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## Quick Start Guide for Excel

P.S – you can use ctrl+F to search what you need in the If I need to column  
Also, if you type MATLAB into the ctrl+F search bar you can skip to the MATLAB quick start guide

If I need to...	Use these commands/directions...	WHERE CAN I GET MORE HELP?
Create a new workbook	Once you have opened excel you can double click on Blank Workbook and excel will load a new Blank Workbook.	<a href="https://www.linkedin.com/learning/learning-excel-2019/create-a-new-workbook?u=2203468">https://www.linkedin.com/learning/learning-excel-2019/create-a-new-workbook?u=2203468</a>  BTW- This^ links to Video tutorials teaching you the basics of excel and is extremely helpful!
Open an Existing workbook	When you open Excel, you can access already existing Workbooks through clicking on File in the top left (then a side window would appear) where you will find and double click on “open” this will enable you to look through your files for existing workbooks to work on/ access.	<a href="https://www.excel-easy.com/">https://www.excel-easy.com/</a>  this site is also useful for everything Excel ^
Add another sheet to my workbook	At the bottom of your workbook, you will see Sheet1 and next to it a + sign - simply click the plus to get a new sheet (2)	
Import Data	Click on Data at the top of your excel workbook -> Get data (top left) -> select from where you want to import the data -> select what type of file the data is in	
<b>Add</b> Values from separate Cells	=(cell column1)(cell row1) + (cell column2)(cell row2) Then press enter  Example: =C3 + C4	<a href="https://support.microsoft.com/en-us/office/create-a-simple-formula-in-excel-11a5f0e5-38a3-4115-85bc-f4a465f64a8a">https://support.microsoft.com/en-us/office/create-a-simple-formula-in-excel-11a5f0e5-38a3-4115-85bc-f4a465f64a8a</a>
<b>Subtract</b> Values from separate Cells	=(cell column1)(cell row1) - (cell column2)(cell row2) Then press enter  Example: =C3 - C4	<a href="https://support.microsoft.com/en-us/office/create-a-simple-formula-in-excel-11a5f0e5-38a3-4115-85bc-f4a465f64a8a">https://support.microsoft.com/en-us/office/create-a-simple-formula-in-excel-11a5f0e5-38a3-4115-85bc-f4a465f64a8a</a>
<b>Multiply</b> Values from separate Cells	=(cell column1)(cell row1) * (cell column2)(cell row2) Then press enter  Example: =C3 * C4	<a href="https://support.microsoft.com/en-us/office/create-a-simple-formula-in-excel-11a5f0e5-38a3-4115-85bc-f4a465f64a8a">https://support.microsoft.com/en-us/office/create-a-simple-formula-in-excel-11a5f0e5-38a3-4115-85bc-f4a465f64a8a</a>

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<b>Divide</b> Values from separate Cells	$=(\text{cell column1})(\text{cell row1}) / (\text{cell column2})(\text{cell row2})$ <p>Then press enter</p> <p>Example: =C3/C4</p>	<a href="https://support.microsoft.com/en-us/office/create-a-simple-formula-in-excel-11a5f0e5-38a3-4115-85bc-f4a465f64a8a">https://support.microsoft.com/en-us/office/create-a-simple-formula-in-excel-11a5f0e5-38a3-4115-85bc-f4a465f64a8a</a>
Graph my data	Highlight your data-> click on insert at the top -> go to recommended charts->choose which type of graph you want to use to graph your data.	<a href="https://www.workzone.com/blog/how-to-make-a-graph-in-excel/">https://www.workzone.com/blog/how-to-make-a-graph-in-excel/</a>
Excel Shortcuts	You can find loads of excel shortcuts here ->	<a href="https://www.customguide.com/cheat-sheet/excel-cheat-sheet.pdf">https://www.customguide.com/cheat-sheet/excel-cheat-sheet.pdf</a>
Set Decimal Places	You can enter a value into a cell and in the Home tab, in the Number group, click the Decrease/Increase Decimal button	<a href="https://www.excel-easy.com/basics.html">https://www.excel-easy.com/basics.html</a>

## Quick Start Guide for MATLAB

If I need to...	Use these commands/directions...	More info is found....
Set limits for x-axis for current axis  - The same can be done for the y-axis	Type in xlim(limits) into your command window  - ylim(limits)	By clicking the fx in the top left of the command window
Clear everything in the command window	Type clc into the command window	Type doc followed by the command you need help with into the command window to find out more about the command  Example: doc clc
Clear all variables in the workspace window	Type clear into the command window CAUTION: this will erase all set variables in the workspace	Type doc followed by the command you need help with into the command window to find out more about the command  Example: doc clear
Find a mean for given array values  If you have NaN values that you want to ignore in your given array use ->	Type into command window>> mean(A)  mean(A,'omitnan')	Type doc followed by the command you need help with into the command window to find out more about the command
Make a list of values (ie an Array)  You can set the number of values you want from a certain range using linspace ----->	Type into command window>> X = [ 1 2 3 4 5 ]  By typing the following into the command window: Y = linspace(lowerbound value, higherbound value, value of icrementation)	Type <b>doc Matrices and Arrays</b> into command window
Make a matrix	X =[1 2; 3 4; 5 6;] Will output a matrix 1 2 3 4 5 6  The ; creates a new line / row to put values in	Type <b>doc Matrices and Arrays</b> into command window

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Get a value from a matrix	In command window: <code>X = varNameofMatrix(rowValue,ColumnValue)</code>  Example:  If X is the matrix above you can do <code>Y = X(2,1)</code> and Y will equal the value 3	Chapter 2 of <a href="https://tinyurl.com/ty2rjxb7">https://tinyurl.com/ty2rjxb7</a>
Plot a Vertical Bar Plot	Function Format: <code>bar(x,y)</code> example: <code>yr=[1988:1994];</code> <code>sle=[8 12 20 22 18 24 27];</code> <b><code>bar(yr,sle, 'r')</code> – 'r' will color the bars red</b> <code>x1abe1(' Year ')</code> <code>ylabel(1Sales (Mil lions) 1)</code>	Pdf Page 164 - 172 <a href="https://tinyurl.com/ty2rjxb7">https://tinyurl.com/ty2rjxb7</a>
Plot a different type of plot I.e. Horizontal Bar plot-----→ Stairs plot-----→ Stem plot-----→	<b><code>bar(xaxis,yaxis)</code></b> <b><code>stairs(xaxis,yaxis)</code></b> <b><code>stem(xaxis,yaxis)</code></b>	Pdf Page 164 - 172 <a href="https://tinyurl.com/ty2rjxb7">https://tinyurl.com/ty2rjxb7</a>
Plot a pie chart with given data	<code>x = [ 20 20 20 20 20]</code> <code>pie(x) &lt;-</code> should have 5 equal slices	Pdf Page <b>165</b> <a href="https://tinyurl.com/ty2rjxb7">https://tinyurl.com/ty2rjxb7</a>
Plot a histogram	Command is <b><code>&gt;&gt;hist(y)</code></b>  You can also do <b><code>hist(y,3)</code></b> to divide the histogram into 3 equally spaced subranges	Pdf Page <b>167</b> <a href="https://tinyurl.com/ty2rjxb7">https://tinyurl.com/ty2rjxb7</a>
Label axis	Command is <b><code>&gt;&gt; xlabel('x axis')</code></b>  You can do the same for y -> <code>ylabel(' blah ')</code>	Type doc xlabel in command window