

VBA Homework - The VBA of Wall Street

Background

You are well on your way to becoming a programmer and Excel master! In this homework assignment you will use VBA scripting to analyze real stock market data. Depending on your comfort level with VBA, you may choose to challenge yourself with a few of the challenge tasks.

Before You Begin

1. Create a new repository for this project called `VBA-challenge`. **Do not add this homework to an existing repository.**
2. Inside the new repository that you just created, add any VBA files you use for this assignment. These will be the main scripts to run for each analysis.

Files

- [Test Data](#) - Use this while developing your scripts.
- [Stock Data](#) - Run your scripts on this data to generate the final homework report.

Stock market analyst



Instructions

- Create a script that will loop through all the stocks for one year and output the following information.
 - The ticker symbol.
 - Yearly change from opening price at the beginning of a given year to the closing price at the end of that year. **Formula**
(New price at end of year - Old price at start of year)

- The percent change from opening price at the beginning of a given year to the closing price at the end of that year. $(\text{Previous value} / \text{Old Price} * 100)$
 - The total stock volume of the stock.
- You should also have conditional formatting that will highlight positive change in green and negative change in red.
- The result should look as follows.

<ticker>	<date>	<open>	<high>	<low>	<close>	<vol>		Ticker	Yearly Chang	Percent Char	Total Stock Volume
A	20140101	57.19	57.19	57.19	57.19	0		A	-16.25	-28.41%	572978100
A	20140102	57.1	57.1	56.15	56.21	1916100		AA	15.48	48.54%	5161412000
A	20140103	56.39	57.35	56.26	56.92	1866600		AA-B	1.34	2.73%	21618200
A	20140106	57.4	57.7	56.56	56.64	1777400		AAC	10.92	54.60%	9789700
A	20140107	56.95	57.63	56.93	57.45	1463200		AAN	1.17	3.98%	237929300
A	20140108	57.33	58.54	57.17	58.39	2659400		AAP	48.6	43.91%	200376400
A	20140109	58.4	58.68	57.87	58.41	1757600		AAT	8.38	26.66%	40207800
A	20140110	58.51	59.01	58.14	58.93	1623300		AAV	0.45	10.37%	86658700
A	20140113	58.77	59.1	58.6	58.93	2946700		AB	4.49	21.04%	83051600
A	20140114	59.16	59.95	59.02	59.88	2562200		ABB	-5.41	-20.37%	466820000
A	20140115	59.82	60.37	59.59	60.34	2335100		ABBV	12.63	23.92%	2303237600

CHALLENGES

1. Your solution will also be able to return the stock with the "Greatest % increase", "Greatest % decrease" and "Greatest total volume". The solution will look as follows:

<ticker>	<date>	<open>	<high>	<low>	<close>	<vol>		Ticker	Yearly Chang	Percent Char	Total Stock Volume				Ticker	Value
A	20140101	57.19	57.19	57.19	57.19	0		A	-16.25	-28.41%	572978100				DM	5581.16%
A	20140102	57.1	57.1	56.15	56.21	1916100		AA	15.48	48.54%	5161412000				CBO	-95.73%
A	20140103	56.39	57.35	56.26	56.92	1866600		AA-B	1.34	2.73%	21618200				BAC	2.1595E+10
A	20140106	57.4	57.7	56.56	56.64	1777400		AAC	10.92	54.60%	9789700					
A	20140107	56.95	57.63	56.93	57.45	1463200		AAN	1.17	3.98%	237929300					
A	20140108	57.33	58.54	57.17	58.39	2659400		AAP	48.6	43.91%	200376400					
A	20140109	58.4	58.68	57.87	58.41	1757600		AAT	8.38	26.66%	40207800					
A	20140110	58.51	59.01	58.14	58.93	1623300		AAV	0.45	10.37%	86658700					

2. Make the appropriate adjustments to your VBA script that will allow it to run on every worksheet, i.e., every year, just by running the VBA script once.

Other Considerations

- Use the sheet `alphabetical_testing.xlsx` while developing your code. This data set is smaller and will allow you to test faster. Your code should run on this file in less than 3-5 minutes.
- Make sure that the script acts the same on each sheet. The joy of VBA is to take the tediousness out of repetitive task and run over and over again with a click of the button.

Submission

- To submit please upload the following to Github:
 - A screen shot for each year of your results on the Multi Year Stock Data.
 - VBA Scripts as separate files.
- After everything has been saved, create a sharable link and submit that to <https://bootcampspot-v2.com/>.

Copyright

Trilogy Education Services © 2019. All Rights Reserved.