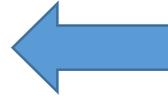


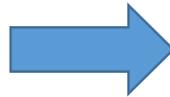
	A	B	C	D	E	F
1			means			
2		systolic	diastolic	heart rate		
3	green-blue	117.26	69.21	67.32		
4	red-black	111.56	67.81	76.63		
5						
6						
7			SEMs			
8		systolic	diastolic	heart rate		
9	green-blue	7.26	9.21	3.2		
10	red-black	1.56	4.81	8		

Step 1: because you completed assignment 1, you should already have an excel file with your data in it. You now need to make up (literally) 6 SEMs (one for each mean). See example to the side.

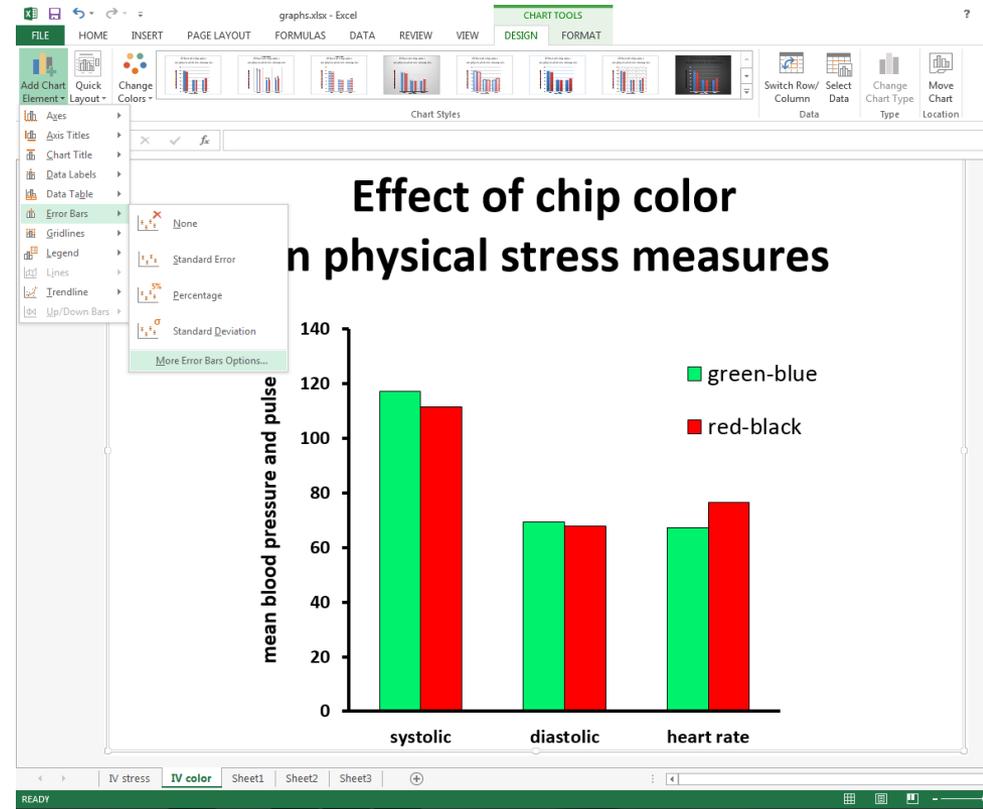
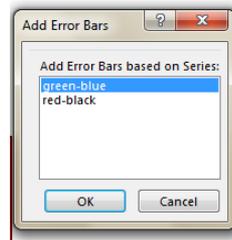
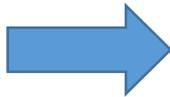


