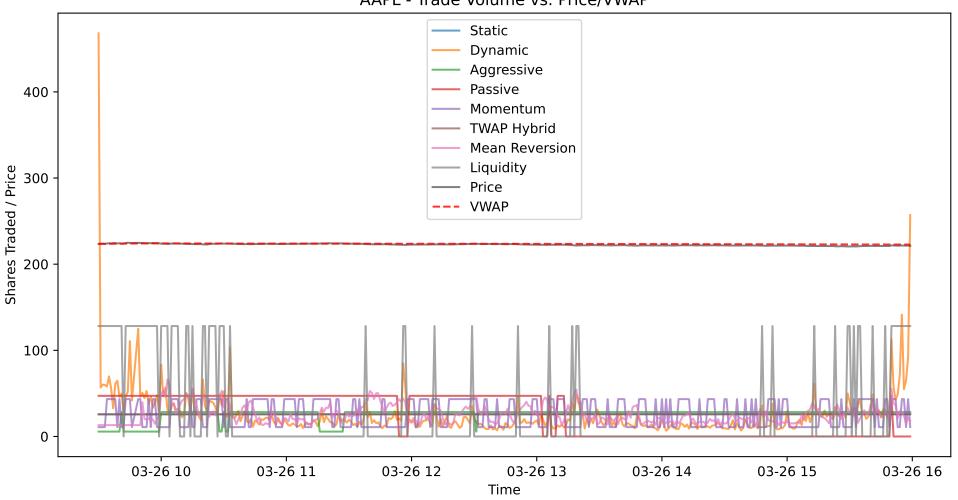
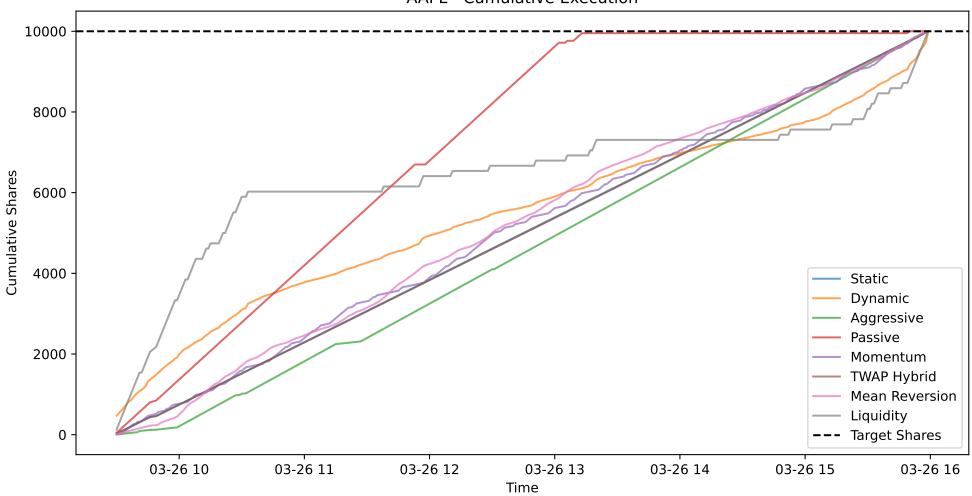
AAPL - Trade Volume vs. Price/VWAP



