

Big Tech Giants Stock Price Data analysis

Seasonality by Day of Week: Analysis of stock price fluctuations based on the day of the week, aiming to identify whether significant patterns exist.

Monthly Analysis: Examination of stock price changes throughout the year, identifying months when prices are highest or lowest.

Comparison of Apple and Microsoft: Comparison of the stock performance of these two tech giants, evaluating the similarities and differences in their price fluctuations. The goal of this analysis is to identify significant patterns that could help investors make informed decisions.



Intro

Home

AAPL vs MSFT

Seasonality by day of week

Monthly return

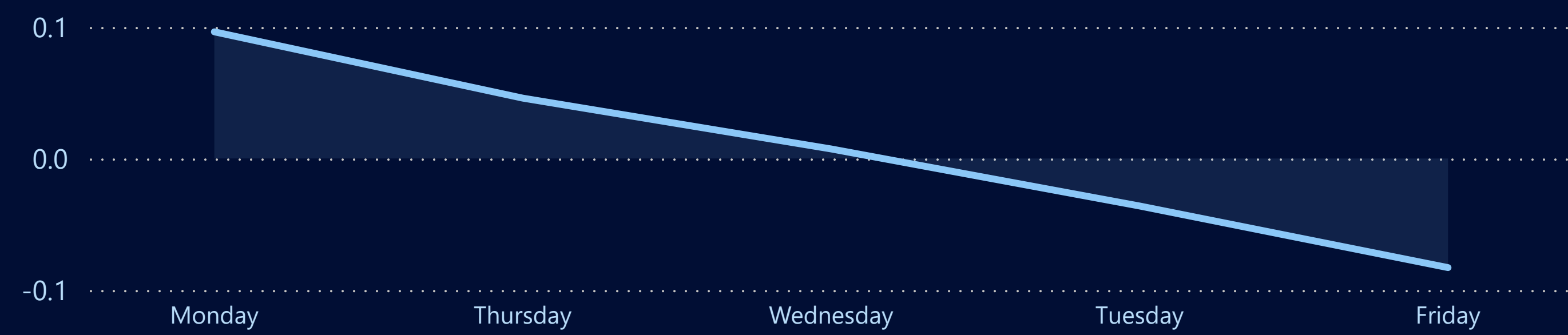
Stock Price Data Analysis

1/4/2010

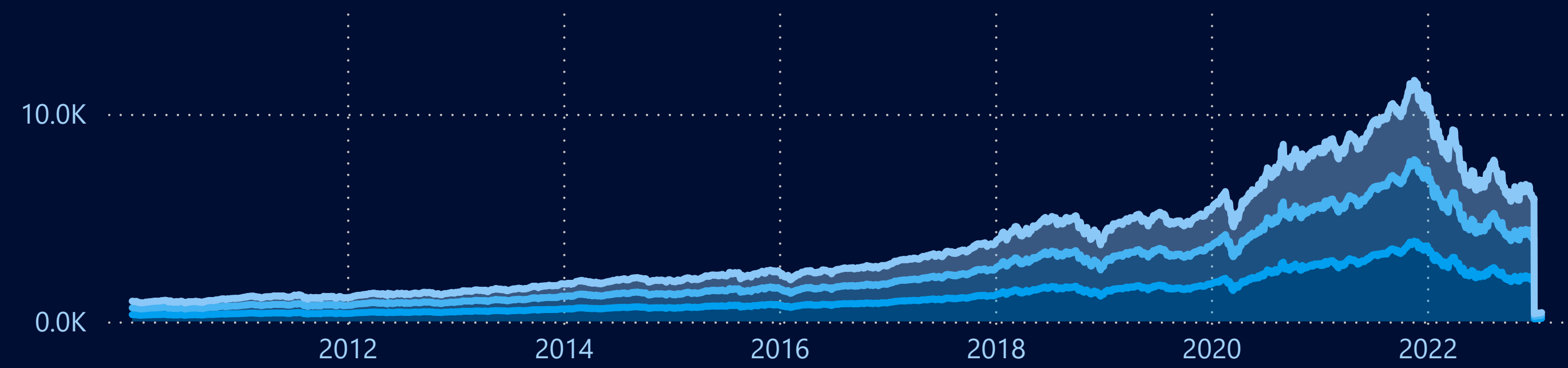
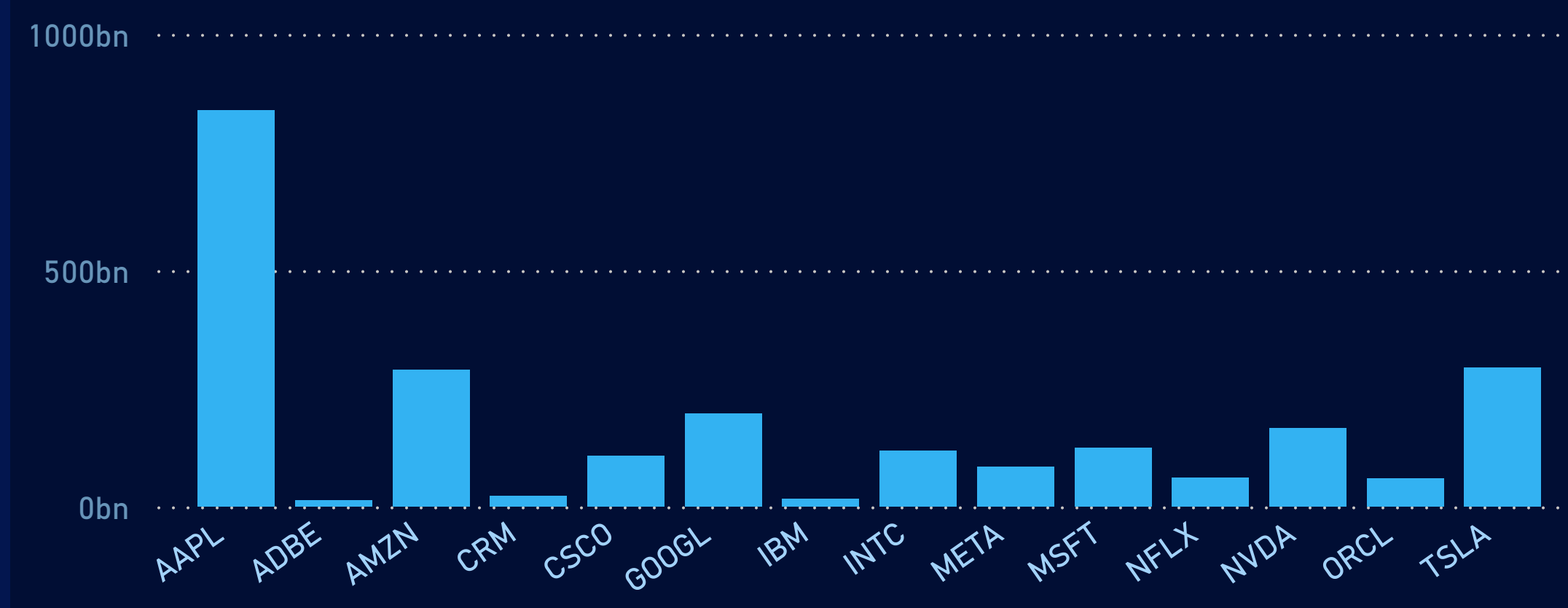
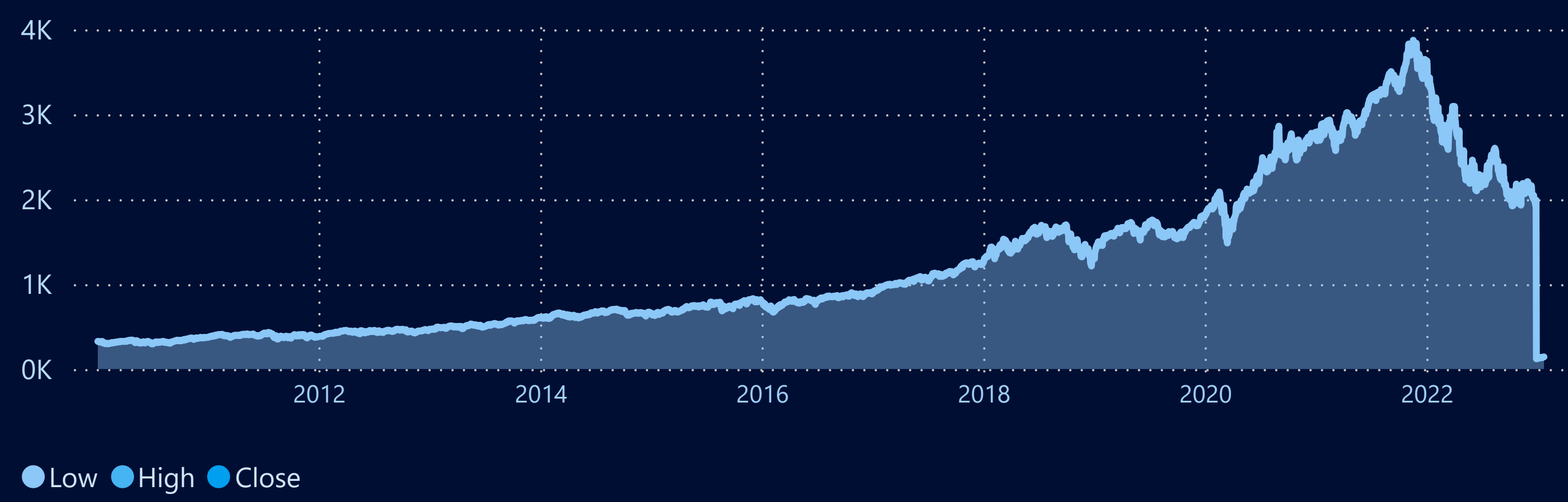
12/31/2023



