

How to Add Custom Data Labels from a Different Column in Excel

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November 11, 2025

RECOMMENDED CITATION

Mohammed looti (2025). *How to Add Custom Data Labels from a Different Column in Excel*. PSYCHOLOGICAL STATISTICS. Retrieved from <https://statistics.arabpsychology.com/?p=16608>

In advanced data visualization using [Excel](#), chart customization often goes beyond the standard display options. A frequent requirement is the need to attach descriptive information to plotted points, where that information--the **data labels**--resides in a column separate from the data used for the axes. While Excel automatically defaults to using the X or Y coordinates (or both) as labels, this approach is insufficient when unique identifiers, such as player names or specific categories, are needed for clarity.

This comprehensive guide details the precise, step-by-step methodology required to seamlessly integrate **data labels** originating from an external column into your existing charts. This technique is particularly valuable when working with visualizations like the [scatter plot](#), ensuring that every data point is instantly identifiable, thereby enhancing the overall readability and interpretability of the graph.

Establishing the Data Foundation and Context

Before initiating the visualization process, it is essential to structure your dataset correctly within the [Excel](#) spreadsheet. The success of this labeling technique hinges on having the data points (X and Y variables) physically adjacent to the corresponding custom labels. Although Excel is flexible, maintaining a clean and organized data structure significantly reduces potential errors during the charting process.

For this specific demonstration, we will utilize a dataset containing performance metrics for basketball players. This dataset includes columns for the independent variable (Assists), the dependent variable (Points), and crucially, a separate column containing the specific labels (Player Names) we intend to associate with each plotted point. It is paramount that the rows align perfectly, ensuring that each player's name corresponds accurately to their numerical metrics.

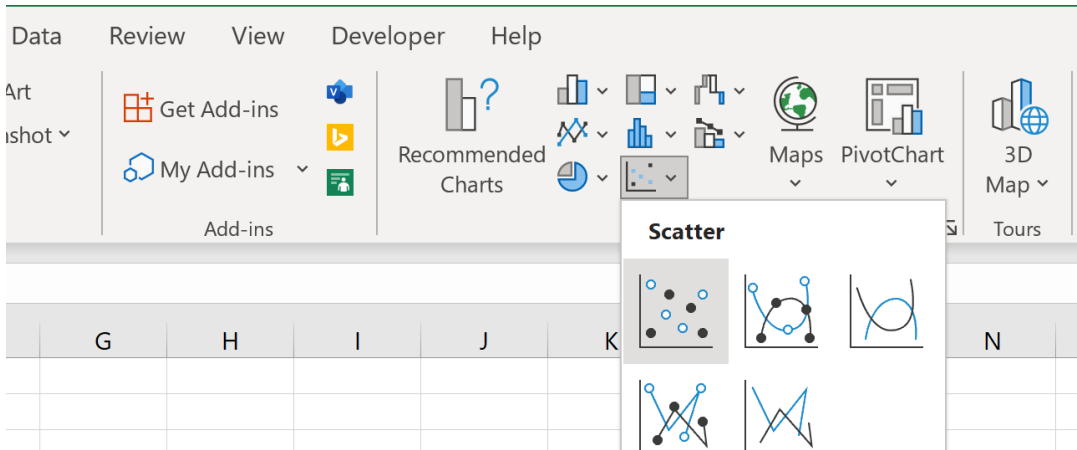
To begin, please input the following sample data into your [Excel](#) worksheet, paying close attention to the column headers and the designated data range. Note that the custom data labels we will eventually apply to the chart points are located in column F, distinct from the primary plotting data in columns A and B.