AAPL - Cumulative Execution

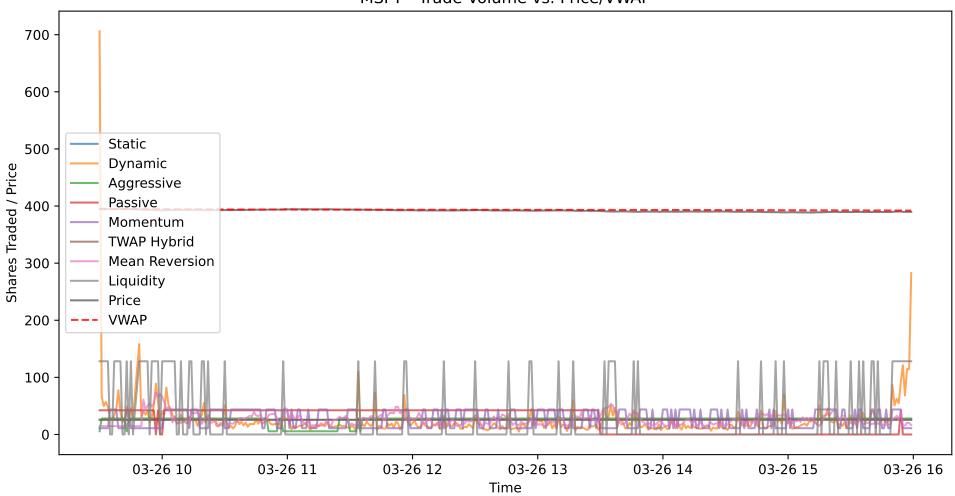


AAPL - Slippage vs. VWAP 0.6 0.4 -Slippage (\$) 0.2 -0.0 --0.2 ·

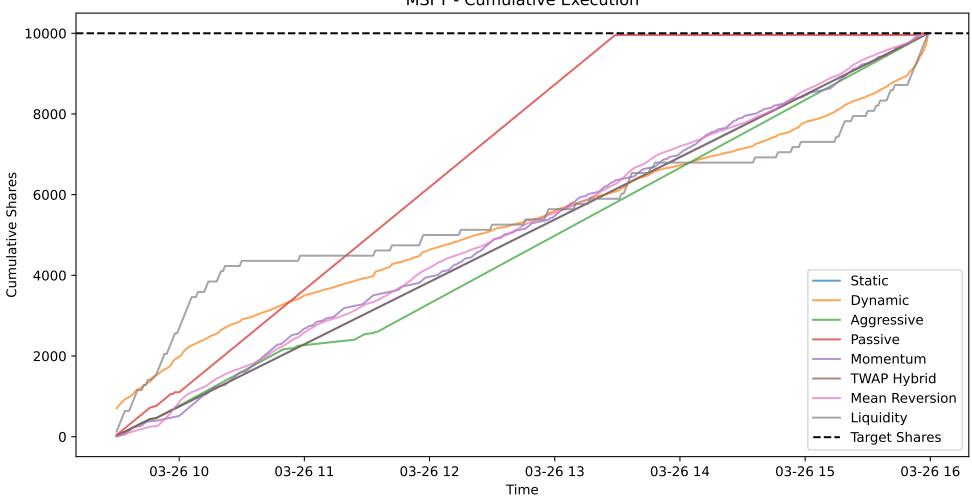
AAPL - Summary Stats

Strategy	Avg Price	Slippage
Static	222.65303590125643	-0.13467812250001998
Dynamic	222.78771402375642	-2.842170943040401e-14
Aggressive	222.49738057454425	-0.2903334492121985
Passive	223.50046913578822	0.7127551120317719
Momentum	222.75012711795964	-0.03758690579681456
TWAP Hybrid	222.64948855883958	-0.1382254649168715
Mean Reversion	222.69652928755417	-0.09118473620227974
Liquidity	223.09674443954077	0.30903041578432067

