

# From Data to Insights: Crafting Sankey Diagrams with Excel

Data visualization is a powerful tool for making sense of complex information and presenting it in a visually appealing and comprehensible manner. One such visualization technique that can be invaluable for illustrating the flow of data or resources is the Sankey diagram. In this article, we will explore how to [create Sankey diagrams using Excel](#), a widely available and user-friendly spreadsheet program.

## Understanding Sankey Diagrams

Sankey diagrams are a type of flow diagram that represent the flow of data, energy, materials, or resources between multiple entities or stages. They are often used in various fields, including energy management, process engineering, and finance, to visualize the distribution and transformation of quantities. A typical Sankey diagram consists of nodes (boxes) representing the entities or stages and arrows connecting them to indicate the flow direction and quantity.

## Preparing Your Data

Before you can create a Sankey diagram in Excel, you need to have your data organized properly. Typically, your data should be structured with three columns: a source, a target, and a value. The source and target columns should contain the entities or stages, while the value column should represent the quantity or flow between them.

## Building a Sankey Diagram in Excel

Now, let's dive into the step-by-step process of creating a Sankey diagram in Excel:

### **Step 1:** Open Excel and Prepare Your Data

Open Excel and create a new worksheet.

Organize your data in the format mentioned above, with a source, target, and value column.

### **Step 2:** Create a Stacked Bar Chart

Select the data you want to use for your Sankey diagram.

Go to the "Insert" tab and select "Bar Chart" from the Charts group.

Choose the "Stacked Bar" chart type.

**Step 3: Customize the Chart**

Right-click on the chart and select "Select Data."

In the "Select Data Source" dialog box, click "Add" to add data series.

In the "Edit Series" dialog box, specify the source and target data ranges.

For the "Series Name," you can leave it empty or provide a suitable label.

Click "OK" to close the dialog boxes.

**Step 4: Format the Chart**

Format the chart by adjusting colors, fonts, and other visual elements to make it more appealing and understandable.

You can add labels to the nodes and arrows to clarify the flow of data.

**Step 5: Fine-Tune and Analyze**

Fine-tune your Sankey diagram as needed to ensure it effectively communicates your data insights.

You can use Excel's features like data labels, legend, and titles to provide context and clarity.

## **Conclusion**

Creating Sankey diagrams in Excel can be a valuable skill for professionals across various domains. These diagrams enable you to transform complex data into insightful visualizations that can aid in decision-making, process optimization, and data communication.

By following the steps outlined in this article, you can craft Sankey diagrams that effectively convey the flow of data or resources, turning raw data into actionable insights. Experiment with different datasets and customize your diagrams to meet your specific needs, and you'll be well on your way to mastering this powerful data visualization technique.