POWER BI:
VISUAL CALCULATIONS

fx

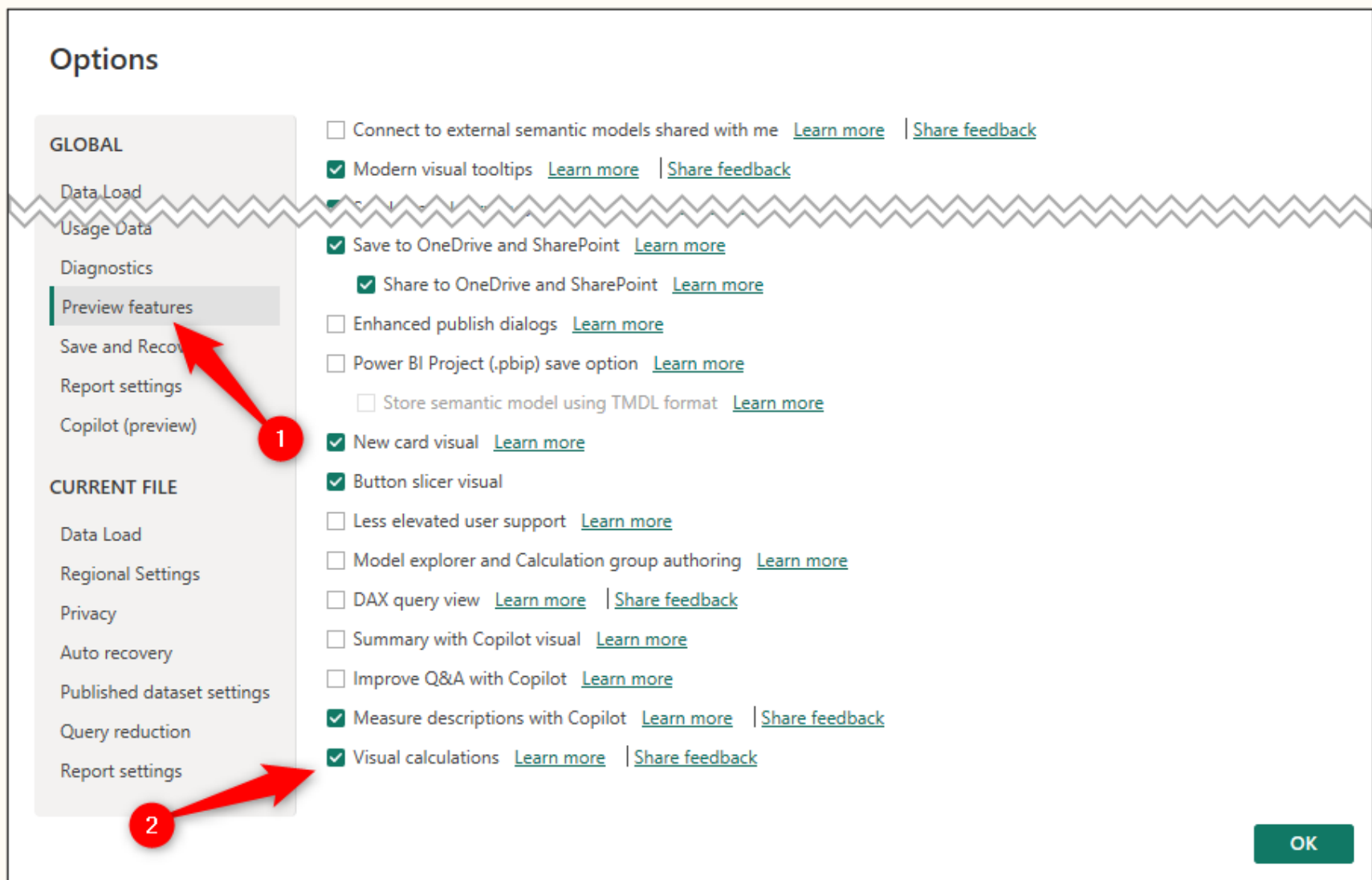# DAX HAS CHANGED FOREVER

PREVIEW FEATURE

Visual Calculations are currently a preview feature.

Enable them from your Options window.

SIMPLE DAX

Create calculated column style calculations within the visual.

These calculations execute fast, are simple, and exist only in the visual (not in the model).

| $\times$ $\checkmark$ fx | 1 | Revenue per Sale = [Total Revenue] / [Count of Sales] |

Region	Total Revenue	Count of Sales	Revenue per Sale
East	€ 99,635	1,803	55.26
North East	€ 87,038	1,280	68.00
North West	€ 121,206	1,971	61.49
South	€ 134,391	1,827	73.56
West	€ 119,962	2,139	56.08
Total	**€ 562,233**	**9,020**	**62.33**

CALCULATION TEMPLATES

Calculation templates are provided for common calculations such as running totals, percent of totals, and moving average.

Just fill in the provided placeholders like in the 'Versus Previous' template below.

PERCENT VARIANCE

By adding familiar DAX such as DIVIDE, a percent variance to previous row calculation is done.