MSFT - Trade Volume vs. Price/VWAP



MSFT - Cumulative Execution

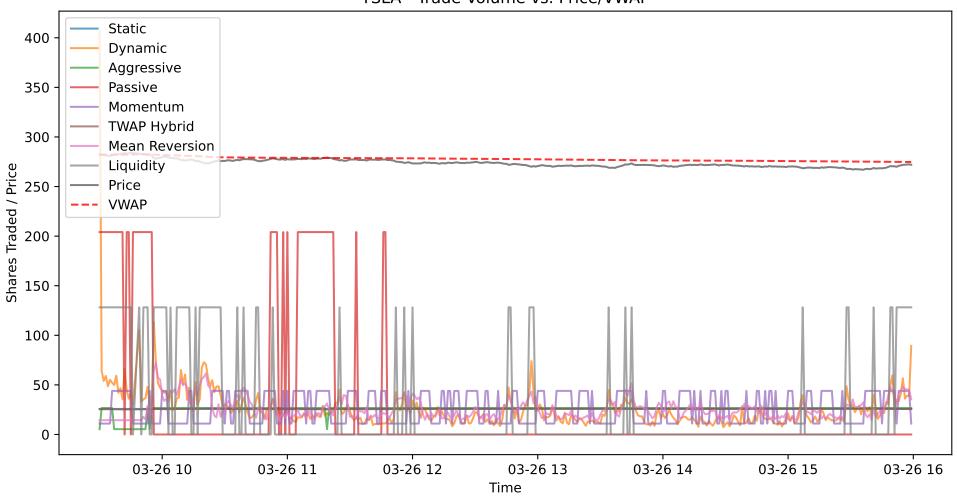


MSFT - Slippage vs. VWAP 1.0 -8.0 0.6 -Slippage (\$) 0.4 0.2 -0.0 --0.2 -0.4

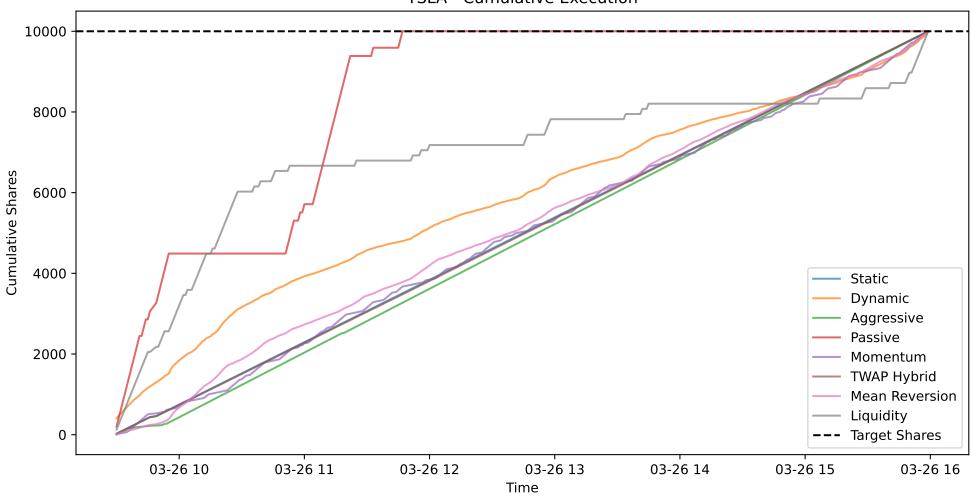
MSFT - Summary Stats

Strategy	Avg Price	Slippage
Static	391.82947225669	-0.1824672870520203
Dynamic	392.01193954374196	-5.684341886080802e-14
Aggressive	391.61749693524143	-0.394442608500583
Passive	393.08237198651835	1.0704324427763368
Momentum	391.9331546043905	-0.07878493935152164
TWAP Hybrid	391.8243480791697	-0.18759146457233555
Mean Reversion	391.8442662742894	-0.16767326945262084
Liquidity	391.8751283303285	-0.1368112134135231

