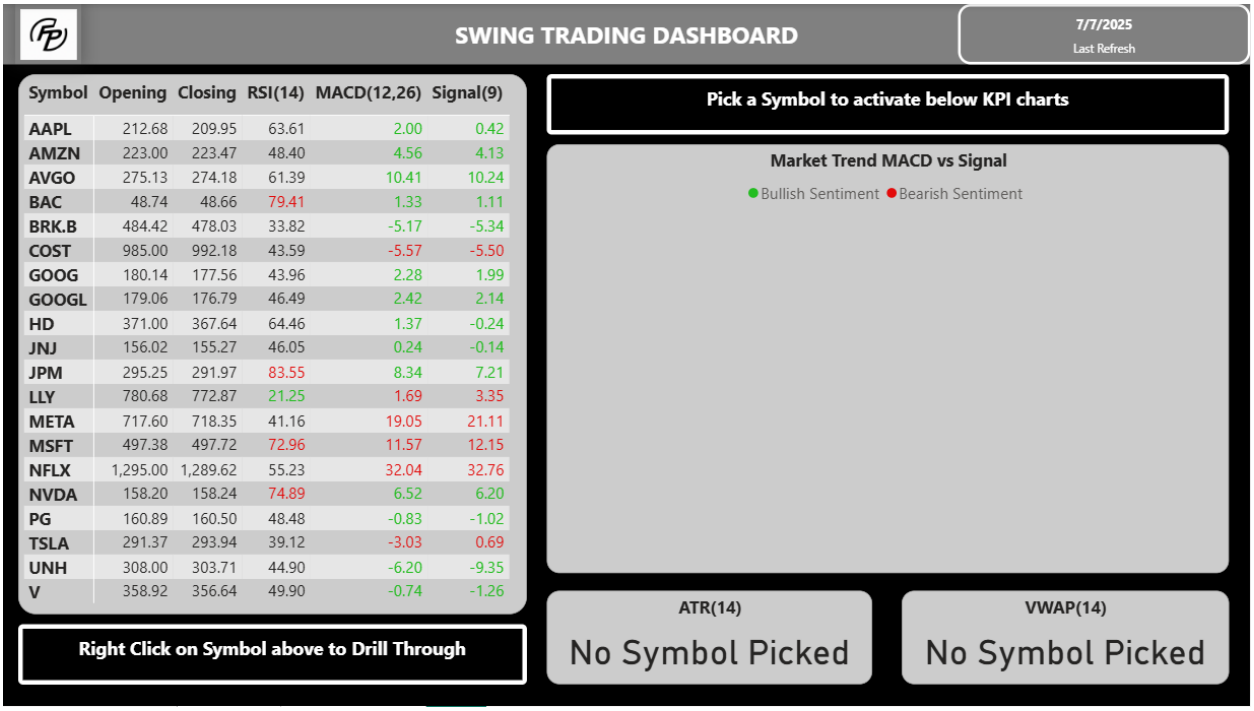
Dashboard Documentation

Disclaimer

Once again, this dashboard should not be used as a tool for decision making on the stock market. Its purpose is to display skills in a portfolio project.

Main Page

When opening the dashboard, you land on the following main page:



Symbol	Opening	Closing	RSI(14)	MACD(12,26)	Signal(9)
AAPL	212.68	209.95	63.61	2.00	0.42
AMZN	223.00	223.47	48.40	4.56	4.13
AVGO	275.13	274.18	61.39	10.41	10.24
BAC	48.74	48.66	79.41	1.33	1.11
BRK.B	484.42	478.03	33.82	-5.17	-5.34
COST	985.00	992.18	43.59	-5.57	-5.50
GOOG	180.14	177.56	43.96	2.28	1.99
GOOGL	179.06	176.79	46.49	2.42	2.14
HD	371.00	367.64	64.46	1.37	-0.24
JNJ	156.02	155.27	46.05	0.24	-0.14
JPM	295.25	291.97	83.55	8.34	7.21
LLY	780.68	772.87	21.25	1.69	3.35
META	717.60	718.35	41.16	19.05	21.11
MSFT	497.38	497.72	72.96	11.57	12.15
NFLX	1,295.00	1,289.62	55.23	32.04	32.76
NVDA	158.20	158.24	74.89	6.52	6.20
PG	160.89	160.50	48.48	-0.83	-1.02
TSLA	291.37	293.94	39.12	-3.03	0.69
UNH	308.00	303.71	44.90	-6.20	-9.35
V	358.92	356.64	49.90	-0.74	-1.26

You can find our three first indicators in the matrix.

