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How to Build a Population Pyramid in Excel: Step-by-Step Guide

By Carol | September 10, 2018

Making a population pyramid, or age-sex distribution graph, in Excel has never been easier than with this step-by-step guide that takes you all the way from gathering the needed demographic data to the finished product – a graphically-accurate (and beautiful!) population pyramid.

A few notes before we begin:

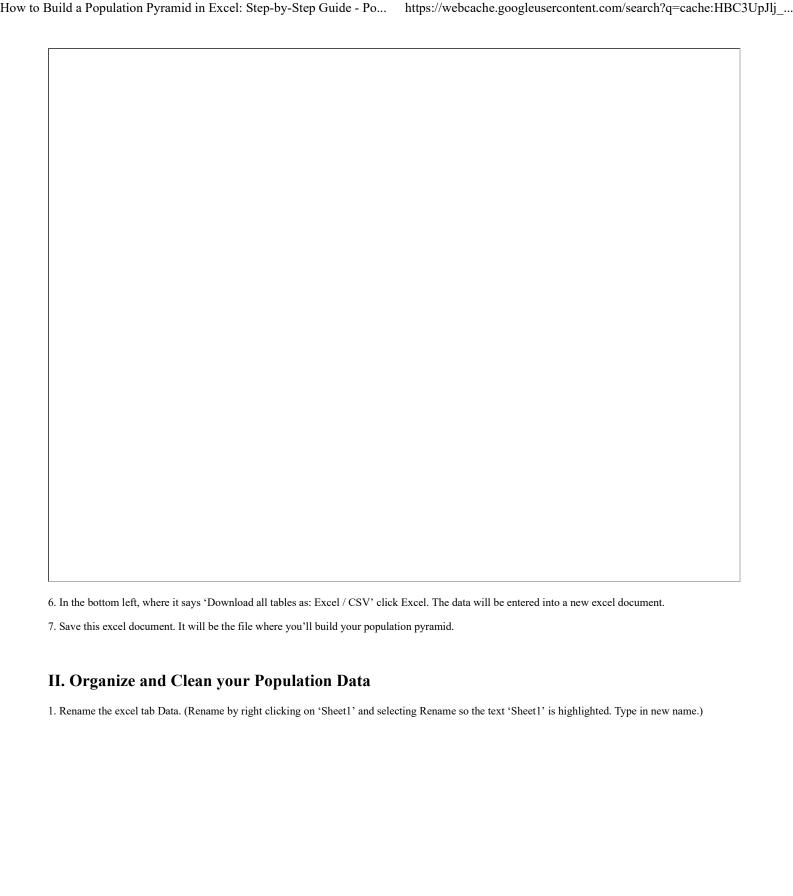
- This guide is based on using Microsoft Excel 2016.
- Where I say "click" you might need to double click.
- Don't forget to save throughout.

Let's get started!

I. Get the Population Data for your Country

| 1. Go to the <u>U.S. Census Bureau's International Database</u> . |
|-------------------------------------------------------------------------------------------------------------------------|
| 2. Under 'Select Report' choose 'Population by Five Year Age Groups.' |
| 3. Under 'Select one or more Countries or Areas' choose the country of your choice. I chose Guatemala for this example. |
| 4. Click Submit. |
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5. The generated report will look like this:

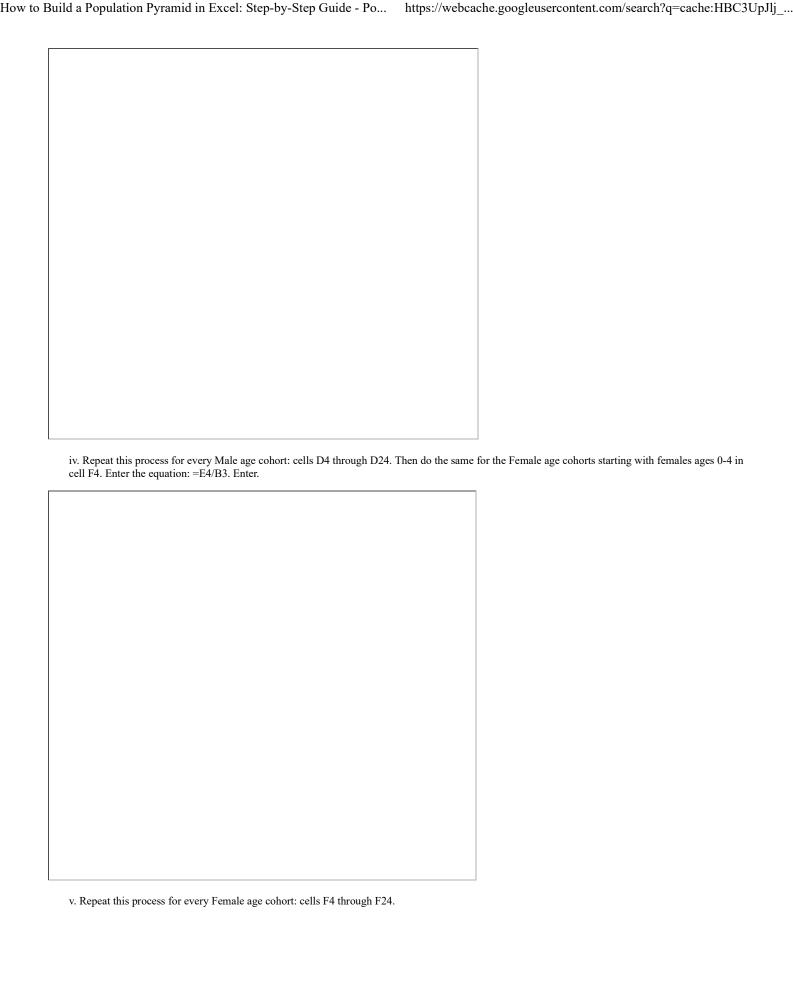


| 2. Delete columns H, I, J, and K. And then delete columns A, B, and C. Population; Male Population; Female Population. | You won't need any of this data. You'll be left with four co | olumns: Age; Both Sexes |
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| 3. Insert a new column between Male Population and Female Population | n and label it 'Male Percentage (%).' Label the column to t | he right of Female |
| Population column as 'Female Percentage (%).' | 5 () | |
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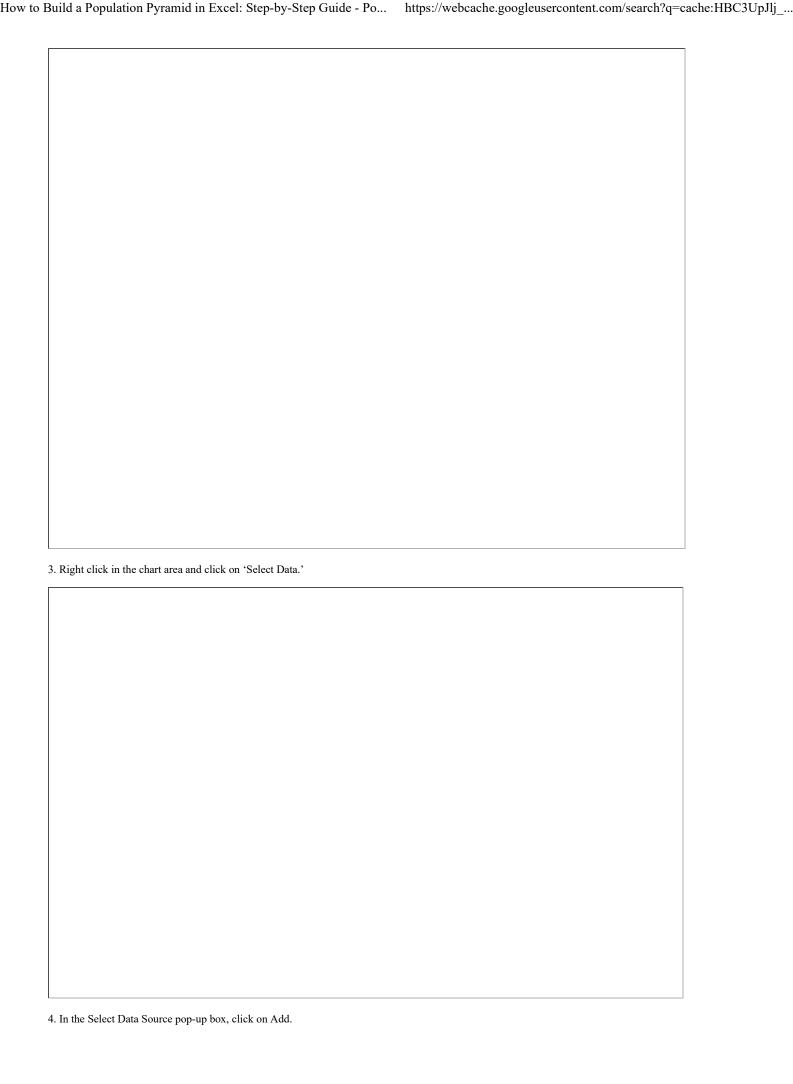


