

DSAA3073

Market Lab

An open project in simulated trading

lixin2002cn.github.io/3073-Project/

The trading task

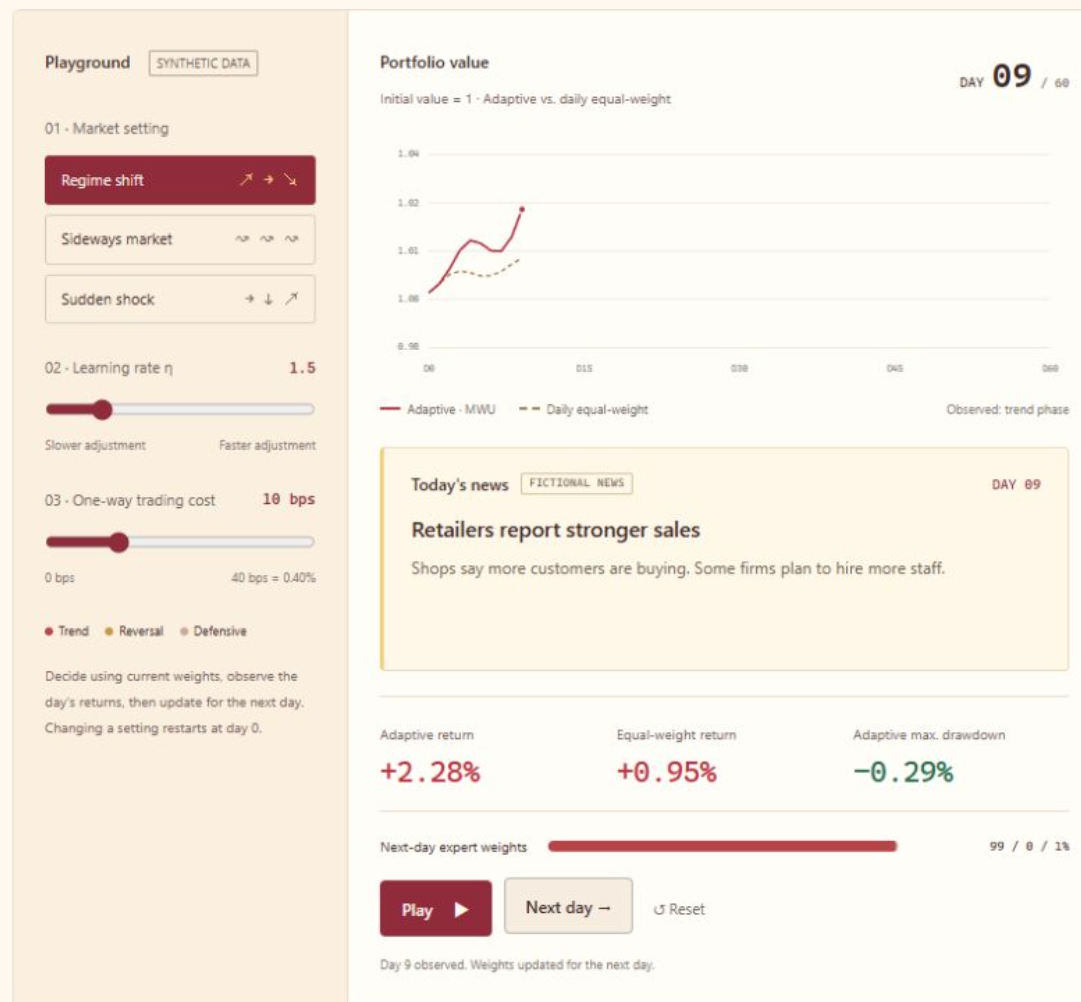
Daily information

Prices and news available at that moment

Portfolio decisions

Choose holdings.
Observe the next result.

StockBench is our shared environment



Website playground uses synthetic data

StockBench: data for daily decisions

20

large US stocks

Mar–Jun 2025

Default backtest period

\$100,000

Starting cash

Prices	Daily open, high, low, close, volume and VWAP
Company data	Financial statements, valuation and dividends
News	Headlines, short summaries, times and sources

Cached JSON and Parquet files can be read locally.