	A	B	C	D	E	F
1	Assists	Points				Player
2	4	13				Andy
3	5	25				Bob
4	5	22				Chad
5	9	35				Doug
6	12	30				Eric
7	6	12				Frank
8	8	10				Greg
9	8	15				Henry
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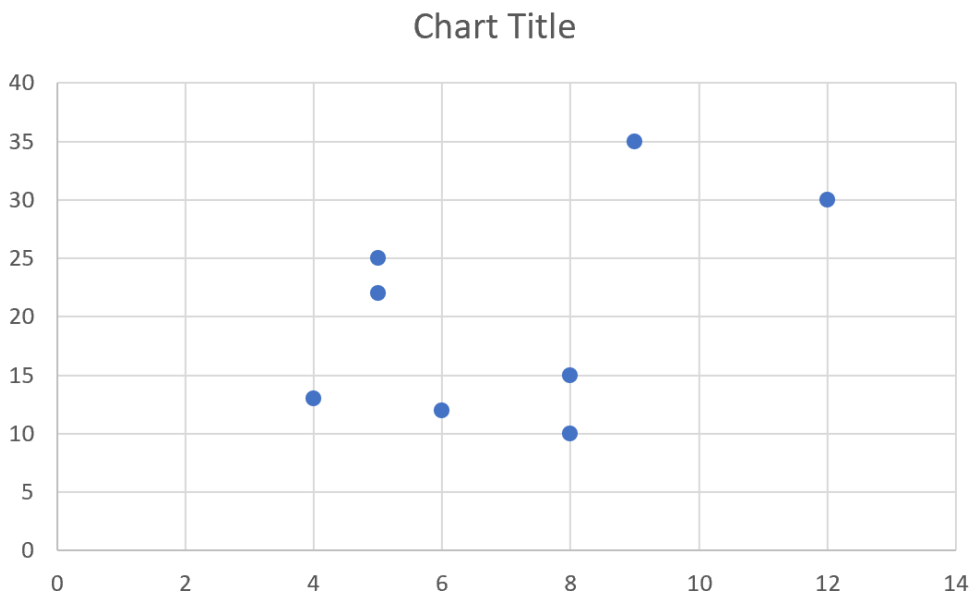
Generating the Initial Visualization (Scatter Plot)

Once the data is accurately entered, the next logical step involves creating the base visualization. Although this technique can be applied to various chart types, the **scatter plot** provides an excellent medium for illustrating point-specific labeling, as it plots individual data pairs based on two numerical variables. The initial chart setup will use only the primary numerical data columns, excluding the custom label column temporarily.

To create the chart, first, select the data range that contains the X and Y values--in this example, the range **A2:B9**, which includes the Assists and Points data. After selecting this range, navigate to the **Insert** tab located on the top ribbon of the [Excel](#) interface. Within the **Charts** group, select the **Scatter** chart option. This action instructs Excel to generate a basic scatter plot using the selected numerical pairs.



Upon selection, the visualization is automatically rendered. The horizontal axis (x-axis) will display the values corresponding to the **Assists**, while the vertical axis (y-axis) represents the **Points**. At this stage, it is crucial to observe that the default chart display does not include any identifying text or labels directly attached to the plotted circular markers; the points are currently represented only by their numerical coordinates.

