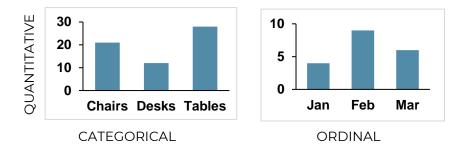
## A Guide to Bar, Line, & Pie Charts

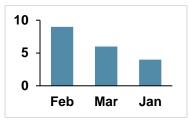
Data Types	
QUANTITATIVE:	numeric, can be measured, examples include 200 items, 6 miles, 24%
CATEGORICAL:	category or group of items, not numeric, do not have a natural order, for example chairs, tables, desks <i>or</i> cats, dogs, horses
ORDINAL:	have a natural order, such as months, quarters, years

## **Bar Charts**

Emphasize Volume, Size

Compare values to each other, using the height of the bars Both Categorical and Ordinal variables can be sorted or ranked





ORDINAL treated as CATEGORICAL and ranked

## Line Charts

**Emphasize Direction** 

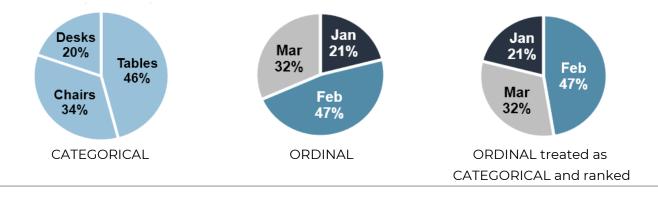
Show movement of QUANTITATIVE 80 Ordinal axis is always shown values over time 60 in its natural order and not One axis is 40 otherwise sorted or ranked Quantitative and 20 the other axis is 0 Ordinal 2019 2020 2021 2022 2023

ORDINAL

## **Pie Charts**

**Emphasize Percent of Total** 

Compare values in relation to the whole; values always sum to 100% Quantitative values are displayed as percentages of the circle (slices of the pie) Both Categorical and Ordinal variables can be sorted or ranked



Click here to watch this topic on YouTube

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