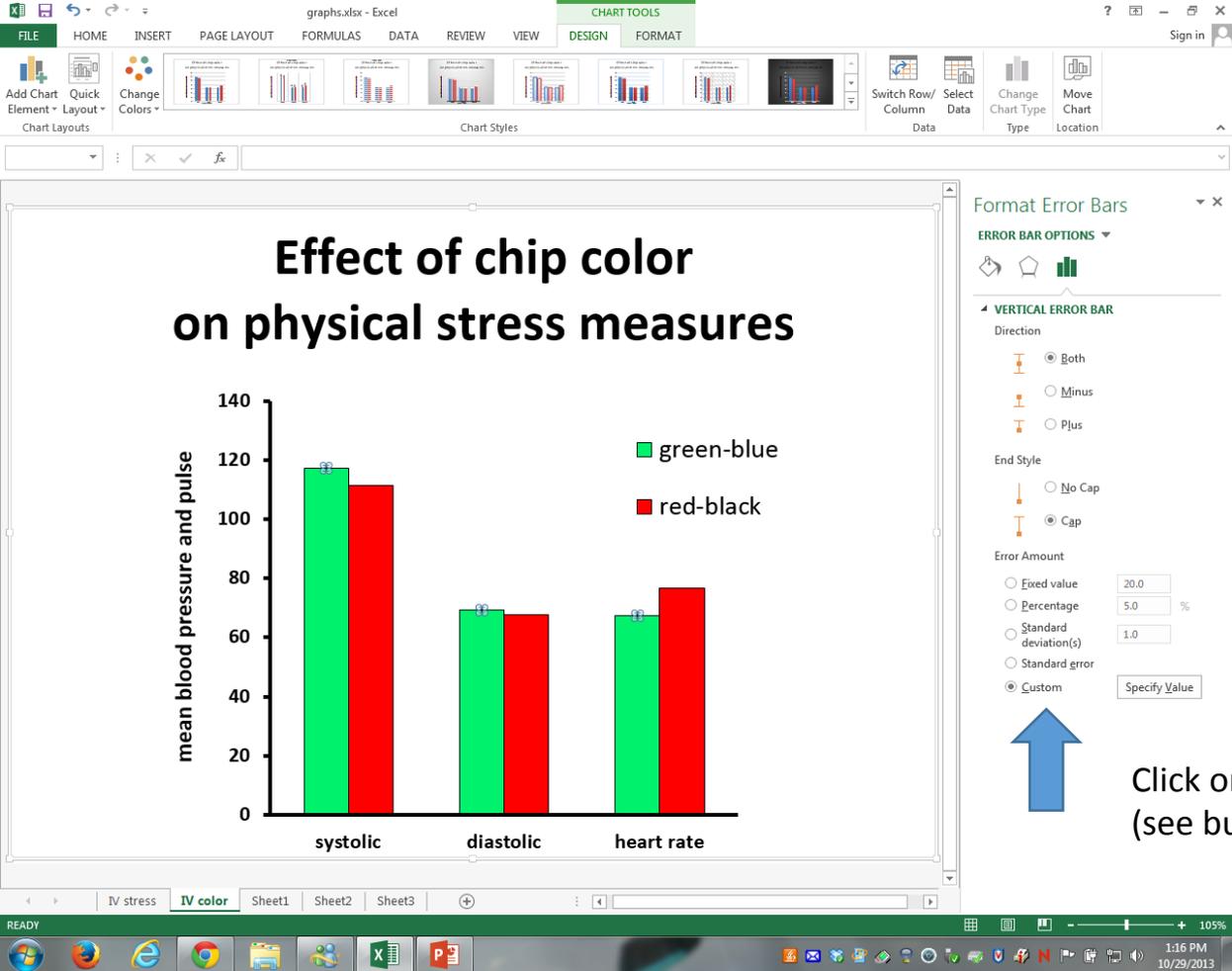
IMPORTANT: this graph is not formatted in APA style but yours should be. See assignment 1.

Step 2: from your chart page, click on “design”, “add chart element”, then “error bars”, followed by “more error bar options”



Step 3: this pop up menu will appear. Simply say “ok”





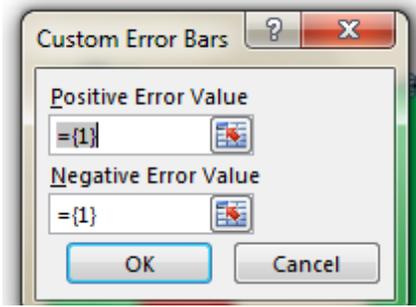
Step 4: a menu list will appear on the right side of the screen.



