

The yfinance Python library

The yfinance is a Python library with a user-friendly interface for downloading historical market data from Yahoo Finance. It lets you get historical stock prices, dividends, and other financial data for stocks, exchange-traded funds (ETFs), and other securities.

This example shows code for using yfinance to download historical stock prices.

```
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1. import yfinance as yf
2.
3. # Download historical data for a stock
4. msft = yf.Ticker("MSFT")
5. msft_data = msft.history(period="max")
6.
7. # Display the downloaded data
8. msft_data.head()
```

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Explanation for the above code:

- First, import the yfinance library using the alias yf.
- Then, create a Ticker object for the Microsoft stock ("MSFT").
- Use the history method of the Ticker object to download the historical data for the stock. The period parameter of the history method specifies when you want to download the data. In this example, it is set to max to download the maximum available historical data.

Here are some of the possible values for the period parameter and what they represent:

- period="1d": Download 1 day of historical data.
- period="5d": Download 5 days of historical data.
- period="1mo": Download 1 month of historical data.
- period="3mo": Download 3 months of historical data.
- period="6mo": Download 6 months of historical data.
- period="1y": Download 1 year of historical data.
- period="2y": Download 2 years of historical data.
- period="5y": Download 5 years of historical data.
- period="10y": Download 10 years of historical data.
- period="ytd": Download historical data since the beginning of the current year.
- period="max": Download all available historical data.

Finally, you print the downloaded data using the head function. This downloaded data will display a Pandas data frame containing Microsoft's historical stock prices and other financial data.

	Open	High	Low	Close	Volume	Dividends	Stock Splits
Date							
1986-03-13	0.055241	0.063365	0.055241	0.060657	1031788800	0.0	0.0
1986-03-14	0.060657	0.063907	0.060657	0.062823	308160000	0.0	0.0
1986-03-17	0.062823	0.064448	0.062823	0.063907	133171200	0.0	0.0
1986-03-18	0.063907	0.064448	0.061740	0.062281	67766400	0.0	0.0
1986-03-19	0.062281	0.062823	0.060657	0.061198	47894400	0.0	0.0

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