



TORNADO DIAGRAM / BUTTERFLY CHART

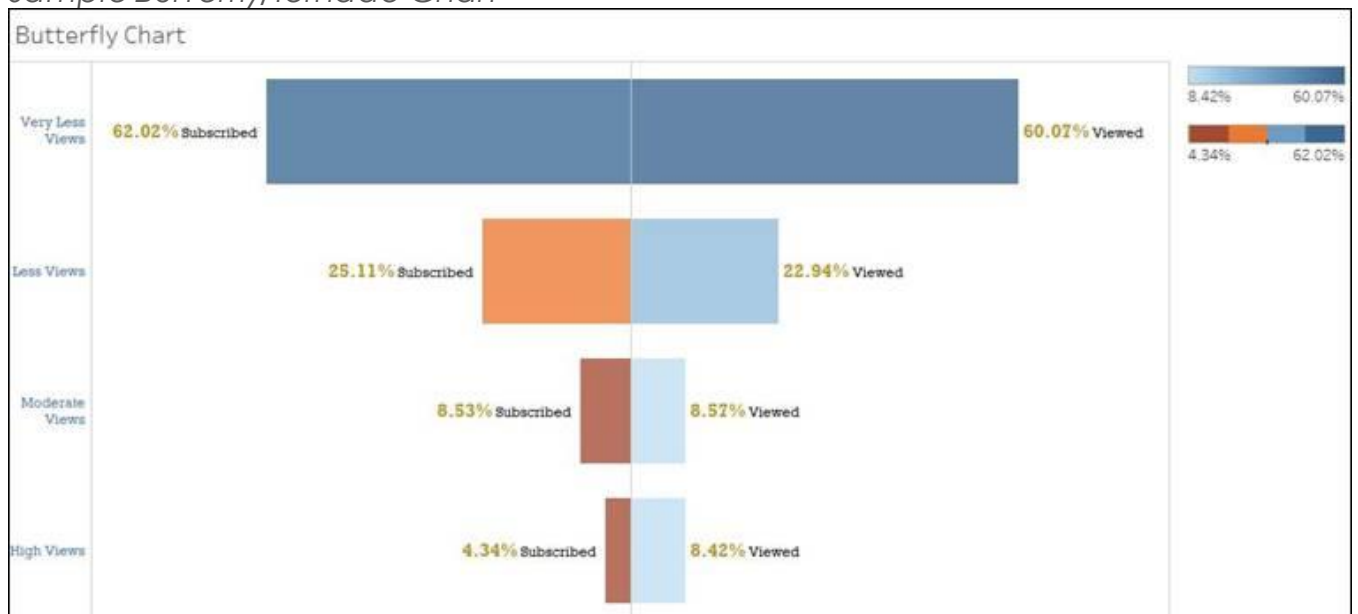
TORNADO DIAGRAM/BUTTERFLY CHART

Tornado diagrams, (also called tornado plots or tornado charts or butterfly charts), are a special type of Bar chart, where two bar charts are on either side of the same axis and data categories are listed vertically instead of the standard horizontal presentation. 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.

(Reference: https://en.wikipedia.org/wiki/Tornado_diagram)

Sample Butterfly/Tornado Chart



Applications:

- Deterministic sensitivity analysis – comparing the relative importance of variables
For example, if a decision maker needs to visually compare 100 budgetary items, and wishes to identify the ten items to focus on, it would be nearly impossible to do using a standard bar graph. In a tornado diagram of the budget items, the top ten bars would represent the items that contribute the most to the variability of the outcome, and therefore what the decision maker should focus on.
- Males and females among different age groups in the population
- Academic performance between children of low- and high-income families
- Sales in two different regions
- Comparing Yes/No results for a questionnaire

Sample 2: Butterfly/Tornado Chart