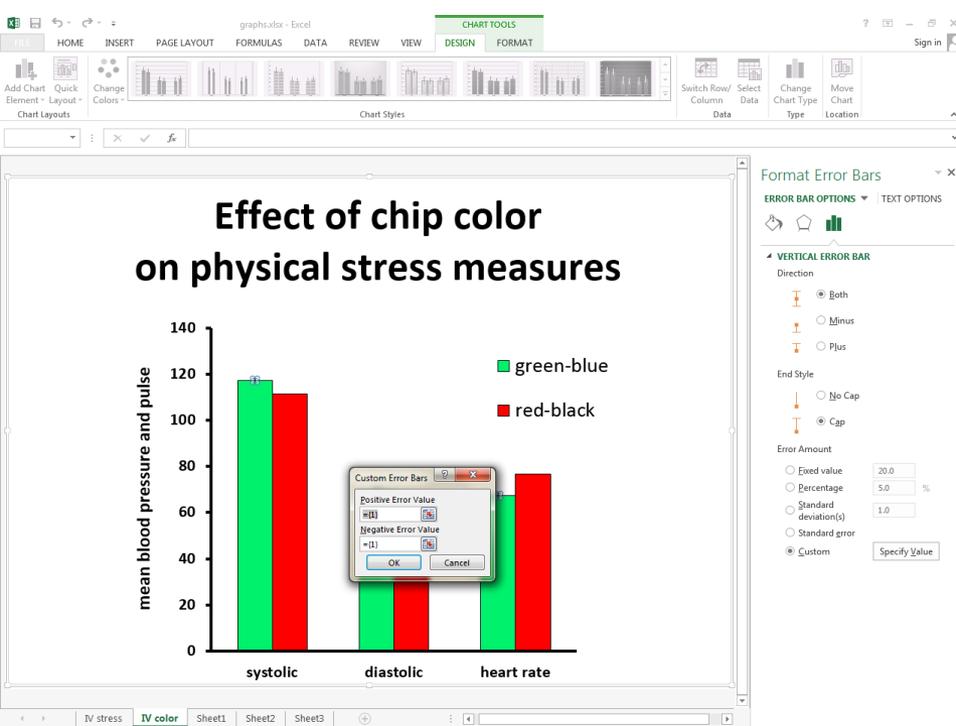
New menu list



Click on custom, followed by "specify value" (see button just to the right of "custom")



This pop up menu will appear



Step 5

You should now see this



Step 5: click on the tab (bottom of the screen) to bring to wherever your SEMs are entered.

In this example they are in “sheet1” – so just click there.

	A	B	C	D	E	F
1			means			
2		systolic	diastolic	heart rate		
3	green-blue	117.26	69.21	67.32		
4	red-black	111.56	67.81	76.63		
5						
6						
7			SEMs			
8		systolic	diastolic	heart rate		
9	green-blue	7.26	9.21	3.2		
10	red-black	1.56	4.81	8		
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

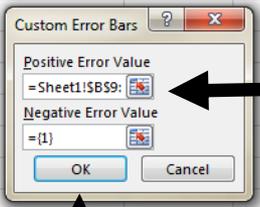
Custom Error Bars dialog box:
Positive Error Value: =1
Negative Error Value: =1



Step 6: clear (erase) what's in the field box directly under "positive error value" and then highlight the SEMs for your first group.