Seasonality by day of the week



Close by Date





APPLE AND MICROSOFT ANALYSIS

Microsoft's stock volatility is higher than Apple's, indicating stronger price fluctuations, possibly due to greater market sensitivity to economic factors or differences in business structure.

Apple's average stock price is higher than Microsoft's, suggesting that investors may perceive Apple as a more valuable or stable investment compared to Microsoft.

6.79

Min Price

51.30

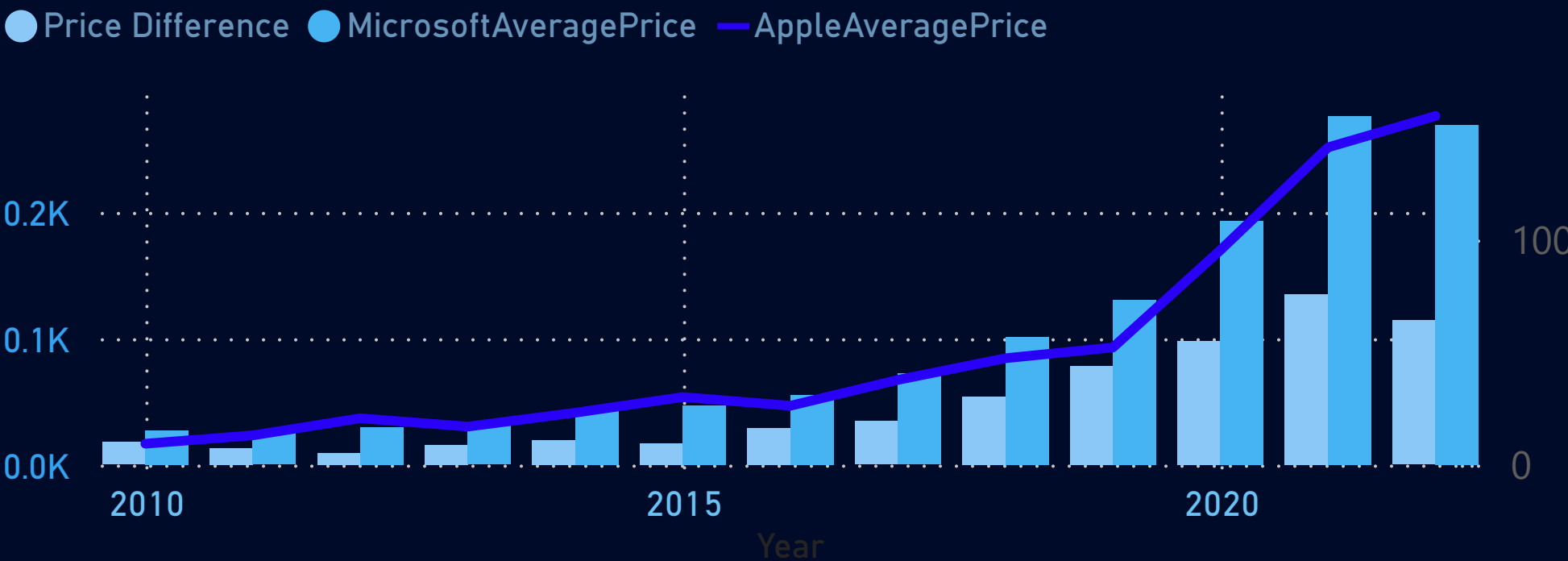
Average Volality

182.94

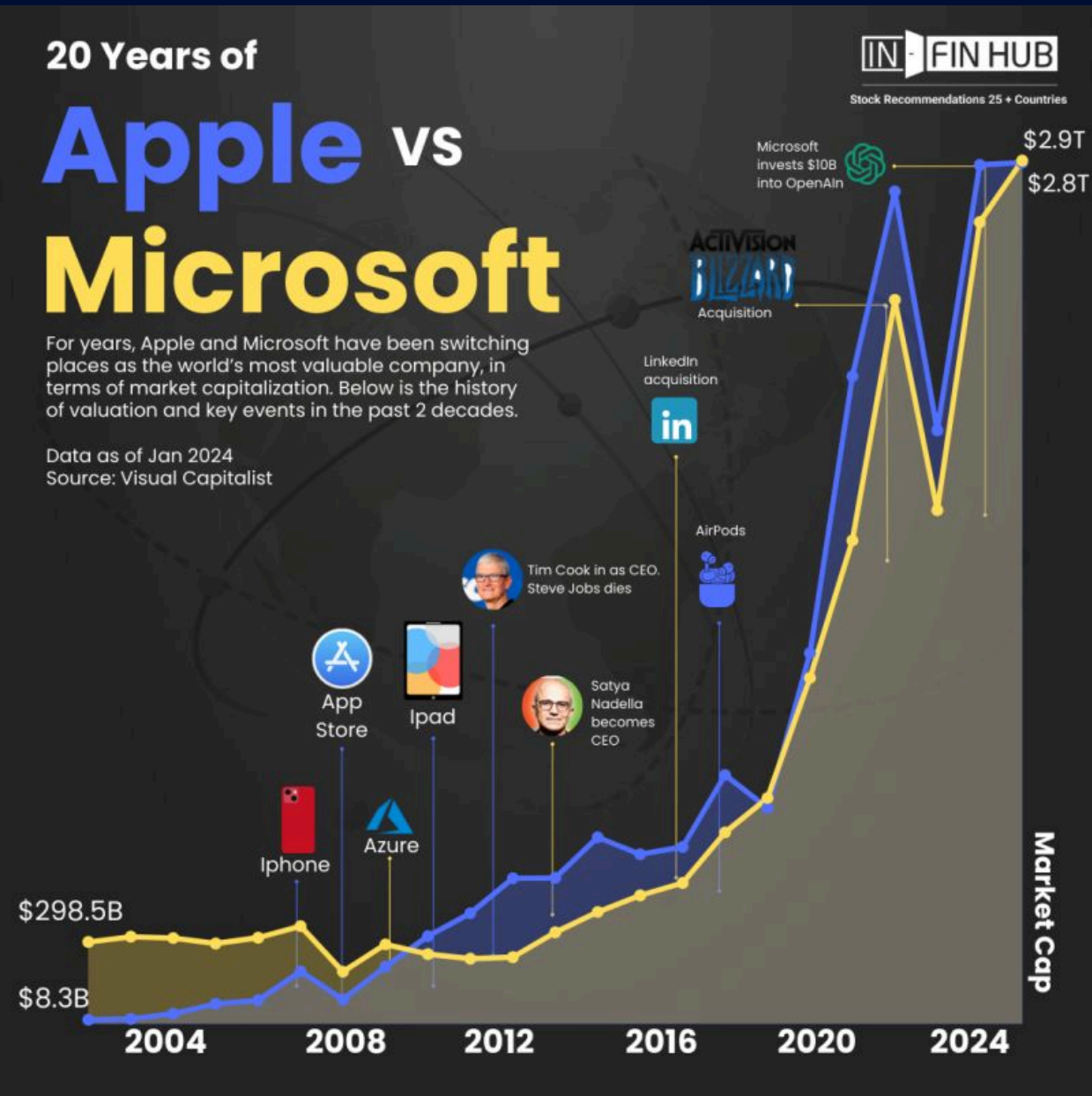
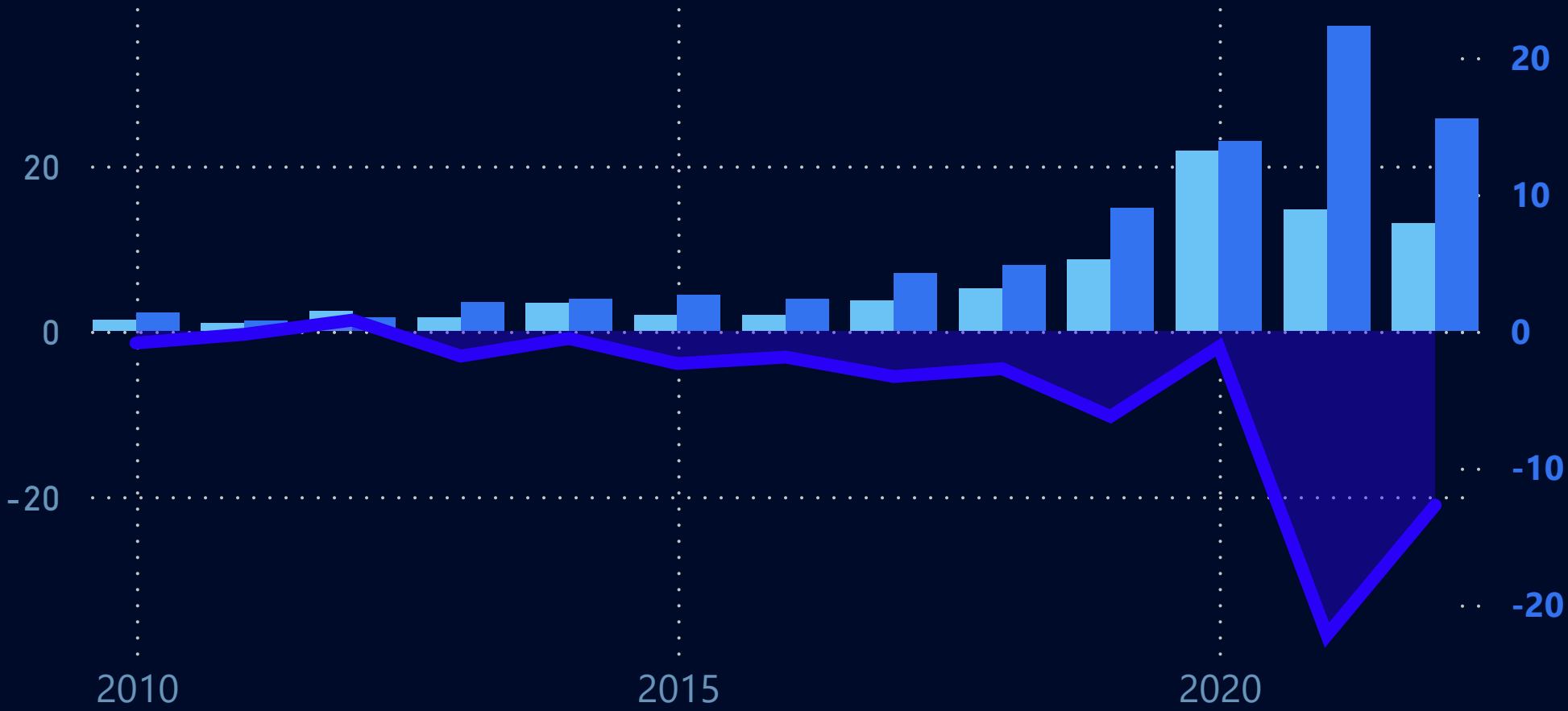
Max Price

