WPHS Science Research Program

Graphing in Microsoft Excel Part 1: Column Charts

SWBAT: Use Microsoft Excel to create and edit a "column chart"

THESE DIRECTIONS ARE FOR A PC DESKTOP VERSION OF EXCEL. PLEASE SEE THE VIDEO TUTORIAL HERE FOR IPAD EXCEL:

https://youtu.be/YIUzSDOmQHI

Video tutorial explaining the following are here: https://youtu.be/h9F2jly_MqM

- 1) Download, save & open the Excel File "Average Monthly Temperatures Practice Data". Open in the Desktop version of Microsoft Excel.
- 2) Select all the data, including the headings
- Select "Insert" tab, then "Columns or Bar chart" icon
- 4) Choose "2D clustered column"

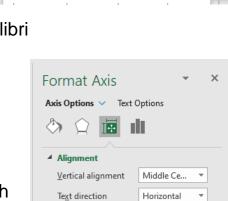
Creating an appropriate title:

5) Change the title to "Average Monthly Temperatures (2010-2019)", Bold, Font size 16, Calibri

Editing axes:

(NOT AN AVAILABLE OPTION WITH IPADS)

- 6) Change the names of the month to Bold, Font size 10, Calibri
- 7) Make sure the alignment for the names of the month are set to: vertical: middle center, Text direction: horizontal, Custom angle: -45
- 8) Change the y-axis (vertical) to Font size: 14, Calibri



Custom angle

Resize shape to fit text

3D

Мар

Tou

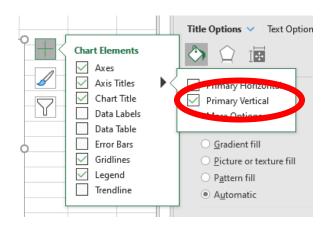
Forn

2-D Column

3-D Column

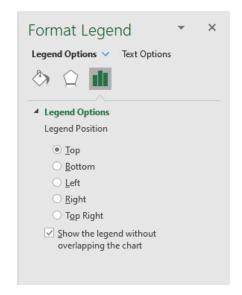
Creating appropriate labels for axes:

- Add in a title for the y-axis (vertical).
 Chart Elements: Axis Title: Primary Vertical
- 10) Change the title of the y-axis to "Temperature (F)", Font size 16, Calibri



Editing the Legend:

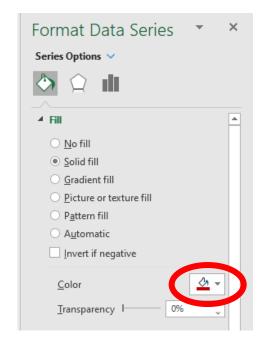
11) Move legend to the top by selecting "Format Legend: Legend Options: Top". Check the box for "Show the legend without overlapping the chart"



Changing colors of the bars:

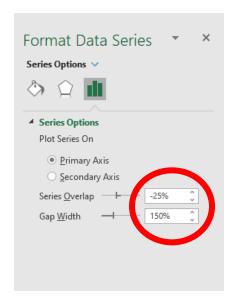
(NOT AN AVAILABLE OPTION WITH IPADS)

- 12) Change the color of the bars so that New York is in Red and Seattle is in Blue. Click on one of the bars for New York. All of the NY bars should be selected.
- 13) Change colors by clicking "Format Data Series: Fill: Solid Fill", then choose color.
- 14) Do the same steps above for the Seattle bars.



Changing the width & spacing of the bars: (NOT AN AVAILABLE OPTION WITH IPADS)

- 15) Make the bars wider and the space between months smaller. Select/Click on one of the bars for either city. All of the bars for that city should be selected.
- 16) Go to "Format Data Series: Series Options".
 Change series overlap to -25% and gap width to 150%



Be sure to save your work! Save file as "Your first and last name Column Graph 12 10 20". Upload to Schoology by Friday 12/11/20

