# Share pred. via Twitter

This program researches the historical twitter mentions of a specific S&P 500 company and attempts to predict the future share price based on a liner Regression model.

## The logic

The program researches to historical twitter mentions of the ticker (example: MSFT) and the company name (example: Microsoft). It then uses a liner regression model to predict the development of the share prices in the foreseeable future.

## Shortcomings of the program

It takes around 3-10sec per historical date, which is too long. This is mainly because I am not able to use twitters enterprise API.

## Installation

In order to be able to meaningfully execute the code, various libraries are required.

* got3 (<https://github.com/Jefferson-Henrique/GetOldTweets-python>)
* Numpy
* pandas
* pandas\_datareader
* sklearn
* matplotlib
* scipy

The easiest way to install those libraries is with pip:

1. *pip install quandl*
2. *pip install numpy*
3. *pip install pandas*
4. *pip install pandas\_datareader*
5. *pip install matplotlib*
6. *pip install scipy*