TSLA - Trade Volume vs. Price/VWAP



TSLA - Cumulative Execution

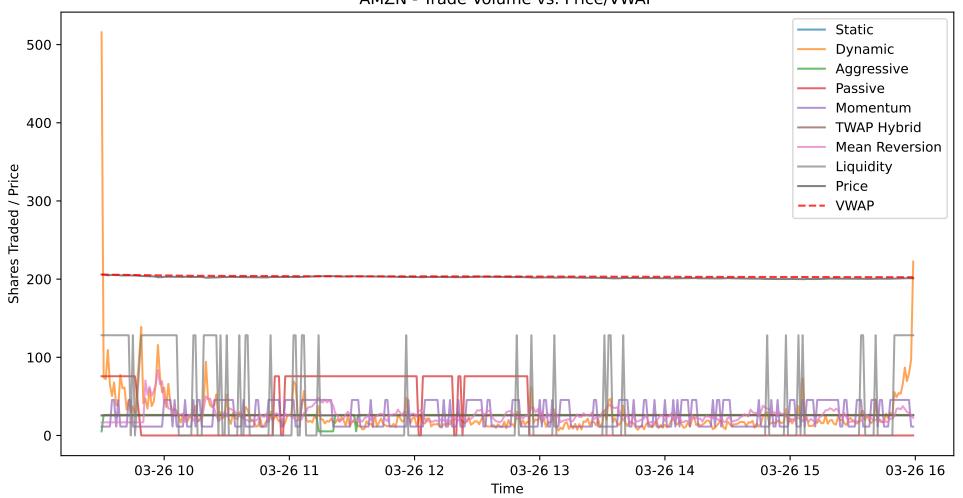


TSLA - Slippage vs. VWAP 5 -Slippage (\$) 2 -1 -1

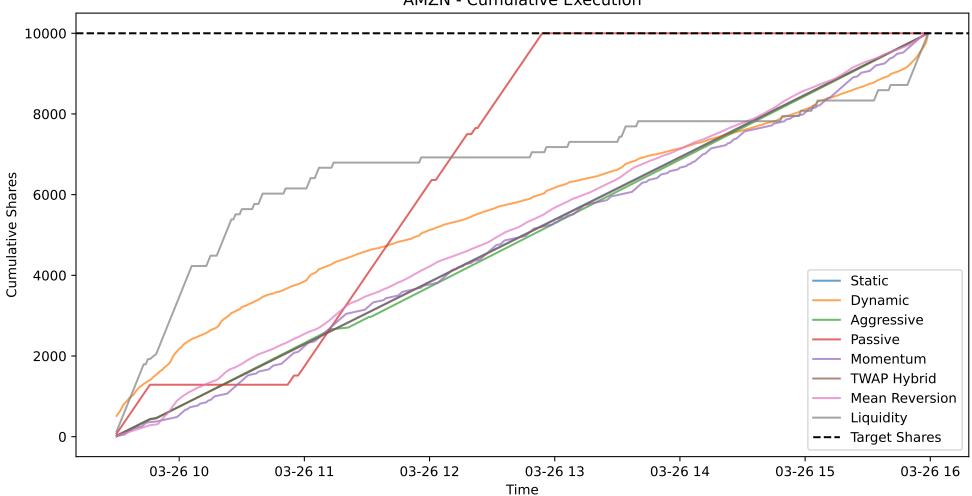
TSLA - Summary Stats

Strategy	Avg Price	Slippage
Static	273.66390881095964	-1.1121079879374065
Dynamic	274.7760167988971	5.684341886080802e-14
Aggressive	273.33169676299786	-1.4443200358991817
Passive	279.96720419124676	5.191187392349718
Momentum	273.8754570258842	-0.9005597730128443
TWAP Hybrid	273.6359830252268	-1.1400337736702681
Mean Reversion	273.67424276432104	-1.1017740345760103
Liquidity	276.39039259690503	1.614375798007984