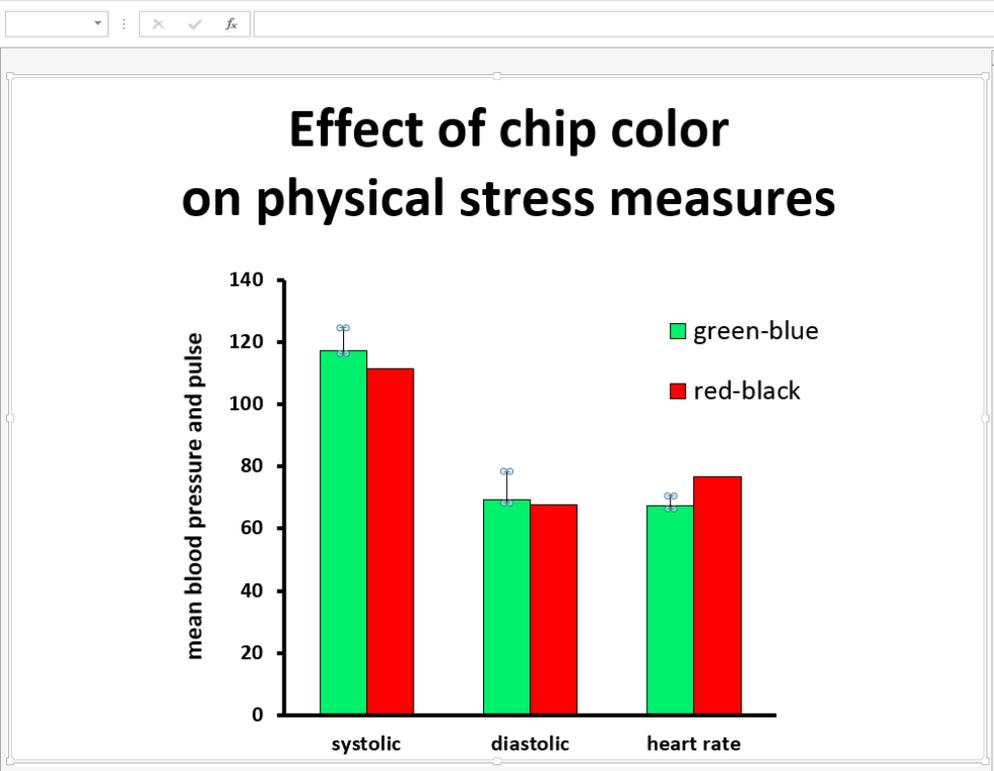
	A	B	C	D	E
1			means		
2		systolic	diastolic	heart rate	
3	green-blue	117.26	69.21	67.32	
4	red-black	111.56	67.81	76.63	
5					
6					
7			SEMs		
8		systolic	diastolic	heart rate	
9	green-blue	7.26	9.21	3.21	
10	red-black	1.56	4.81	8	
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

6b: highlight this row of SEMs



6a: clear this field box

Step 7: hit <OK>



Format Error Bars

ERROR BAR OPTIONS

VERTICAL ERROR BAR

Direction

- Both
- Minus
- Plus

End Style

- No Cap
- Cap

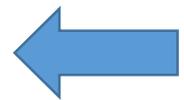
Error Amount

- Fixed value: 0.1
- Percentage: 5.0 %
- Standard deviation(s): 1.0
- Standard error
- Custom: Specify Value

You will now be brought back to the Chart page. Notice that there are error bars (in the positive direction) your first group.

Step 8: add the error bars in the negative direction by clicking on “specify value”

See arrow below...



graphs.xlsx - Excel

FILE HOME INSERT PAGE LAYOUT FORMULAS DATA

Add Chart Quick Element Layout Chart Layouts

Change Colors

	A	B	C	D	E
1			means		
2		systolic	diastolic	heart rate	
3	green-blue	117.26	69.21	67.32	
4	red-black	111.56	67.81	76.63	
5					
6					
7			SEMs		
8		systolic	diastolic	heart rate	
9	green-blue	7.26	9.21	3.2	
10	red-black	1.56	4.81	8	

Custom Error Bars

Positive Error Value
=Sheet1!\$B\$9

Negative Error Value
=1

OK Cancel

This will bring you back to your spreadsheet page.

Step 9: clear the field box directly under the heading “ negative error value”. This brings you back to your chart page (arrgghhhh). To get back to you data spreadsheet, just click on the bottom tab where the data is located (recall that mine was just Under sheet1).

Step 10: highlight the SAME SEMs as before (see step 6). Click on “Ok”



