

Final Project

## FORECASTING STOCK PRICE USING ARIMA MODEL

Please input the ticker of the stock you are interested in, then input the start date and end date (for example: 2010-10-30). The end date can be TODAY since we will import the most updated data from Yahoo Finance API. (Please enter the start date first, then enter the end date)

Ticker Name:	Start Date:	End Date:
<input type="text" value="YHO"/>	<input type="text" value="yyyy-mm-dd"/>	<input type="text" value="2015-12-24"/>

**Invalid End Date**

*Examples when running with 2.7.10:*

Start Date = 2013-11-11

End Date = 2015-12-24

Stock = YHOO

Submit is not available is Ticker Name, Start Date, and End Date are invalid.

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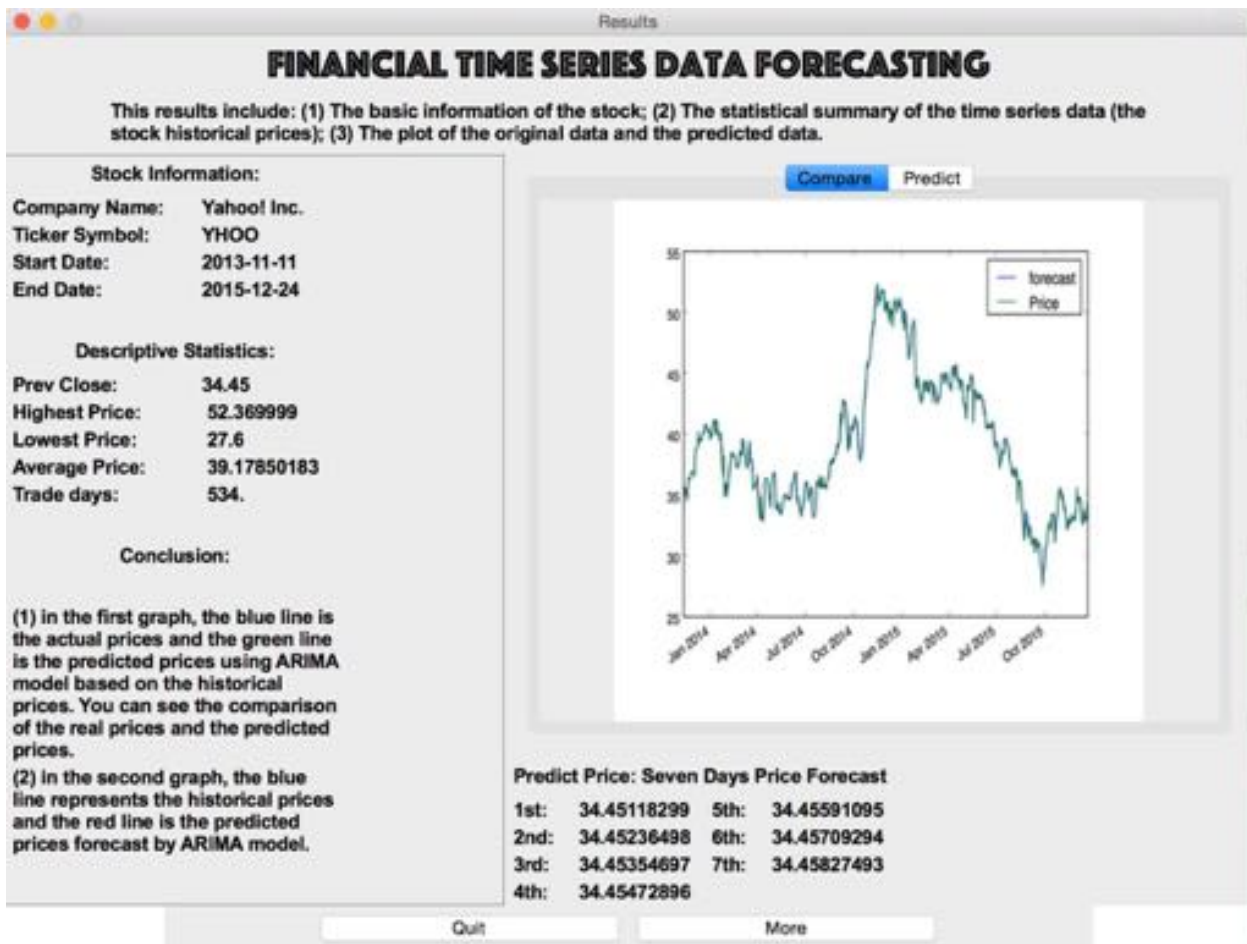
Please input the ticker of the stock you are interested in, then input the start date and end date (for example: 2010-10-30). The end date can be TODAY since we will import the most updated data from Yahoo Finance API. (Please enter the start date first, then enter the end date)

Ticker Name:	Start Date:	End Date:
<input type="text" value="YHOO"/>	<input type="text" value="2013-11-11"/>	<input type="text" value="2015-12-24"/>

**Ready to Submit!**

Once every input is valid, it is ready to submit, and the Submit button now is good to click.

