



Microsoft

Excel 365 ADVANCED X

CONDITIONAL FORMATS

- **Conditional format:** Formatting that changes based on the value in the cell, unlike traditional formats.

Your rules can:

- Reflect whether values are above or below a specific threshold
- Indicate how large a value is when compared to other values to which the same rule is applied
- Identify the smallest and largest values in the selected range

Display the Conditional Formatting list:

- Select the appropriate cells.
- Go to the **Styles** group on the **Home** tab.



Click Conditional Formatting:

HIGHLIGHTING RULES

Create a cell-highlighting rule:

- Display the **Conditional Formatting** list.
- Point to **Highlight Cells Rules** and then click the type of rule you want to create.
- Go to the dialog box that appears.
 - Define a rule to specify when Excel should apply the format.
 - Click the list box's down arrow and click a predefined format.

OR

- Click **Custom Format**
- Go to the **Format Cells** dialog box.
- Define the format.
- Click **OK**.
- Click **OK**.

Create a top or bottom rule:

- Display the **Conditional Formatting** list.
- Point to **Top/Bottom Rules**.
- Click the type of rule you want to create.
- Go to the dialog box.
- Create the rule to specify when Excel should apply the format.
 - Click the list box's down arrow and click a predefined format.

OR

- Click **Custom Format**
- Go to the **Format Cells** dialog box.
- Define the format.
- Click **OK**.
- Click **OK**.

Highlight unique or duplicate values in a range:

- Display the **Conditional Formatting** list.
- Point to **Highlight Cells Rules**.
- Click **Duplicate Values**.
- Go to the **Duplicate Values** dialog box.
 - Click the **Format cells that contain list box's** down arrow.
 - Click **Duplicate** or **Unique**.
 - Click the list box's down arrow and click a predefined format.

OR

- Click **Custom Format**, use the controls in the **Format Cells** dialog box to define the format, and then click **OK** twice.

DATA BAR, COLOR SCALE & ICON SET FORMATS

Data Bars

Comparing two numbers in an Excel worksheet is easy, but it's difficult to compare multiple numbers with a quick glance.

- **Data bar conditional format:** Formatting that displays a color bar in the background of a cell so you can quickly compare the relative magnitude of values in a list.
- The length of the data bar represents the size of that cell's value in relation to the other cells to which you applied the conditional format.

Create a data bar conditional format:

- Display the **Conditional Formatting** list.
- Point to **Data Bars**.
- Click the format you want to apply.

Types of Data Bars

Gradient Fill formats:

- Gradually change from a solid fill at the left edge of the cell to white as the data bar goes across the cell
- Were introduced in Excel 2007

Solid Fill formats:

- Remain a solid color for the entire length of the data bar
- Were added to Excel 2010 after user feedback indicated Gradient Fill data bars were hard to interpret.

Year	Sales
2019	\$ 1,300,000
2020	\$ 2,900,000
2021	\$ 1,850,000

Solid Fill Data Bar



Gradient Fill Data Bar

Show a data bar without showing the cell's contents:

- Display the **Conditional Formatting** list.
- Point to **Data Bars**.
- Click **More Rules**.
- Go to the **New Formatting Rule** dialog box.
- Check the **Show Bar Only** box.
- Click **OK**.

Show negative values using a data bar:

- Display the **Conditional Formatting** list.
- Point to **Data Bars**.
- Click **More Rules**.
- Go to the **New Formatting Rule** dialog box.
- Click the **Negative Value and Axis** button.

- Go to the **Negative Value and Axis Settings** dialog box.

- Click the **Fill Color** button and select a fill color for negative values.

OR

- Select the **Apply same fill color as positive bar** option.

- In the **Axis** settings section of the dialog box, select any of these options to position the axis separating positive and negative values:

- **Automatic** (display at variable position based on negative values)
- **Cell midpoint**
- **None** (show negative values in the same direction as positive)

- Click the **Axis color** button and select a color for the axis.

- Click **OK** twice to close the dialog boxes.

Color Scales

Color scales use gradually changing colors, called **gradients**, to represent changes in cell values.