graphs.xlsx - Excel

FILE HOME INSERT PAGE LAYOUT FORMULAS DATA REVIEW

Add Chart Quick Element Layout Chart Layouts

Change Colors

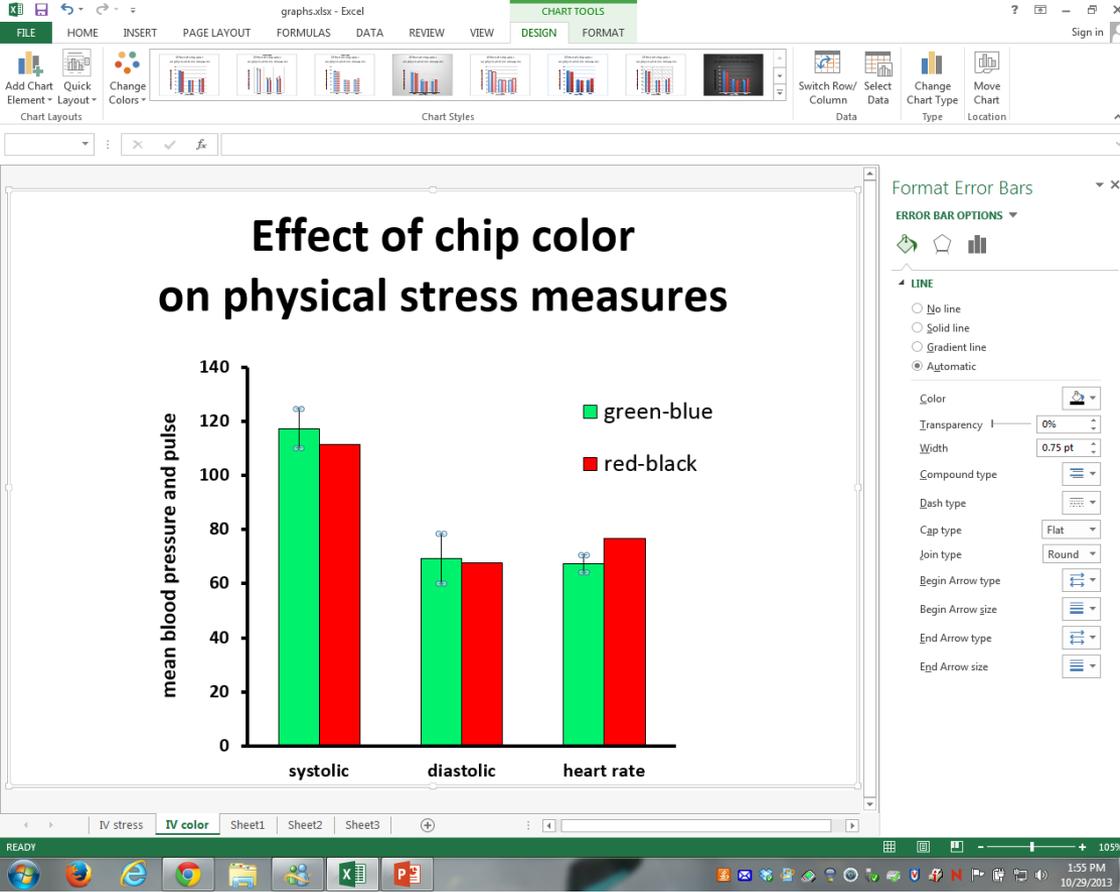
	A	B	C	D	E	F
1			means			
2		systolic	diastolic	heart rate		
3	green-blue	117.26	69.21	67.32		
4	red-black	111.56	67.81	76.63		
5						
6						
7			SEMs			
8		systolic	diastolic	heart rate		
9	green-blue	7.26	9.21	3.2		
10	red-black	1.56	4.81	8		