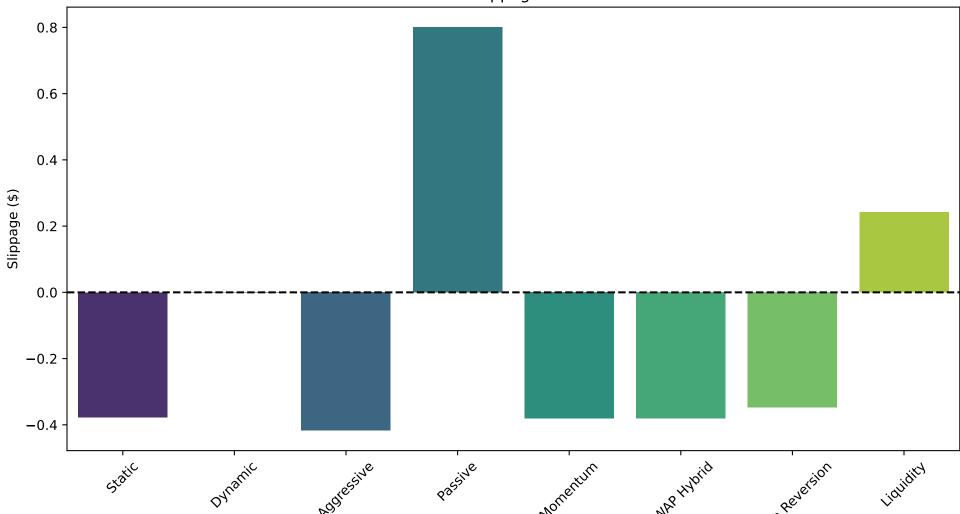
AMZN - Trade Volume vs. Price/VWAP



AMZN - Cumulative Execution



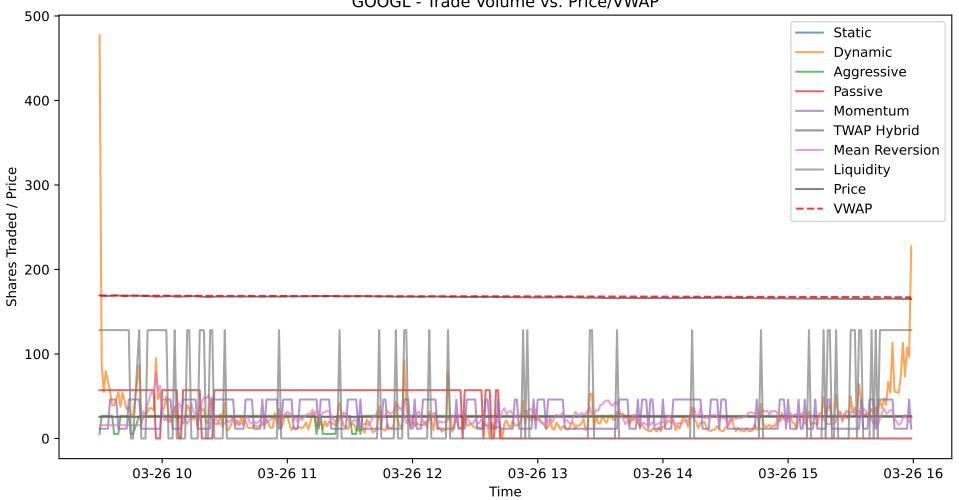
AMZN - Slippage vs. VWAP



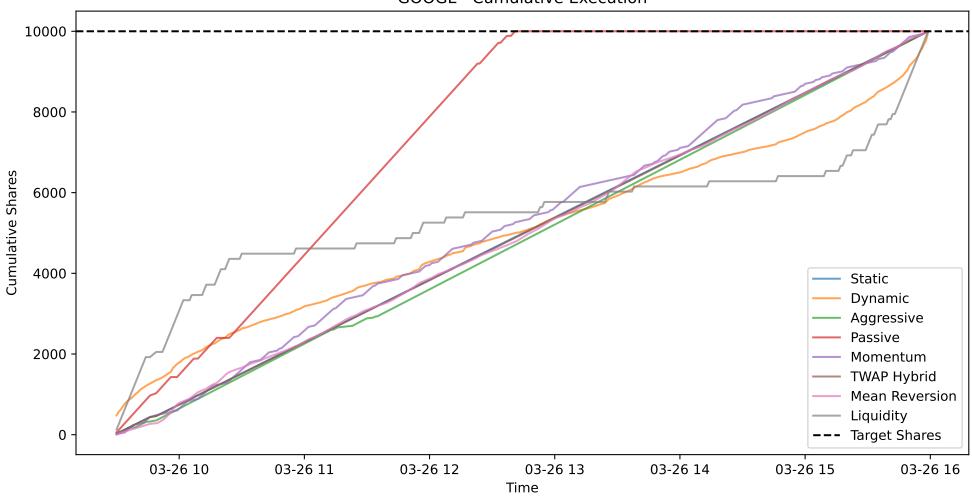
AMZN - Summary Stats

Strategy	Avg Price	Slippage
Static	202.08812957449058	-0.3772907837644084
Dynamic	202.465420358255	0.0
Aggressive	202.04835246839016	-0.4170678898648248
Passive	203.2657667217832	0.800346363528206
Momentum	202.08425157720396	-0.3811687810510307
TWAP Hybrid	202.08415290366975	-0.3812674545852417
Mean Reversion	202.11778505434543	-0.34763530390955566
Liquidity	202.7084507086338	0.2430303503788025