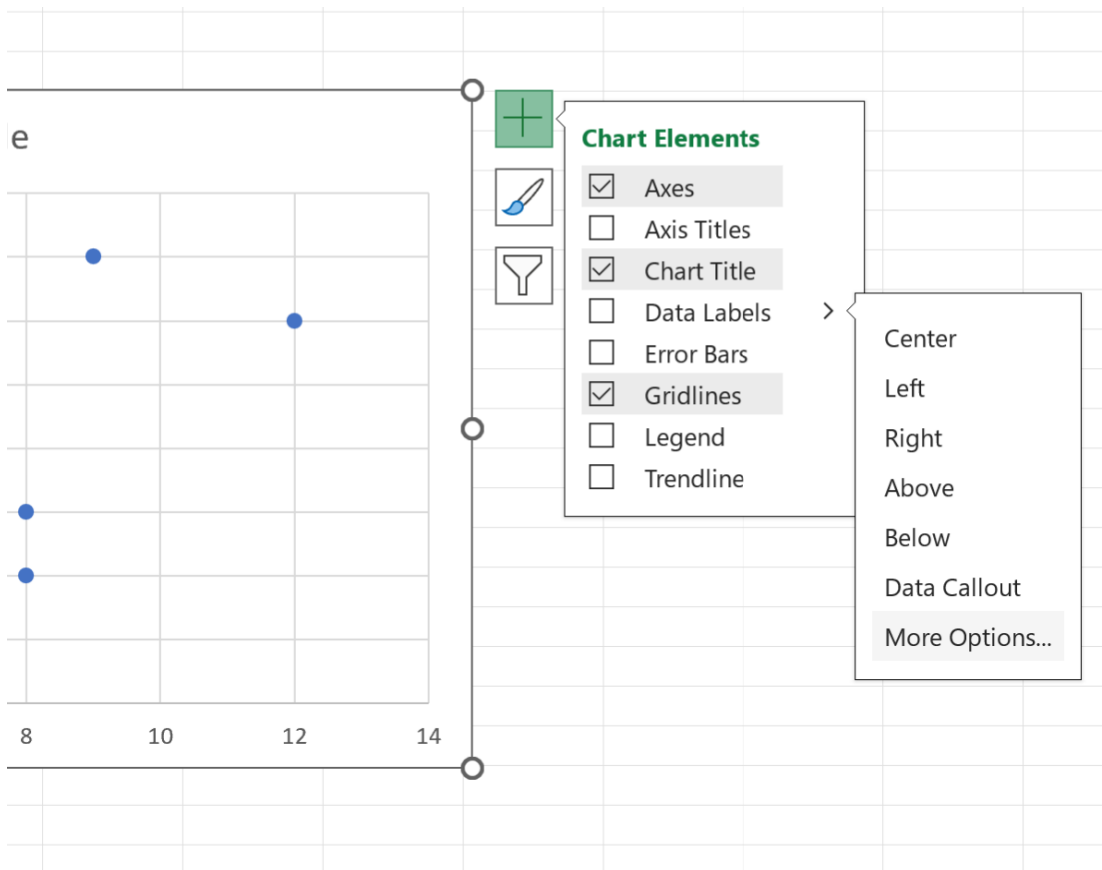


Implementing Custom Data Labels from a Separate Column

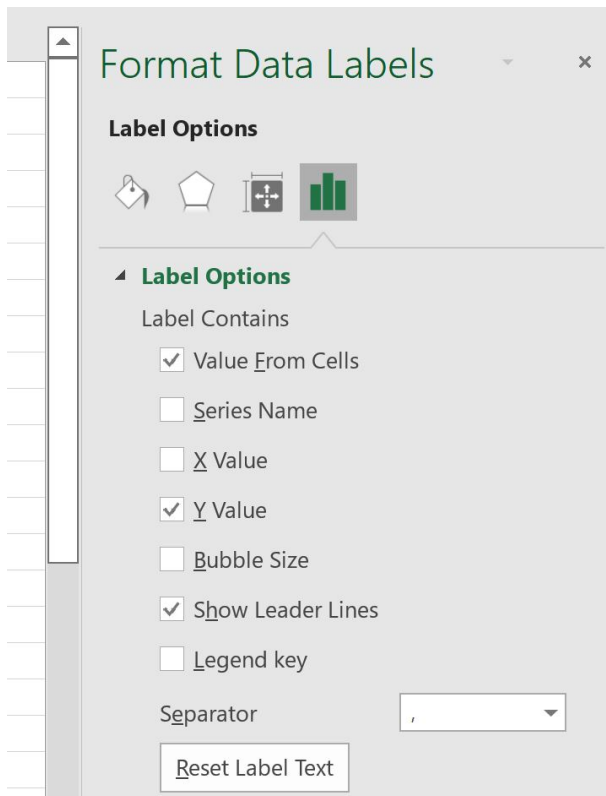
This stage constitutes the core objective of the tutorial: linking the external label data (Player Names in column F) to the plotted points. This functionality is managed through Excel's advanced [Microsoft Chart Tools](#) formatting options, specifically the feature known as "Value From Cells."

To initiate the labeling process, click anywhere on the generated chart to select it. A set of chart

elements controls will appear on the top right corner, including the green plus sign ("+"). Click this **Chart Elements** icon to reveal the customization menu. Hover over the **Data Labels** option, and then click the adjacent arrow to expand the submenu. From this dropdown list, select **More Options**. This action opens the detailed Format Data Labels pane, providing granular control over the label appearance and source.



Within the Format Data Labels pane that appears, locate and select the checkbox labeled **Value From Cells**. Clicking this option prompts a new dialog box titled "Data Label Range." This box requires you to specify the exact range in your worksheet that contains the desired custom labels. For our example, the labels are the player names, so the cell range to be selected is **F2:F9**. After confirming the range selection, click **OK** to establish the link between the plotted points and the external data source.

