

Tornado Chart

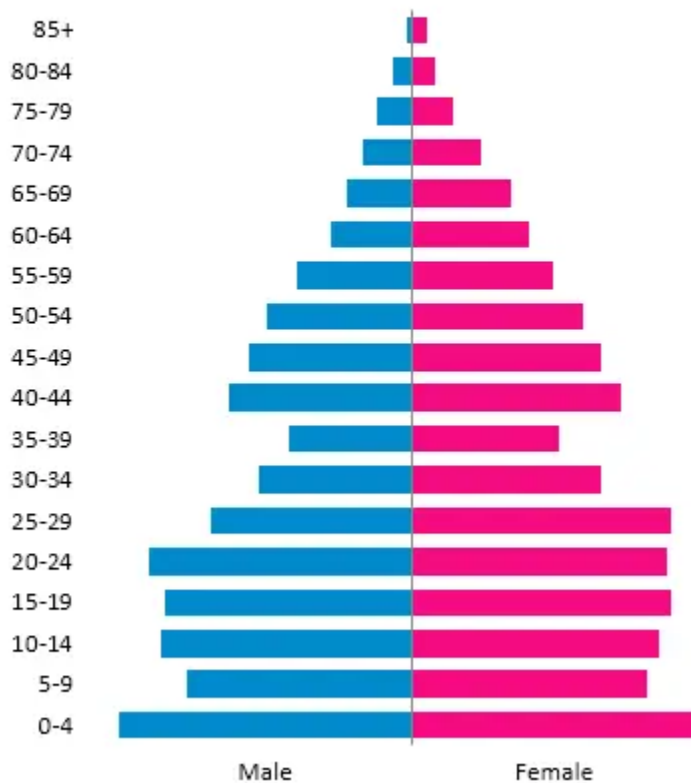
A **Tornado Chart** also called as Butterfly chart, is a special type of bar chart, often used **to represent two data series side by side**. In general, you may use it as an alternative to a regular bar chart or a stacked bar chart, whenever you're presenting two (or more) opposing data sets.

For example:-

Presenting a population pyramid with the Tornado chart has been a de-facto standard for years. Here's how the population in Slovenia looked like in 1953, by age and gender.

Population distribution in Slovenia, 1953

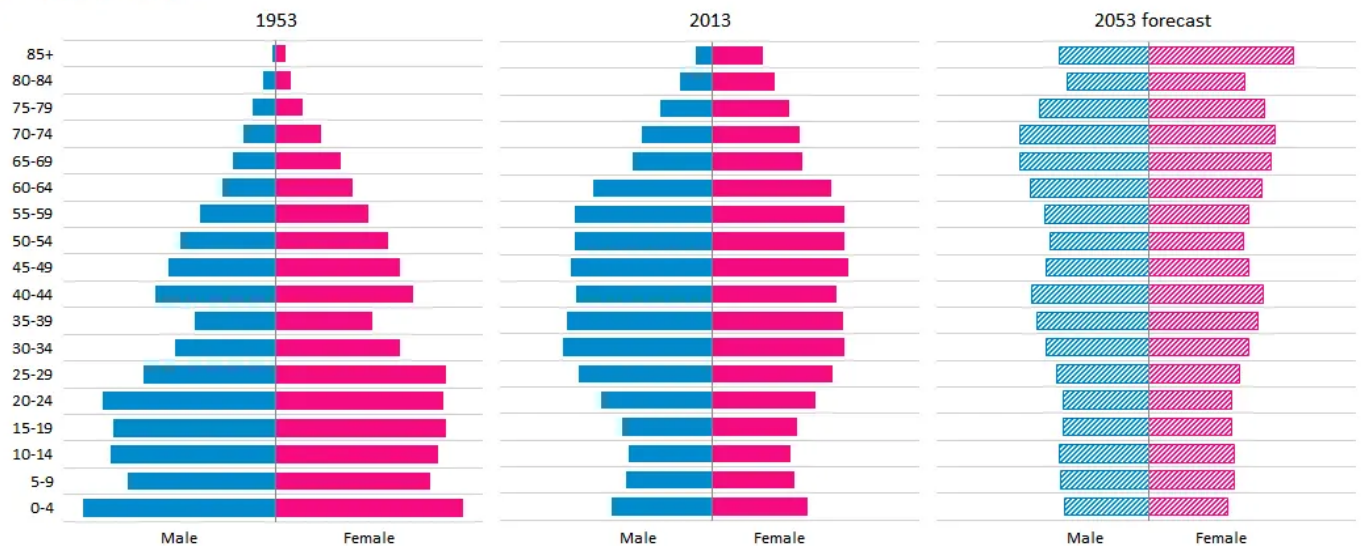
% of population by age



Well, that was way back in 1953 when the population structure in Slovenia still looked like a pyramid. However, we get the whole story by adding more recent data and a forecast for the future:

Population distribution in Slovenia, 1953, 2013, forecast for 2053

% of population by age



Due to rapid changes in the age structure of the population, the population "pyramid" in 2013 does not look like a pyramid anymore. In fact, the population will keep aging and by 2053 this chart will look more like a tornado. Hence, the *tornado* chart...