EX: A color scale that displays cells with small values in white and larger values in red would fill the background of the cell that contains the smallest value with a pure white background and add bits of red to represent larger values. The cell that contains the largest value in the range would have a background of pure red.

Create a color scale conditional format:

- Display the **Conditional Formatting** list.
- Point to **Color Scales**.
- Click the format you want to apply.

NOTE: You can select two-color or three-color **Color Scales**. If your data falls into two distinct ranges, use a **two-color scale**. If your data falls into three distinct ranges, such as poor, fair, and good performance, use a **three-color scale**.

Hour	Station 1	Station 2	Station 3	Station 4
1	13	52	89	29
2	58	74	37	32
3	9	14	84	15
4	8	31	43	52
5	72	60	52	89

Two-Color Color Scale

Base color scales on specific minimum & maximum values:

- Display the **Conditional Formatting** list.
- Point to **Color Scales**.
- Click **More Rules**.
- Go to the **New Formatting Rule** dialog box.
- Click the **Minimum column's Type** list box's down arrow.
- Click **Number**.
- Go to the **Minimum column's Value** box.
- Enter a minimum scale value.
- Click the **Maximum column's Type** list box's down arrow.
- Click **Number**.

- Go to the **Maximum column's Value** box.
- Enter a maximum scale value.

- Click **OK**.

NOTE: Any values below the minimum you set will be formatted as if they were the minimum value. Excel treats values larger than the maximum you set in a similar way.

- Display the **Conditional Formatting** list.
- Point to **Color Scales**.
- Click **More Rules**.
- Go to the **New Formatting Rule** dialog box.
- Click the **Minimum column's Color** control's down arrow.
- Click the color you want to apply.
- Click the **Maximum column's Color** control's down arrow.
- Click the color you want to apply.
- Click **OK**.

Icon Sets

- **Icon sets:** Collections of small graphics, or icons, that visually represent how the contents of a worksheet cell compare to a set of criteria you define.
- Quick visual summaries are perfect for dashboards and worksheets that summarize an organization's operational data in relation to metrics established by the organization.
 - Most dashboards use a variation of green, yellow, and red traffic lights to indicate good, fair, and poor performance.

Create an icon set conditional format:

- Display the **Conditional Formatting** list.
- Point to **Icon Sets**.
- Click the format you want to apply.

Month	On-Time %
January	83
February	72
March	94
April	70

Three-Indicator Icon Set

Apply icons by number instead of percent:

- Display the **Conditional Formatting** list.
- Point to **Icon Sets**.
- Click **More Rules**.
- Go to the **New Formatting Rule** dialog box.
- Click the first **Type** list box's down arrow.
- Click **Number**.

NOTE: You should change the rule type first when creating or editing an icon set rule where Excel compares values to a number rather than a percent of the value. If you change the **Value** and comparison operators and then change the type to **Number**, Excel will reset the comparison operator and contents of the **Value** box.

- Click the first comparison operator list box's down arrow.
- Select the operator to use in the comparison.

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designation stuart i 5 811 vehicles were produced 1 285 m3s had guiberson diesel installed and were called stuart ii by

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40 80 2 60 c 0 25 2 0 5

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web calculation process results a m s_2 f_u m g μ m a f_u kn permissible feed force f_u tab f_u zul per f_u zul per f 4 05 kn kn
condition f_u zul per f_u kn kn fulfilled rack and pinion drive calculation and selection v t b calculation example values given
travelling operation mass to be moved m 820 kg

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teeth this pinion engages a linear gear the rack to convert rotational motion into translational motion

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module more distance u will travel for one rotation of pinion and lower

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racks opposite each other and the teeth surfaces are tangent to the faces the center pinion is a 20 tooth 2 module gear

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pinion to produce the distance of the rack and is commonly used in vehicle and other types of engines and mechanical
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90 meters and more from module 1 to 12 rack quality 4 to 10 straight or helical teeth and so on accuracy is the starting point of the total drive which is why we can provide the calculation and accuracy sheet for your

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