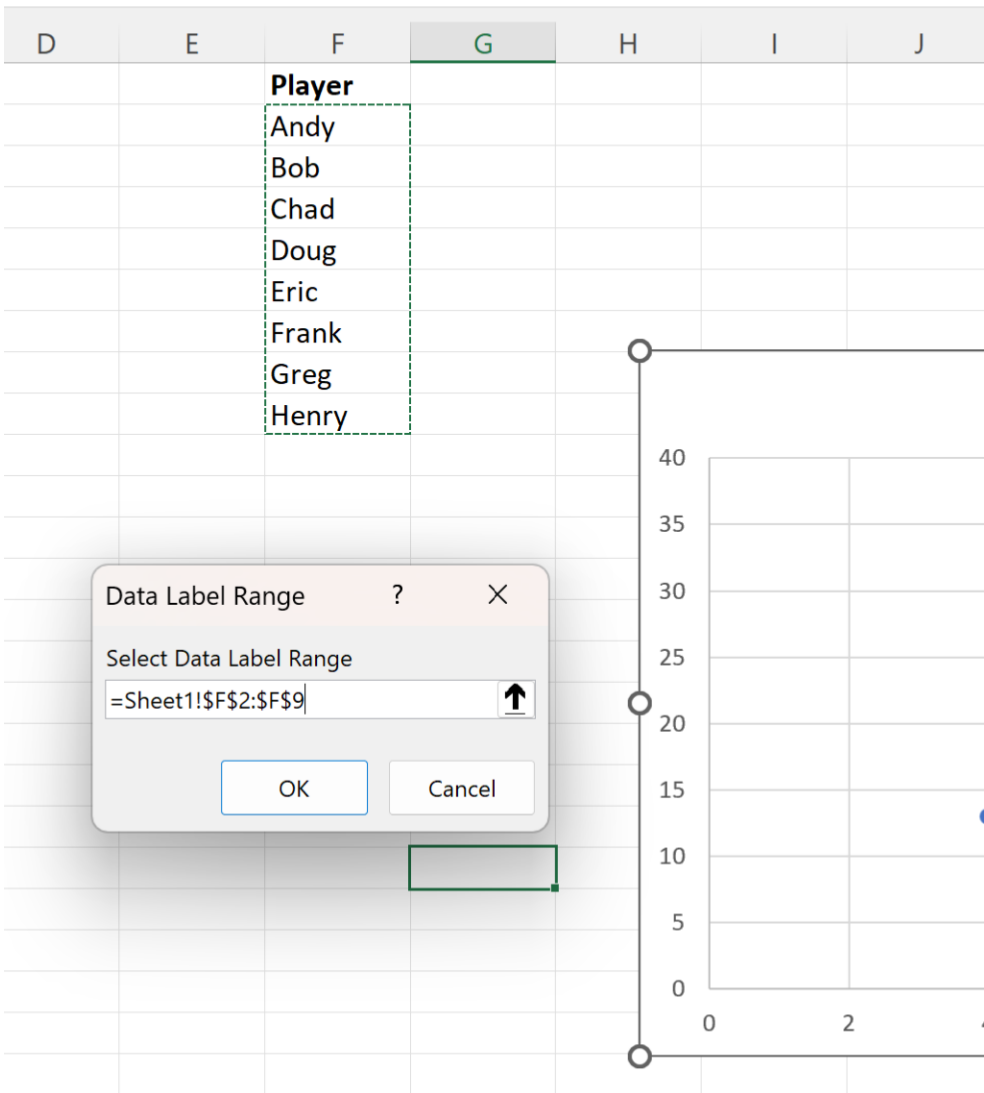


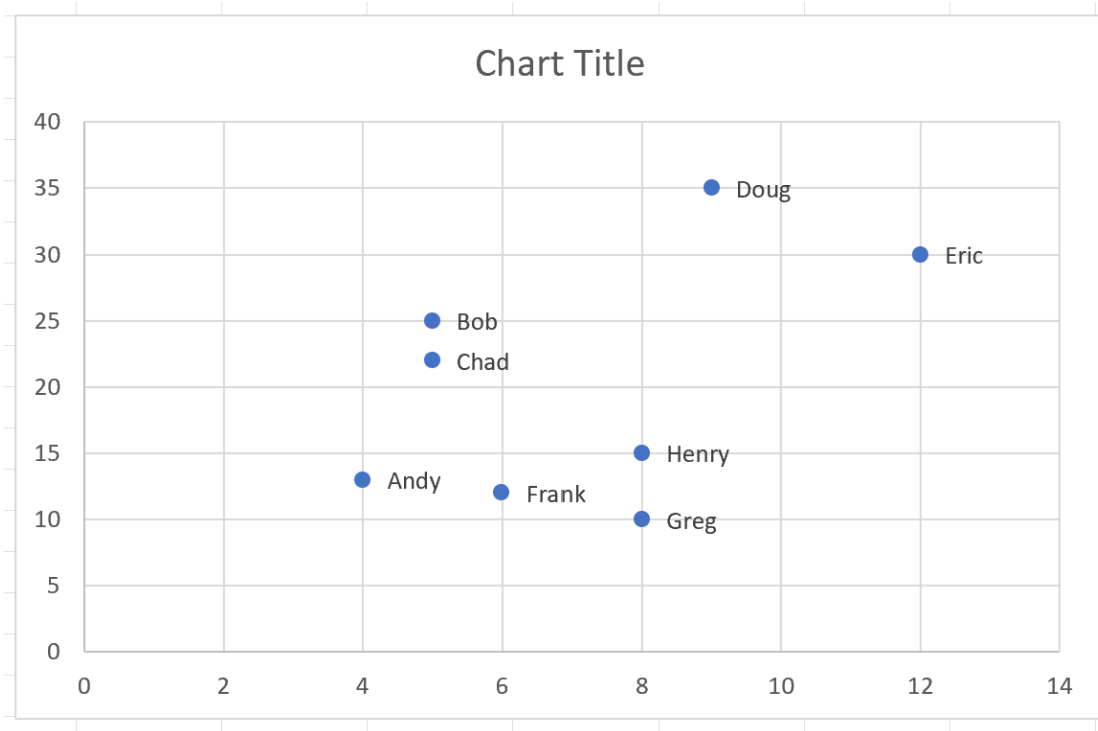
Refining Label Appearance and Final Output

While the previous step successfully linked the custom labels, Excel often defaults to displaying both the new custom label (Player Name) and one of the original numerical values (e.g., the Y Value) simultaneously. This redundancy usually results in a cluttered and less effective visualization. Therefore, a critical final adjustment is required to display only the desired custom labels.

Returning to the **Format Data Labels** panel on the right side of the screen, you must review the checked options under the Label Options tab. Since our primary goal is to display the player names, ensure that the **Value From Cells** box remains checked. However, to eliminate the redundant numerical display, uncheck the box next to **Y Value** (and optionally **X Value**, if it was also selected). This action isolates the custom label derived from column F.

The chart will instantly update, displaying the concise, descriptive labels directly adjacent to their corresponding points. This completion signifies that you have successfully integrated **data labels** from a separate column into the primary **scatter plot** visualization, significantly improving its analytical value.





Considerations for Advanced Data Labeling

Although this methodology is robust, advanced users should be aware of several considerations to maintain visualization integrity. Firstly, the "Value From Cells" feature is dynamically linked to the source data. If the text in cells F2:F9 is altered, the corresponding **data labels** on the chart will update automatically. This dynamic linkage is beneficial for handling evolving datasets.

Secondly, when applying this technique to charts with a large number of points, label overlap can become a significant issue, rendering the chart illegible. In such cases, consider using data filters to label only key points, or utilize Excel's formatting options to adjust the font size, color, or label position (e.g., moving labels below or to the side of the marker) to mitigate congestion. Effective use of custom **data labels** transforms a basic graphical representation into a sophisticated analytical tool.

Further Visualization Resources

Mastering custom [Microsoft Chart Tools](#) and labeling techniques opens the door to creating a variety of informative and professional charts in [Excel](#). We encourage readers to explore related tutorials to expand their data visualization repertoire. Understanding how to manage and manipulate these elements is crucial for anyone involved in reporting or statistical analysis.

The following tutorials explain how to create other common visualizations in Excel, leveraging

similar data preparation and formatting principles:

How to Create Dynamic Charts in Excel

Generating Bubble Charts with Custom Sizing

Understanding Trendlines and Regression Analysis in Excel Charts