Your approach

Ensembles

Combine different market views

LLMs and agents

Read text and organize decisions

Any model is welcome. Vibe coding is allowed.

Online learning

Adapt as feedback arrives

Other ideas

Choose a method that fits
your question

StockBench comes with code

Data tools

Load cached prices, company data and news.

LLM and agent example

An existing strategy turns LLM decisions into trading orders.

Trading simulator

Track cash, holdings and trades through time.

Evaluation and reports

Returns, drawdown and Sortino, with trade logs and charts.

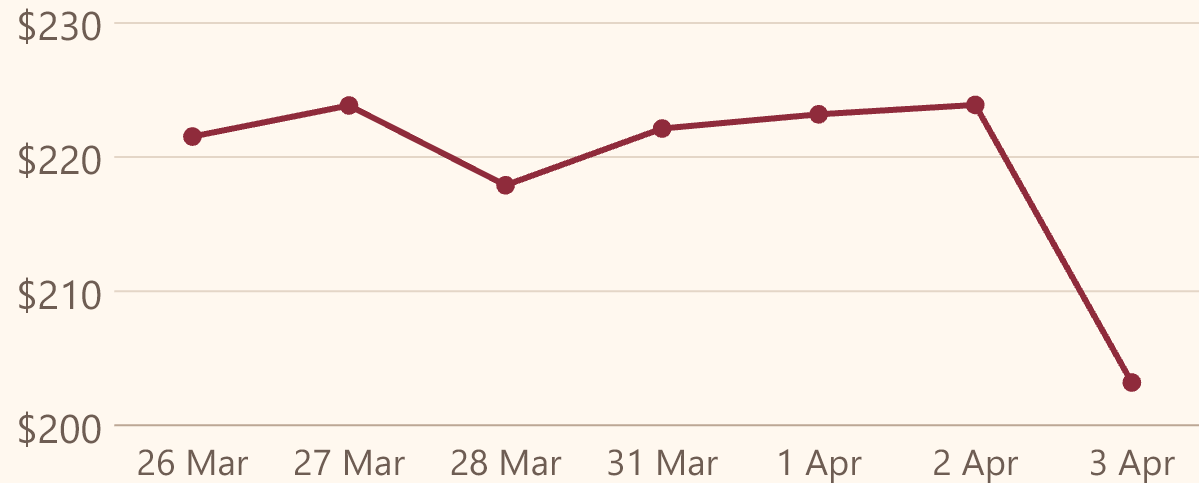
Reuse these tools and connect your own decision method.

Official code: github.com/ChenYXxxx/stockbench

Apple: a real decision day

4 April 2025 | AAPL

Past closing prices (USD)



4 Apr open: \$193.89

Later: \$177.20 at the next open, 7 April

Open-to-open change: -8.61%. This outcome was unknown on 4 April.

News in the cache, 3 April

“Apple Production Hubs Hit by Tariffs, Sending Shares Plummeting”

Bloomberg via Yahoo / Finnhub

Results and discoveries

Returns

How much did you make?

Final portfolio value
Profit or loss

Interesting ideas

What did you find?

An insight, a surprise,
or an unexpected failure

Profit and loss amounts do not affect your grade

A method that keeps losing can still lead to a useful discovery

Finance guide on the website

PART 01	Finance basics Shares, returns, portfolios, and trading costs.	↗
PART 02	Finance in this project Daily information, holdings, and performance measures.	↗
PART 03	Further learning Portfolio risk, market returns, and the role of information.	↗

Finance basics

Shares, returns and costs

Finance in this project

Daily data, holdings and risk

Further learning

Portfolio risk and
market information

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Project requirements

8

pages of main text, at most

English report in LaTeX

Submit a PDF

ACL template available

Canvas submission

27 Nov 2026, 23:59 (UTC+8)

[Full requirements and rubric on the website](#)

20 + 5

minutes per student

Presentation and discussion

Individual work in English

NAME-STUDENTID

Presentation order on Canvas

最后，还是要有个好心境、好家庭、好身体。

投资到最后，反映的是你个人的真实性情和价值观。
健康的环境和心情是长期修行的结果。

成功诚然需要运气和际遇的配合，
但能否幸福地去做投资则掌握在你自己手里。

张磊
《投资中最简单的事》推荐序