- ***RSI(14):***

  The RSI (Relative Strength Index) is a momentum oscillator that measures the speed and magnitude of recent price changes over the last 14 days.

  Above 70 could be the result of an overbought asset while below 30 can be the result of an oversold asset.

- ***MACD(12, 26):***

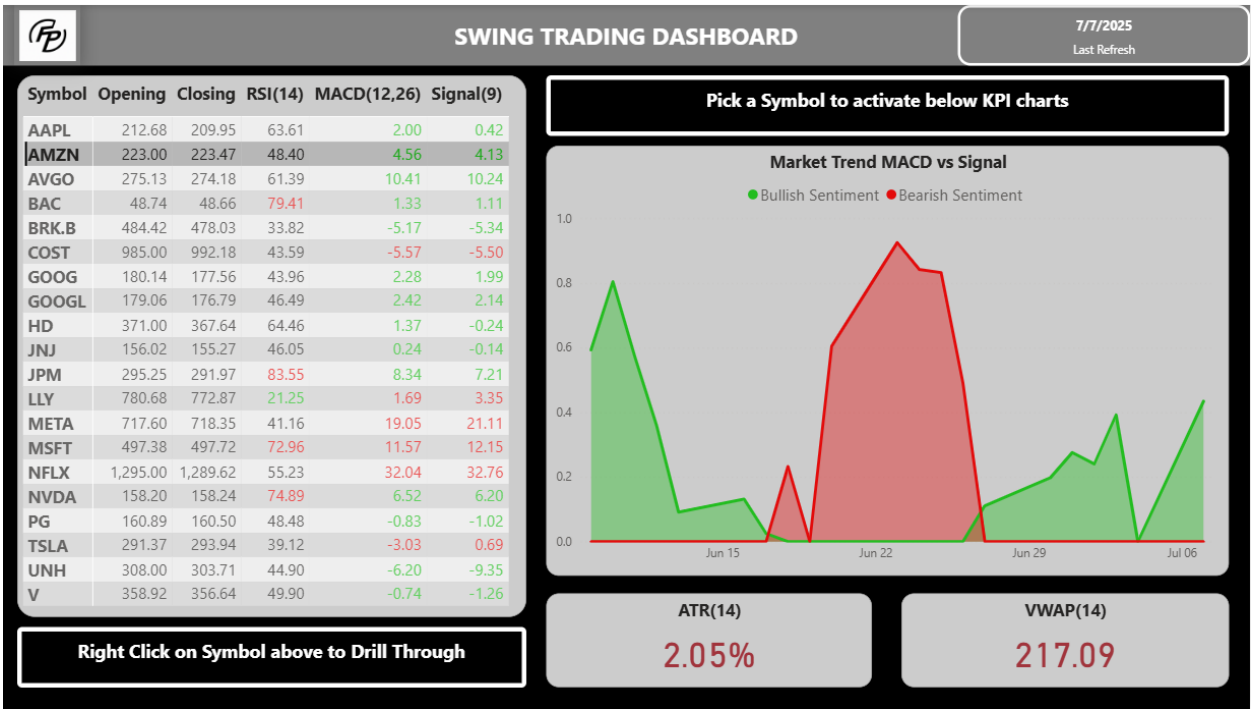
  The MACD (Moving Average Convergence Divergence) is the difference between the Exponential Moving Average on 12 and 26 days

- ***Signal(9):***

Reminder: days are counted in market business days

The Signal line is a 9-day Exponential Moving Average of the MACD.

After clicking on symbol three overview indicators will appear:



- Market Sentiment Indicator (line graph):

  Difference between the MACD(12, 26) and Signal(9). A MACD line above the Signal line could show a bullish sentiment. The other way around could show a bearish sentiment. The value returned is the difference between those signals on a T moment.

- ATR(14):

  Average True Range gives indication on the volatility of the asset based on the last 14 days. Below 1% can result from a low volatility while above 2% can result from a high volatility.