At present, there is no an option to format the values, except FORMAT which converts the value to text.

```
1  Versus previous =
2      DIVIDE(
3          [Total Revenue] - PREVIOUS([Total Revenue]),
4          PREVIOUS([Total Revenue])
5      )
```

Month Name	Total Revenue	Versus previous
Jan	€ 32,367	
Feb	€ 28,067	-0.13
Mar	€ 49,946	0.78
Apr	€ 42,529	-0.15
May	€ 48,536	0.14
Jun	€ 64,587	0.33
Jul	€ 63,576	-0.02
Aug	€ 65,478	0.03
Sep	€ 83,824	0.28
Oct	€ 39,303	-0.53
Nov	€ 17,603	-0.55
Dec	€ 26,417	0.50
Total	**€ 562,233**	

VAR AND RETURN

You can create variable to make complex formulas more easy to digest and calculate faster.

FORMAT is used to format the previous result as a percent, in this example.

```
1  Versus previous =
2      VAR MonthPercent =
3          DIVIDE(
4              [Total Revenue] - PREVIOUS([Total Revenue]),
5              PREVIOUS([Total Revenue])
6          )
7      RETURN
8          FORMAT(MonthPercent, "0%")
```

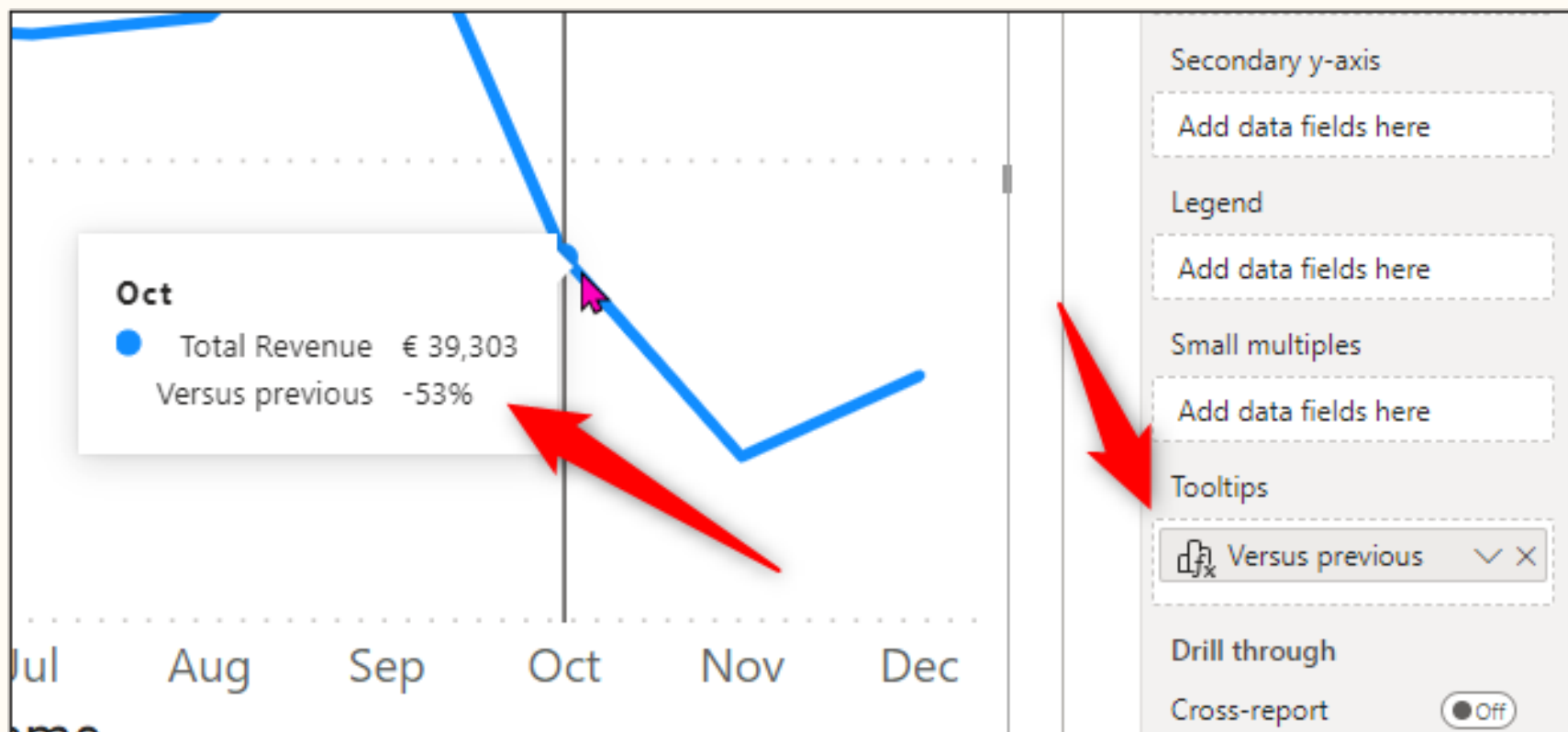| Month Name	Total Revenue	Versus previous
Jan	€ 32,367	
Feb	€ 28,067	-13%
Mar	€ 49,946	78%
Apr	€ 42,529	-15%
May	€ 48,536	14%
Jun	€ 64,587	33%
Jul	€ 63,576	-2%
Aug	€ 65,478	3%
Sep	€ 83,824	28%
Oct	€ 39,303	-53%
Nov	€ 17,603	-55%
Dec	€ 26,417	50%
Total	**€ 562,233**	

USING IN TOOLTIPS

Although constrained to the visual, we are not just talking tables and columns here.

In this example, a line chart is the visual, and the calculation has been used for the Tooltip.

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