# How do I calculate year over year growth in Excel?

Authored by

**stats writer**

June 26, 2024

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RECOMMENDED CITATION

stats writer (2024). *How do I calculate year over year growth in Excel?*. PSYCHOLOGICAL SCALES. Retrieved from https://scales.arabpsychology.com/?p=153461

To calculate year over year growth in Excel, you can use the formula =((current year value/previous year value)-1)*100. This will give you the percentage growth between the two years. Alternatively, you can use the built-in function "YOY" which calculates the year over year growth automatically. Simply input the range of values for the two years and the function will return the percentage growth. This calculation is useful in analyzing trends and evaluating the performance of a company or product over time.

## Calculate Year Over Year Growth in Excel

## You can use the following formula to calculate year over year (YoY) growth for some company:

## YoY Growth = (Current Period Revenue / Previous Period Revenue) - 1

## For example, suppose a company earns $8 million in revenue this year and earned $5 million in revenue last year.

## We would calculate their year over year growth to be 60%:

## Year over Year Growth = ($8 million / $5 million) - 1 = 0.60

## The following example shows how to use this formula to calculate year over year growth for a company in

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# Excel.

## Example: Calculate Year Over Year Growth in Excel

## Suppose we have the following dataset that shows the total revenue for some company during 10 consecutive years:

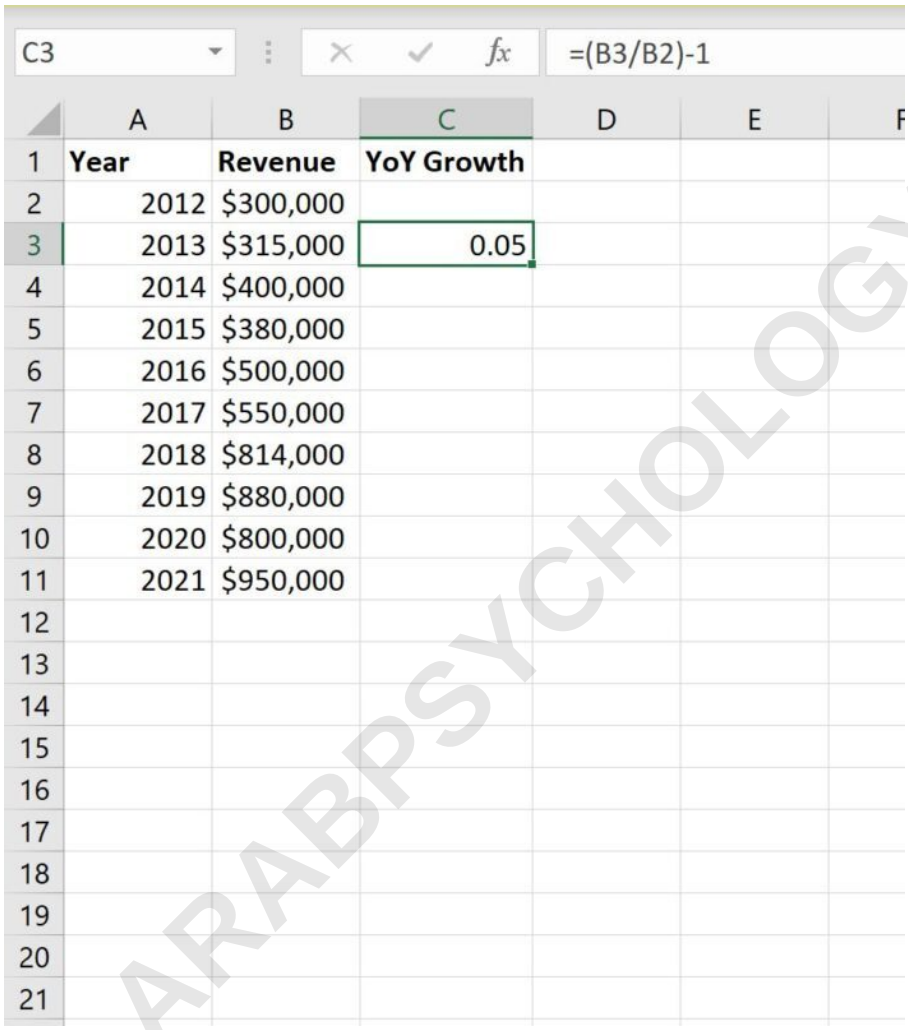
| | A | B | C | D | E |
|---|---|---|---|---|---|
| 1 | **Year** | **Revenue** | | | |
| 2 | 2012 | $300,000 | | | |
| 3 | 2013 | $315,000 | | | |
| 4 | 2014 | $400,000 | | | |
| 5 | 2015 | $380,000 | | | |
| 6 | 2016 | $500,000 | | | |
| 7 | 2017 | $550,000 | | | |
| 8 | 2018 | $814,000 | | | |
| 9 | 2019 | $880,000 | | | |
| 10 | 2020 | $800,000 | | | |
| 11 | 2021 | $950,000 | | | |
| 12 | | | | | |
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| 14 | | | | | |
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## We can type the following formula into cell C3 to calculate the year over year growth between 2012 and 2013:

