

## Blue Blazer Research : Calculating Target Prices using Real-time Data in Python

### Goal:

- To compute the target prices using market fundamentals (Price/Earnings, Books/share, Cash/share, Dividend Ratio) and compare with the current price

### Description:

#### Approach

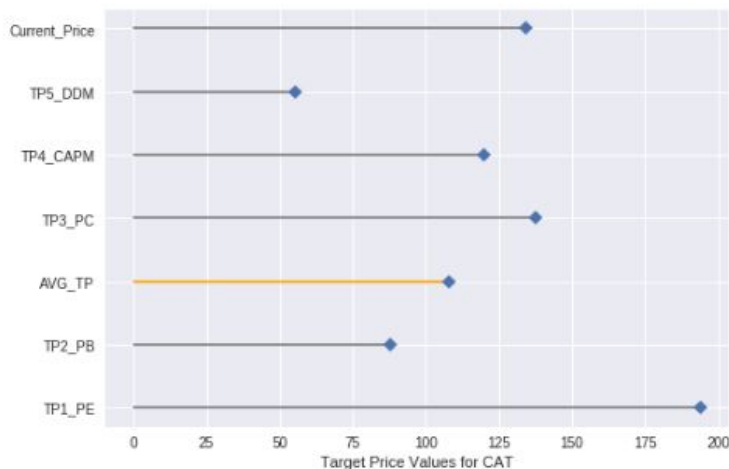
- For each stock symbols, we extract price and fundamentals data from [finviz.com](https://finviz.com) and [yahoo-finance](https://finance.yahoo.com)
- In our program, we write function definitions for different valuation methods that will produce the target prices  
(The valuation methods are derived from CAPM model, Gordon Growth or DDM model, Price per Earnings, Price per Books and Price per Cash values)
- The prices are displayed for final recommendations

### Result

*Graph-A* compares the current price with different target prices that are calculated using our program, and *Graph-B* shows the historical trends of stock prices for the ticker against its competitors.

Stocks that are judged *undervalued* (with respect to their theoretical values of target prices) are recommended to buy, while stocks that are judged *overvalued* to sell.

#### Graph A



Ticker: Caterpillar Inc. (3/21/2019)

#### Graph B



### Conclusion:

Since market fundamental indicators are not static and are subject to change, the data used for this program need to be updated in regular basics. Further research on companies management, sales reports, and competitor standings will complement the interpretations of findings from our program.