As you see, adding charts for multiple years helps gain a deeper understanding. That's why *small multiples* are one of the most efficient methods in data visualization. Less is not more, less is a bore. Less is less. More is more. Three multiples is better than just 1 single chart. But you know what's even better? *More* multiples!

Stepwise guide for Tornado Chart in Power BI:-

1.) Import the visual by clicking on the three dots in the visualizations section and get more visuals.

Get more visuals

Import a visual from a file

Remove a visual

Restore default visuals

2.)Select Tornado Chart.



Tornado chart

Microsoft Corporation

★★★★★ (0) [Write a review](#)

PBI Certified

Overview

[Ratings + reviews](#)

Add

Download Sample

[Sample Instructions](#)

Pricing
Free

Products
[Power BI visuals](#)

Publisher
Microsoft Corporation

Acquire Using
Work or school account

Version
2.1.0.0

Updated
3/11/2022

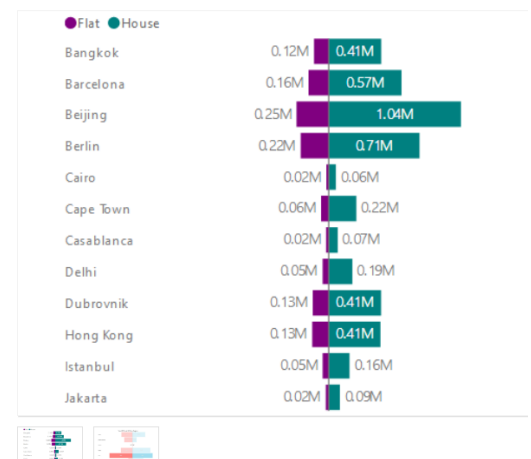
Support
[Support](#)

Comparing the relative importance of variables between two groups

Tornado charts, are a special type of Bar chart, where the data categories are listed vertically instead of the standard horizontal presentation, and the categories are ordered so that the largest bar appears at the top of the chart, the second largest appears second from the top, and so on. They are so named because the final chart visually resembles either one half of or a complete tornado. A tornado chart is a common tool used to depict the sensitivity of a result to changes in selected variables. It shows the effect on the output of varying each input variable at a time, keeping all the other input variables at their initial (nominal) values. Typically, you choose a "low" and a "high" value for each input. This is an open source visual. Get the code from GitHub: <https://github.com/Microsoft/PowerBI-visuals-tornado>

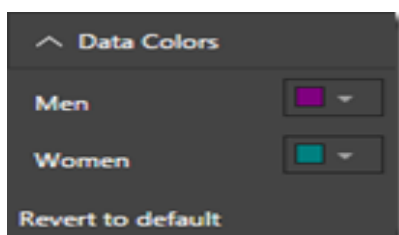
Visual capabilities

This visual is certified by Power BI
[Learn more about certified Power BI visuals.](#)

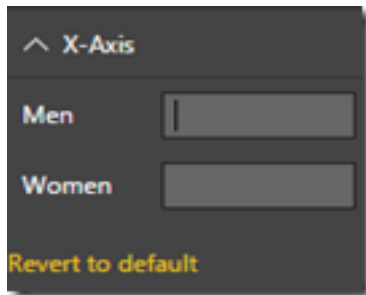


3.)Explore the Various options.

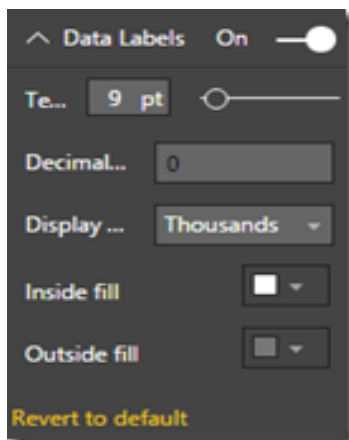
- Under the **Format** paintbrush, there are several options for customizing the appearance of the Tornado.
- From the **Data Colors** section, you can specify what color is used for each distinct value of the Legend.



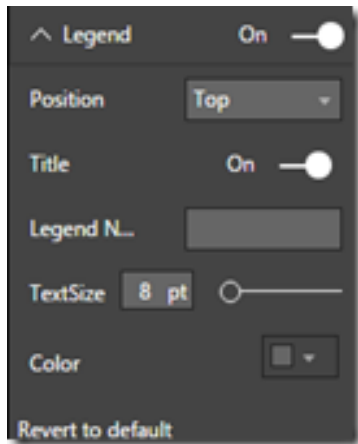
- By changing the values in the **X-Axis** section, you can manually adjust the scale used to display the values.



In the **Data Labels** section, you may find it useful to adjust the **Text Size**, **Decimal Places**, **Display Units**, **Inside fill** or **Outside fill**.



- The **Text Size** will adjust the value labels that are appearing inside the Tornado
- **Decimal Places** will allow you to adjust rounding of decimal points
- **Display Units** was actually changed for the sample image above to show in Thousands as opposed to the default, which usually shows in Millions.
- Using **Inside fill** will change the color of the value labels
- The **Legend** property allows you to adjust the Position, Title, Text size, Color, or Legend Name.



- Using the **Group** property, you can adjust the color of the group label text.