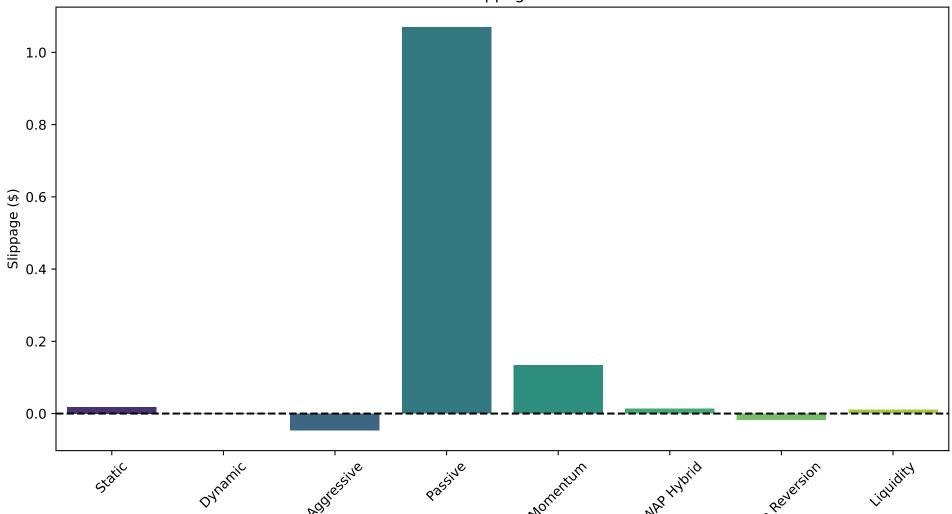
GOOGL - Trade Volume vs. Price/VWAP



GOOGL - Cumulative Execution

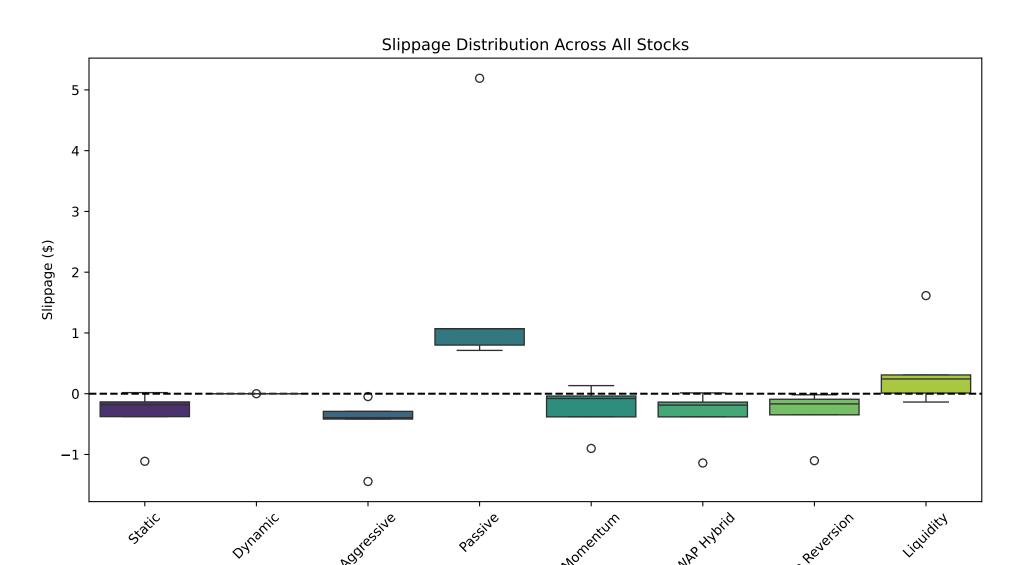


GOOGL - Slippage vs. VWAP

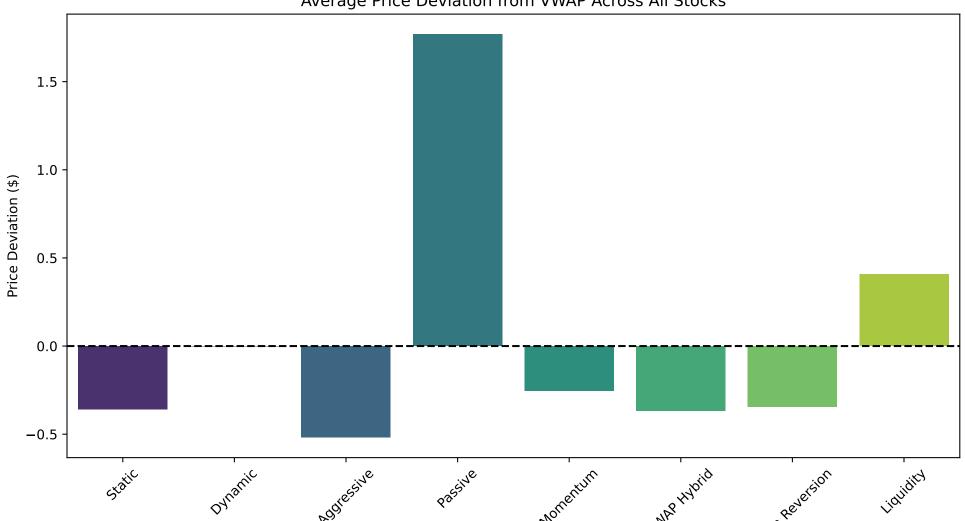


GOOGL - Summary Stats

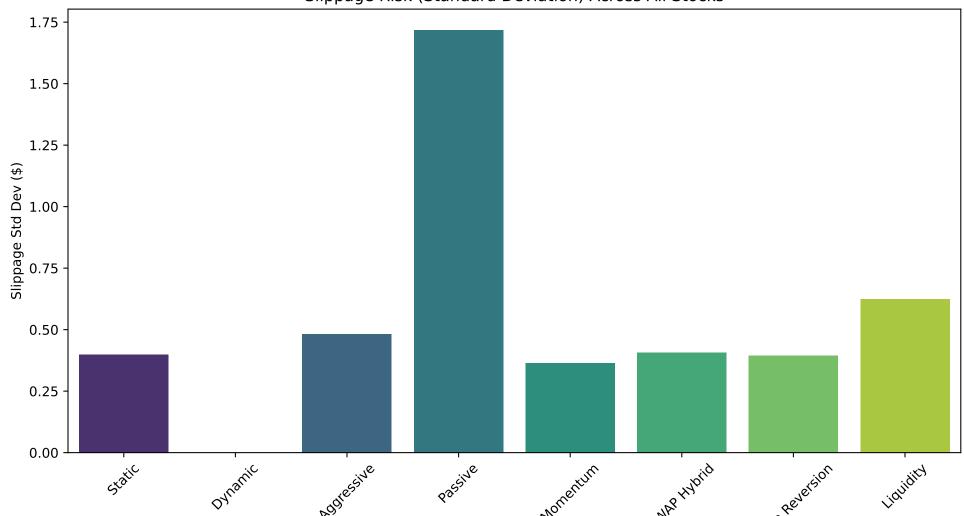
Strategy	Avg Price	Slippage
Static	167.06388292607573	0.018141115866228574
Dynamic	167.04574181020948	-2.842170943040401e-14
Aggressive	166.99889039686968	-0.04685141333982301
Passive	168.11522199358265	1.0694801833731447
Momentum	167.17911248273015	0.13337067252064116
TWAP Hybrid	167.05918824322586	0.013446433016355286
Mean Reversion	167.02781090323458	-0.017930906974925165
Liquidity	167.05644480387372	0.01070299366421068