- VWAP(14):

  The Volume Weighted Average Price gives indication about the momentum. A Price above VWAP(14) can be a bullish signal and vice-versa.

To explore more in-depth indicators, right click on a symbol then click “Drill Through” > “Deep Dive”.

Deep Dive Page

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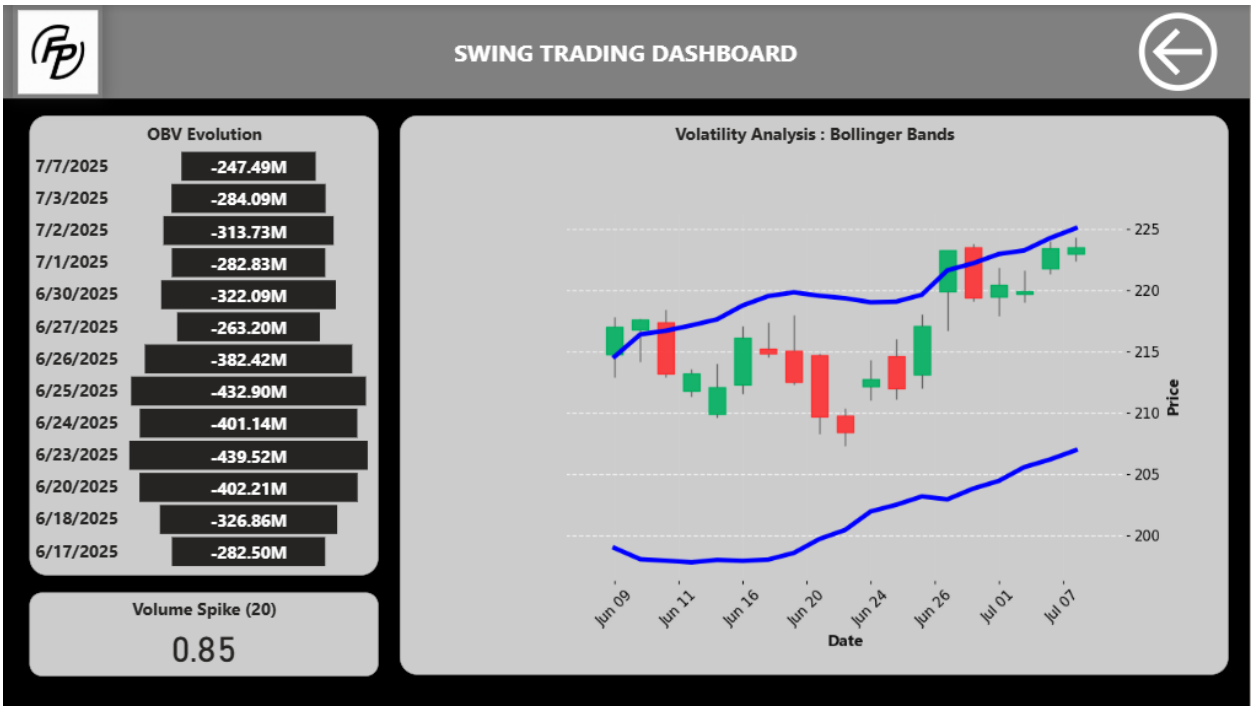
You arrive now on the following page:



You can now visualize three other indicators which could confirm, or not, what you analyzed from the main page:

- ***OBV Evolution***

  The On-Balance Volume is an indicator to assess the evolution of the market in volume. Each time the price goes up, the OBV(d) = OBV(d-1) + Volume and OBV(d) = OBV(d-1) - Volume wen price goes down.

- ***Volume Spike(20)***

  Volume Spike = Current Volume / AVG(Volume last 20 days)

- ***Volatility Analysis: Bollinger Bands***

  Python Visual created with Matplotlib Finance. The blue lines are the Bollinger Bands.

  Lower Band = Simple Moving Average on the last 20 days - 2 * Standard Deviation

  Upper Band = Simple Moving Average on the last 20 days + 2 * Standard Deviation

  The core of the candles represents the open and close price with a candle per day while their shadow represents their low and high price. The green result of an overall bullish sentiment while the red result of an overall bearish sentiment.

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