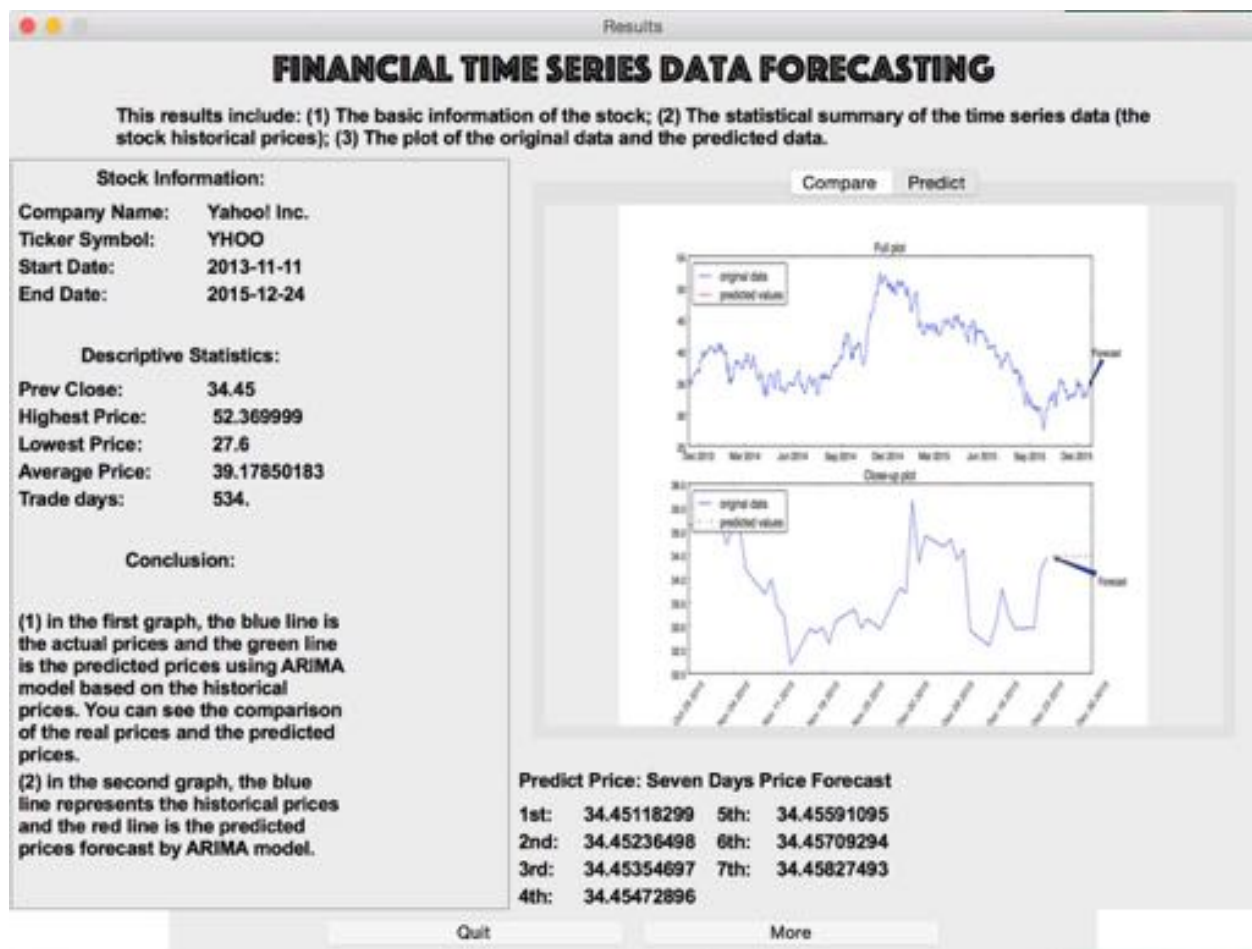
For this example, the outcome is:



from the GUI window, we can also click on **Predict**, **More**, and **Quit**.

### **Predict:**

The first plot shows all the historical data from Start Date to End Date in blue, and the predicted values for the following seven days in red.



The second plot is just a close-up of the first one near the predicted values.

### More:

More is going to display the ACF vs. PACF plot at each difference stage. This shows how we choose an optimal parameter d.