## =(B3/B2)-1

## Once we press Enter, the year over year growth will be displayed as a decimal:




| | A | B | C | D | E |
|---|---|---|---|---|---|
| 1 | Year | Revenue | YoY Growth | | |
| 2 | 2012 | $300,000 | | | |
| 3 | 2013 | $315,000 | 0.05 | | |
| 4 | 2014 | $400,000 | | | |
| 5 | 2015 | $380,000 | | | |
| 6 | 2016 | $500,000 | | | |
| 7 | 2017 | $550,000 | | | |
| 8 | 2018 | $814,000 | | | |
| 9 | 2019 | $880,000 | | | |
| 10 | 2020 | $800,000 | | | |
| 11 | 2021 | $950,000 | | | |
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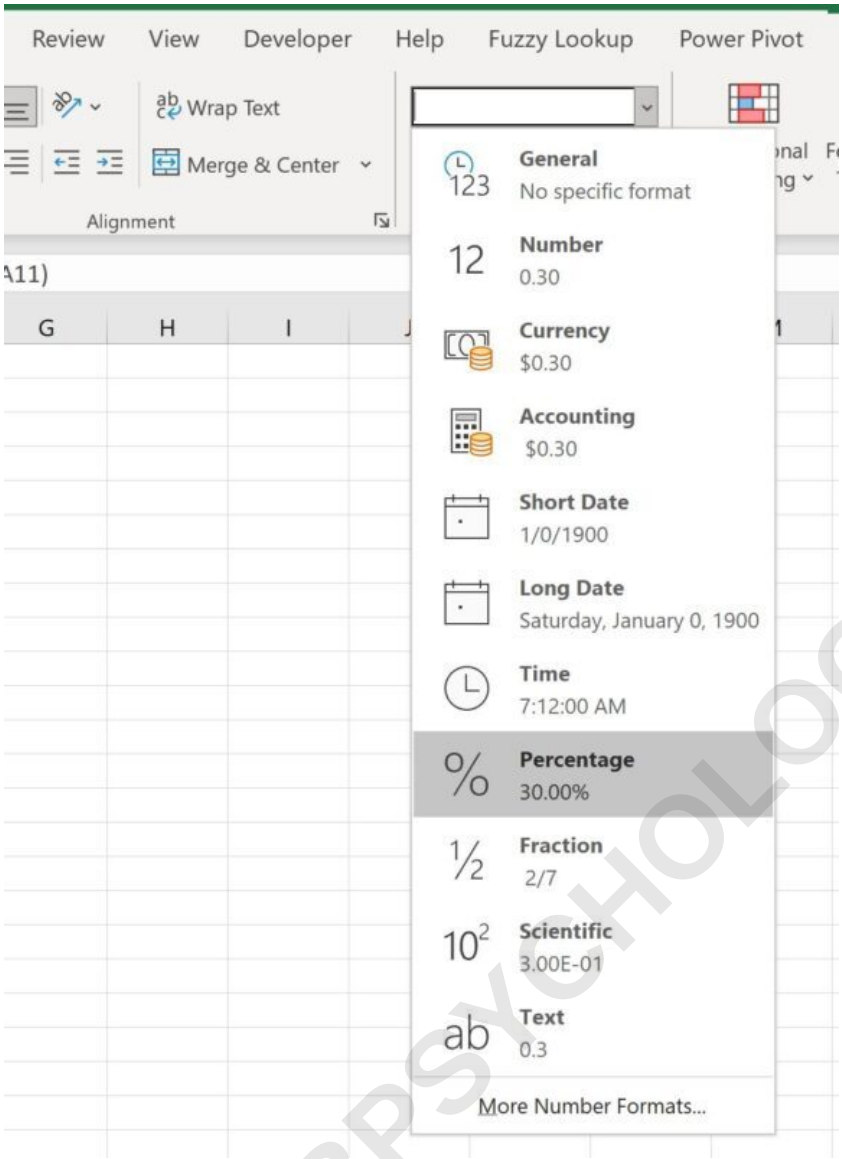
## We can see that the year over year growth from 2012 to 2013 is 5%, which was calculated as:

## Year over Year Growth = ($315,000 / $300,000) - 1 = 0.05

## We can then drag and fill this formula down to each remaining cell in column C to calculate the year over year growth each year:

| | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| 1 | **Year** | **Revenue** | **YoY Growth** | | | |
| 2 | 2012 | $300,000 | | | | |
| 3 | 2013 | $315,000 | 0.05 | | | |
| 4 | 2014 | $400,000 | 0.2698413 | | | |
| 5 | 2015 | $380,000 | -0.05 | | | |
| 6 | 2016 | $500,000 | 0.3157895 | | | |
| 7 | 2017 | $550,000 | 0.1 | | | |
| 8 | 2018 | $814,000 | 0.48 | | | |
| 9 | 2019 | $880,000 | 0.0810811 | | | |
| 10 | 2020 | $800,000 | -0.0909091 | | | |
| 11 | 2021 | $950,000 | 0.1875 | | | |
| 12 | | | | | | |
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## The year over year growth values will automatically be formatted as percentages:

| | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| 1 | **Year** | **Revenue** | **YoY Growth** | | | |
| 2 | 2012 | $300,000 | | | | |
| 3 | 2013 | $315,000 | 5.00% | | | |
| 4 | 2014 | $400,000 | 26.98% | | | |
| 5 | 2015 | $380,000 | -5.00% | | | |
| 6 | 2016 | $500,000 | 31.58% | | | |
| 7 | 2017 | $550,000 | 10.00% | | | |
| 8 | 2018 | $814,000 | 48.00% | | | |
| 9 | 2019 | $880,000 | 8.11% | | | |
| 10 | 2020 | $800,000 | -9.09% | | | |
| 11 | 2021 | $950,000 | 18.75% | | | |
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**Notice that whenever revenue is down in a given year, the year over year growth percentage is negative.**

**For example, consider the years 2019 and 2020.**

**Here is how the year over year growth was calculated for 2020:**

**Year over Year Growth = ($800,000 / $880,000) - 1 = -0.0909**

**The year over year growth is -9.09% since revenue decreased from the current year compared to the previous year.**

**The following tutorials explain how to perform other common tasks in Excel:**

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