iii. For every new age/sex cohort, you need to enter the appropriate data as the numerator, but always the total population of both sexes as the denominator. So for Males ages 5-9, the equation is: =C5/B3. Enter.



| 6. In a new column, retype the i. Label column H as 'M | Male %' | numbers. What this mea | ans is: | | |
|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------|------------------------|---------|--|--|
| 6. In a new column, retype the interest in Label column H as 'Min in Highlight the column | ne Male Percentage data as fale %' , right click and select Forn | numbers. What this mea | ans is: | | |
| 6. In a new column, retype the interest in Label column H as 'Min in Highlight the column | ne Male Percentage data as fale %' , right click and select Forn | numbers. What this mea | ans is: | | |
| 6. In a new column, retype the interest in Label column H as 'Min in Highlight the column | ne Male Percentage data as fale %' , right click and select Forn | numbers. What this mea | ans is: | | |
| 6. In a new column, retype the interest in Label column H as 'M in Highlight the column | ne Male Percentage data as fale %' , right click and select Forn | numbers. What this mea | ans is: | | |
| 6. In a new column, retype the interest in Label column H as 'M in Highlight the column | ne Male Percentage data as fale %' , right click and select Forn | numbers. What this mea | ans is: | | |
| 6. In a new column, retype the interest in Label column H as 'M in Highlight the column | ne Male Percentage data as fale %' , right click and select Forn | numbers. What this mea | ans is: | | |
| 6. In a new column, retype the interest in Label column H as 'M ii. Highlight the column | ne Male Percentage data as fale %' , right click and select Forn | numbers. What this mea | ans is: | | |
| 6. In a new column, retype the interest in Label column H as 'M in Highlight the column | ne Male Percentage data as fale %' , right click and select Forn | numbers. What this mea | ans is: | | |
| 6. In a new column, retype the interest in Label column H as 'M in Highlight the column | ne Male Percentage data as fale %' , right click and select Forn | numbers. What this mea | ans is: | | |
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| 6. In a new column, retype the interest in Label column H as 'M in Highlight the column | ne Male Percentage data as fale %' , right click and select Forn | numbers. What this mea | ans is: | | |
| 6. In a new column, retype the interest in Label column H as 'M in Highlight the column | ne Male Percentage data as fale %' , right click and select Forn | numbers. What this mea | ans is: | | |
| 6. In a new column, retype the interest in Label column H as 'M in Highlight the column | ne Male Percentage data as fale %' , right click and select Forn | numbers. What this mea | ans is: | | |
| 6. In a new column, retype the interest in Label column H as 'M ii. Highlight the column | ne Male Percentage data as fale %' , right click and select Forn | numbers. What this mea | ans is: | | |
| 6. In a new column, retype the interest in Label column H as 'M ii. Highlight the column | ne Male Percentage data as fale %' , right click and select Forn | numbers. What this mea | ans is: | | |

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| | Don't forget to save your hard | | | | |
| III. Create your | Population Pyram | iid | | | |
| 1. Add a second sheet (by population pyramid. | clicking on the + symbol on t | the lower tab bar) and re | ename it Country Pyrami | d. This is where you will | actually build your |
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| 2. Click Insert on the main | n toolbar. In the Chart area, cl | ick on the Column/Bar | Chart dropdown and sele | ect Clustered Bar under th | e heading 2-D Bar. |
| 2. Click Insert on the main | n toolbar. In the Chart area, cl | ick on the Column/Bar | Chart dropdown and sele | ect Clustered Bar under th | e heading 2-D Bar. |
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| 2. Click Insert on the main | n toolbar. In the Chart area, cl | ick on the Column/Bar | Chart dropdown and sele | ect Clustered Bar under th | e heading 2-D Bar. |