Custom Error Bars

Positive Error Value
=Sheet1!\$B\$9

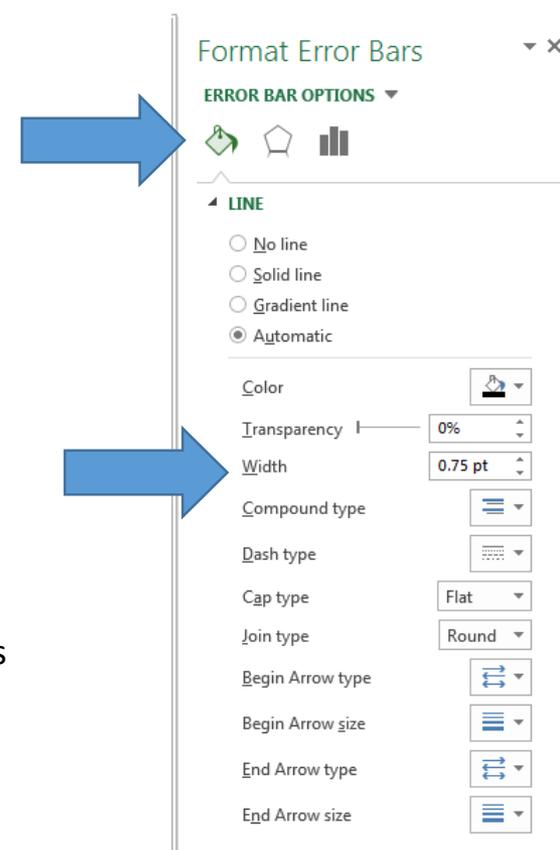
Negative Error Value
=Sheet1!\$B\$9

OK Cancel



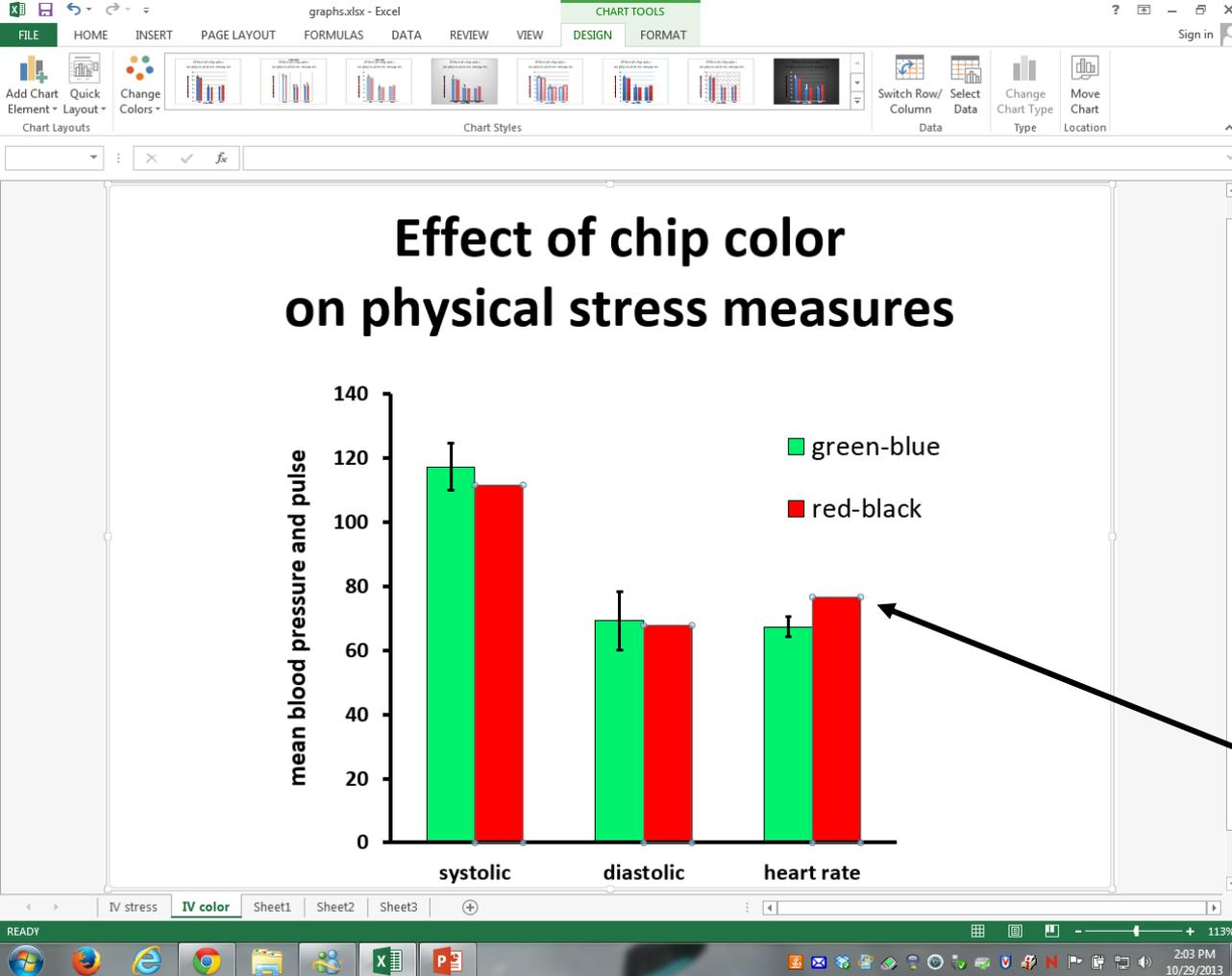
You've now added the SEMS for your first group. Repeat the process for the second group.

BUT WAIT! The line weight for the SEMs seems a little too faint.



Step 11: click on the paint can symbol, then increase the “width” to 2 pt – or whatever you think it should be.

Don't forget to repeat this step once you've put the SEMs on the graph for group 1.



Note: before you go to “add chart element”, “error bars”, “more error bars options”

... make sure the bars for your 2nd group have been selected.