

# US Stock Market Analysis Tool

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[Github](#) - [Website](#)

# Topic and point of view

- Different topics considered
- Why did we choose the analysis of the U.S Stock Market?
- Big Data is essential to this analysis
- The goal was to provide an educational tool for a wide range of users
- Other tools are focused on predictions rather than education

# Workload sharing and internal organisation



- Looking for information about the mechanics of the stock market
- Extreme programming group method
- Each one developing a different feature of the software
- How did we split the tasks

# Main contributions

```
Welcome to the US Stock Market Analysis
Press enter to continue
```

```
Please choose a field of study:
[1] Information about a specific stock | [2] General market
analytics | [3] Historical events | [quit] Quit
Enter your choice: █
```

```
Please choose which historical period you want to study:
[1] 9/11 Attacks | [2] 2008 Financial Crisis | [3] Covid |
[b] Back | [quit] Quit
Enter your choice: █
```

- Interactive program leads to a user-friendly interface and nice user-experience
- Linked stock market data to historical events
- Make complex data accessible to a wider audience

# Personal experience

## Gabriel

- learn about the stock market
- code issues
- deepening of pyspark tools
- Future in big data

## Alain

- What was the most interesting part for me
- The problem I had the most trouble with
- What are the new things that I learned

# Final thoughts

- Achieved goals
- Limits and areas to improve in the software

```
***** $AAPL - Nasdaq *****  
*****
```

```
All Time Low: 0.0491 on 08-07-1982  
All Time High: 182.94 on 04-01-2022
```

```
* Last recorded stock value: 142.32 on 12-12-2022
```

```
* Best performance in a day: +9.4271 (6.1785%) on 24-02-2022
```

```
* Best performance in a month: +0.0635 (23.923%) on 01-2001
```

```
* Best performance in a year: +0.1899 (156.1157%) in 1998
```

```
Press enter to continue █
```