| 5. In the Edit Series pop-up box, fill in the Series | es name with MALES. And in the Series valu | nes field, delete all text so the field is empty |
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| 6. With your cursor still in the Series values fie | ald aliak on the lawer tak for Data to return to | s vous data Galda |
| o. With your cursor still in the series values he | end, effect on the lower tab for Data to feturn to | your data fields. |
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| 7. Highlight the data in the Male % column (H ² | 4 through H24). | |
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| 8. Click OK in the Edit Series pop-up box. The graph should look like this: | |
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| 9. Now back in the Select Data Source pop-up box, repeat the process for Fema | ales by: |
| i. Clicking Add. | |
| ii. Write FEMALES in the Series name field. | |
| iii. Delete the text out of the Series value field. | |
| iv. While the cursor is still in the Series value field, go into the Data sheet | and select the cells of female data (I4 though I24). |
| v. Click OK in the Edit Series pop-up box. | |
| The Select Data Source should now look like this. | |
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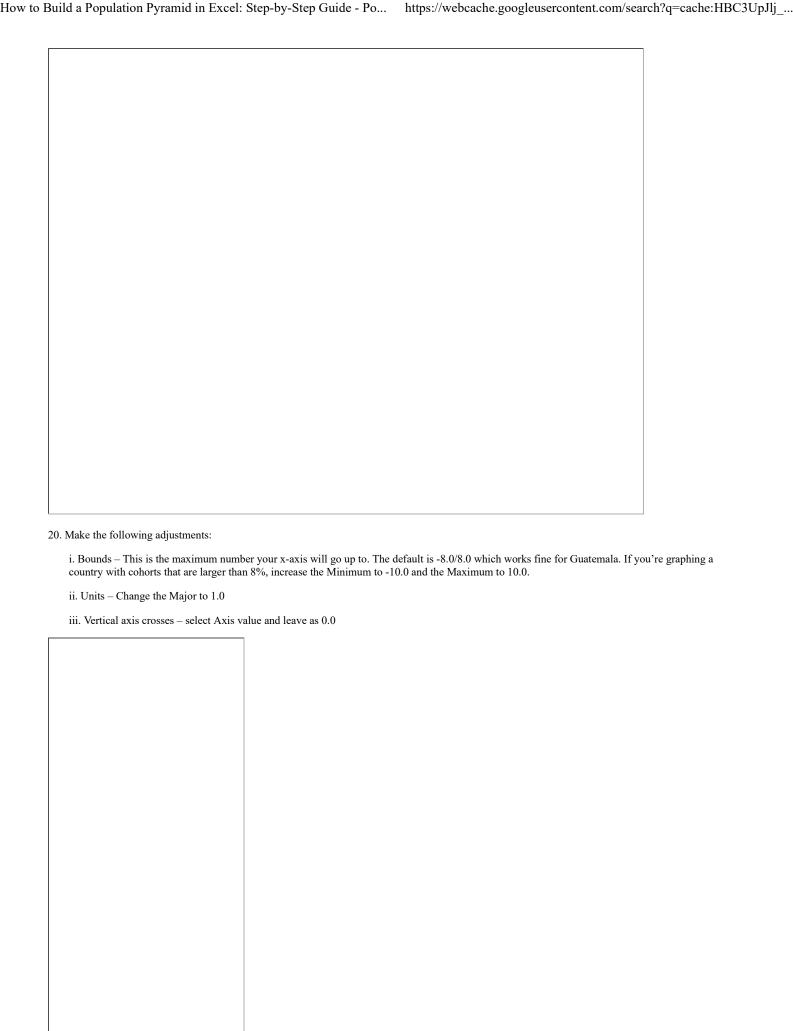
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| 10. Click on the Edit button under Horizontal (Category) Axis Labels so the Axis Labels po | op-up box appears. |
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| 11. Click inside the empty field and while your cursor is there, go into the Data sheet and so | elect the cells of Years (A4 through A24). |
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| 12. Click OK in the Axis Labels box. The Select Data Series pop-up box should look like to | his. Click OK. |
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14. Click on Labels and change the Label Position to 'Low.'