Stock	Year	Apple Price	Microsoft Price	Price Difference
AAPL	2010	9.28	27.06	17.78
AAPL	2011	13.00	26.05	13.05
AAPL	2012	20.57	29.82	9.25
AAPL	2013	16.88	32.49	15.61
AAPL	2014	23.07	42.45	19.39
AAPL	2015	30.01	46.71	16.70
AAPL	2016	26.15	55.26	29.11
AAPL	2017	37.64	71.98	34.35
AAPL	2018	47.26	101.03	53.77
AAPL	2019	52.06	130.38	78.32
AAPL	2020	95.35	193.03	97.68
AAPL	2021	140.99	275.94	134.95
AAPL	2022	154.93	269.03	114.10

Price Difference



Apple Microsoft Volatility Difference



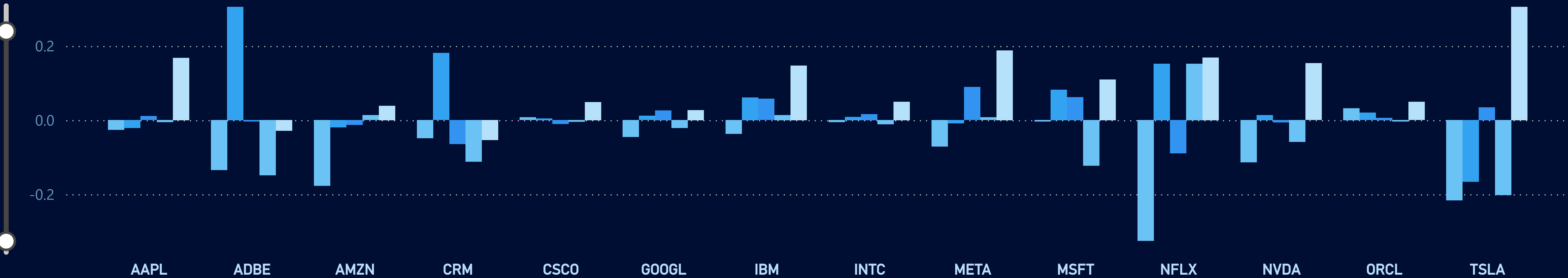


Stock Price Seasonality by Day of the Week



2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
1	2	3	4	5	6	7	8	9	10	11	12		

● Friday ● Thursday ● Wednesday ● Tuesday ● Monday



Stock prices vary by day of the week – some days lead to higher gains, while others see more frequent declines.

Day Of Week	AAPL	ADBE	AMZN	CRM	CSCO	GOOGL	IBM	INTC	META	MSFT	NFLX	NVDA	ORCL	TSLA	Total
Total	0.02	0.00	-0.03	-0.02	0.01	0.00	0.05	0.01	0.04	0.02	0.01	0.00	0.02	-0.05	0.00
Monday	0.17	-0.03	0.04	-0.05	0.05	0.03	0.15	0.05	0.19	0.11	0.17	0.15	0.05	0.31	0.10
Tuesday	-0.01	-0.15	0.01	-0.11	0.00	-0.02	0.01	-0.01	0.01	-0.12	0.15	-0.06	0.00	-0.20	-0.04
Wednesday	0.01	0.00	-0.01	-0.06	-0.01	0.03	0.06	0.02	0.09	0.06	-0.09	-0.01	0.01	0.03	0.01
Thursday	-0.02	0.31	-0.02	0.18	0.00	0.01	0.06	0.01	-0.01	0.08	0.15	0.01	0.02	-0.17	0.05
Friday	-0.03	-0.13	-0.18	-0.05	0.01	-0.05	-0.04	-0.01	-0.07	0.00	-0.33	-0.11	0.03	-0.22	-0.08

Monthly Return Analysis



Year, Month

All

AAPL	AMZN	CSCO	IBM	META	NFLX	ORCL
ADBE	CRM	GOOGL	INTC	MSFT	NVDA	TSLA

Invest

5,000

15,489

Year	Month	stock_symbol	Sum of open	Sum of close	Value	Investment_Return
2010	January	AAPL	142.10	140.95	5,000	4,487.19
2010	January	AAPL	142.10	140.95	10,000	8,974.38
2010	January	AAPL	142.10	140.95	15,000	13,461.57
2010	February	AAPL	134.42	134.90	5,000	5,254.00
2010	February	AAPL	134.42	134.90	10,000	10,508.01
2010	February	AAPL	134.42	134.90	15,000	15,762.01
2010	March	AAPL	183.01	183.52	5,000	5,622.33
2010	March	AAPL	183.01	183.52	10,000	11,244.66
2010	March	AAPL	183.01	183.52	15,000	16,866.99
2010	April	AAPL	188.25	188.36	5,000	5,532.25
2010	April	AAPL	188.25	188.36	10,000	11,064.49
2010	April	AAPL	188.25	188.36	15,000	16,596.74
2010	May	AAPL	179.99	179.62	5,000	4,822.23
2010	May	AAPL	179.99	179.62	10,000	9,644.47
2010	May	AAPL	179.99	179.62	15,000	14,466.70
2010	June	AAPL	206.16	205.19	5,000	4,821.69
2010	June	AAPL	206.16	205.19	10,000	9,643.39
2010	June	AAPL	206.16	205.19	15,000	14,465.08
2010	July	AAPL	191.61	191.21	5,000	5,176.46
Total			167,717.81	167,792.99		254,363.36