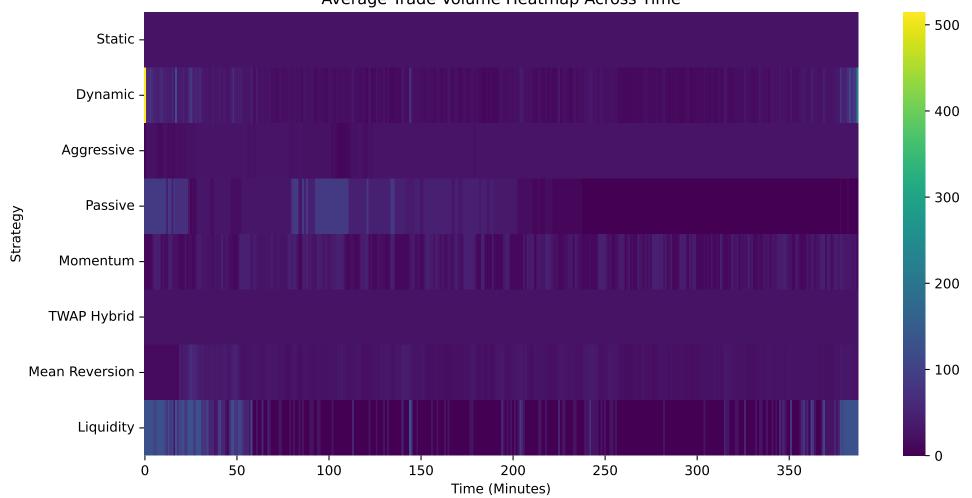
Average Price Deviation from VWAP Across All Stocks



Slippage Risk (Standard Deviation) Across All Stocks



Average Trade Volume Heatmap Across Time



Strategy Tradeoffs Across All Stocks

Strategy	Avg Slippage	Std Slippage	Avg Price Dev	Tradeoffs
Aggressive	-0.5186030793633222	0.4811099166083869	-0.5186030793633222	Exploits dips, high reward, higher risk.
TWAP Hybrid	-0.3667343449456723	0.4067060662232288	-0.3667343449456723	Balanced, adaptive, moderate risk/reward.
Static	-0.3576806130775253	0.39779819383685067	-0.3576806130775253	Stable, low risk, but no price advantage.
Mean Reversion	-0.34523965022307834	0.39384127416754466	-0.34523965022307834	Reversion-focused, high activity, sensitive to VWAP20.
Momentum	-0.252945945338314	0.36381227756798346	-0.252945945338314	Chases trends, good in momentum, risky in choppy markets.
Dynamic	-1.1368683772161604e-14	3.855308240830066e-14	-1.1368683772161604e-14	Volume-driven, good in stable markets, risks missing dips.
Liquidity	0.40806566888435897	0.6240219031184482	0.40806566888435897	Liquidity-focused, low impact, misses low-volume opps.
Passive	1.7688402988118355	1.717127494247481	1.7688402988118355	Low impact, waits for stability, may miss volume.