| This will move the y-axis labels from the ce | enter of the graph to the left side. And your graph should look like this: |
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| 15 Double click on any one of the data house | s on the graph (blue or orange) to bring up the Format Data Series control column. Click on the Series Options |
| icon to the far right. | s on the graph (oftie of orange) to oring up the Pormat Data Series control column. Chek on the Series Options |
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| And now your graph should look like this: | | | | |
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| 17. While still in the Format Data Series control add an outline to one half of your graph. | rol column, click on the Fill & | Line icon and change to Boro | der to 'Solid Line.' Also change | the Color to black |
| 18. Double click on the other side of your gra | ph that doesn't have the outlin | e, change the Border to 'Solid | Line' and the Color to black. | |
| Now your graph should look like this: | | | | |
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| 19. Click on any number in the x-axis to bring | g up the Format Axis control c | olumn. Click on the far right i | con for Axis Options. | |
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| 21. Still in the Format Axis control column and in the Axis Options section | , now click on Number and make the following adjustments: |
|------------------------------------------------------------------------------|-----------------------------------------------------------|
| i. Category: Custom | |
| ii. Type: 0;0 | |
| iii. Format Code: 0;0 | |
| iv. Click Add | |
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| Now your graph should look like this: | 1 |
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| 22. Add a title to you pyramid and labels for the x- and y-axis. To do this: | |

i. Click anywhere within the chart area to bring up three control buttons to the upper right of the graph. They look like this:

| ii. Click on the + to open a list of Chart Elements. | |
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| iii. Check the box for Axis Title and the text "Axis Title" will appear as | labels for the x- and y-axis. Double click on each of those to highlight and |
| relabel. | |
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| iv. Label the x-axis Percentage of Population. Label the y-axis Years. | |
| iv. Label the x-axis Percentage of Population. Label the y-axis Years. Your graph should look like this: | |
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| 23. Give your graph a title. |
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| i. Click anywhere within the chart area to bring up the three control buttons. Click on the top + button, and check the box for Chart Title so the to "Chart Title" appears at the top of your graph. |
| ii. Double click on "Chart Title" to highlight and retitle. |
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| iii. Type in the name of the country and the data's year. |
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| 24. If you'd like to change the colors of your graph, double click on either side to pull up the Format Data Series control column. Click on the far left for Fill & Border. Click on Fill and choose a new color option. Then double click on the other side of your graph to change the color on that side. |
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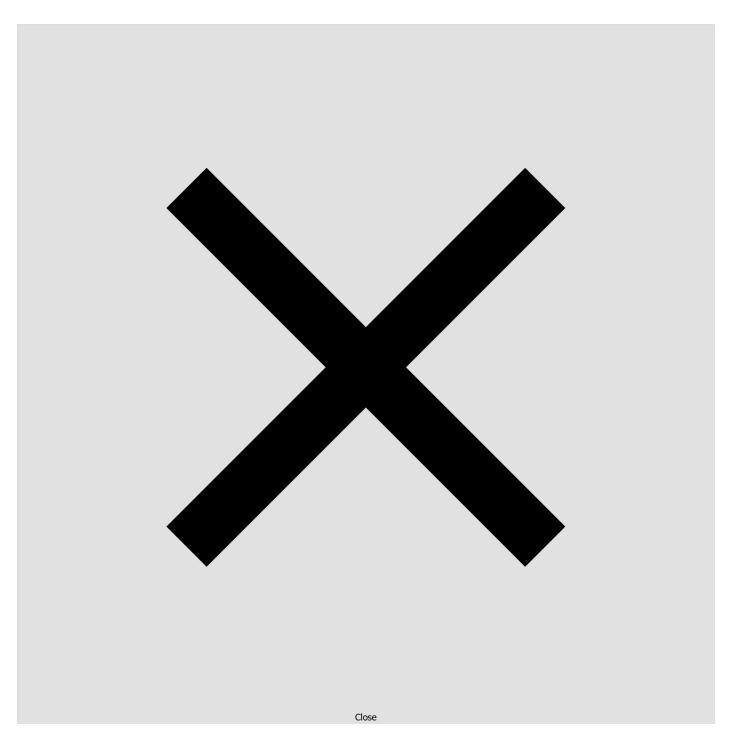
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