

⇒ Recap: Advanced Tableau Chart

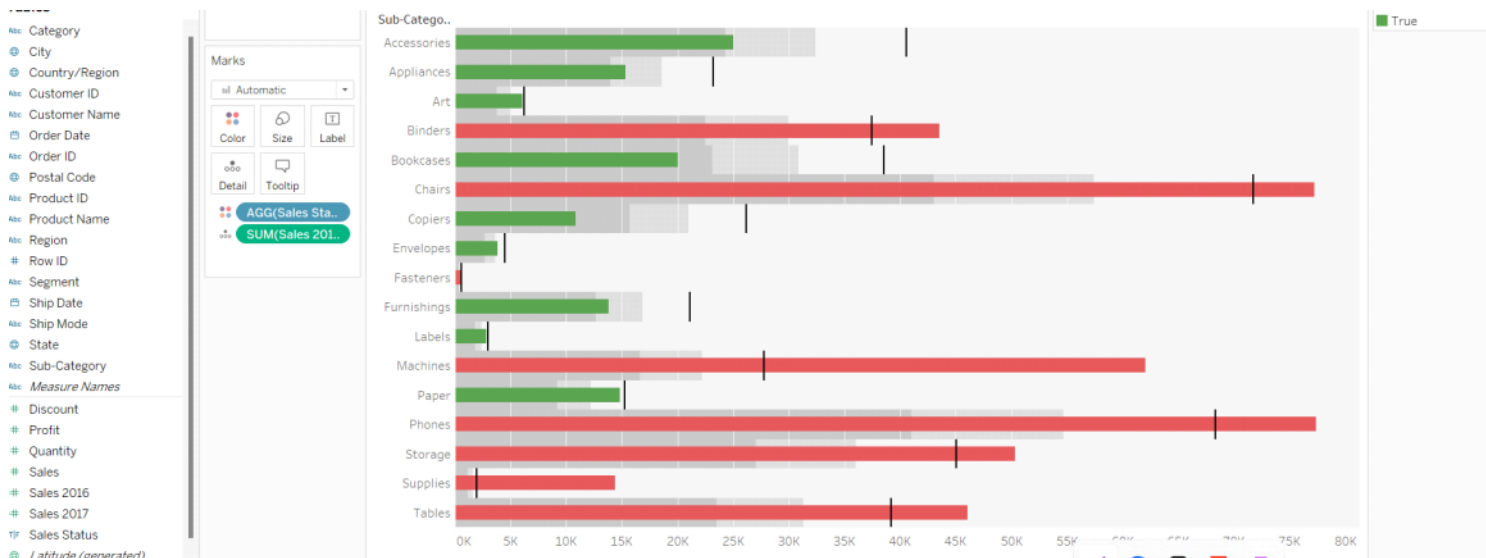
⇒

- Map Chart
- Bubble Chart
- Word Cloud
- Scatter Chart

{ Agenda:

- ✓ * Calculated field in Tableau
- ✓ * Outlier in EDA

Bullet chart and Calculated fields



Outliers

age 60, 70, 18, 90, 1000 ↓ extreme

-3 weights 30, 40, -90 → 10g

Mean :

60
 65
 40
1580
 ↑
Outliers

$$\text{Mean} \rightarrow \frac{60 + 65 + 40 + 55}{4} = 55 \text{ - mean}$$

$$\text{Mean} = \frac{60 + 65 + 40 + 580}{4} = 178.75$$

✓
✓

⚡ Outliers

⚡ mathematical

How to handle:
Percentile statistics

#Boxplot

Approach IQR

(25th)

(50th)

(75th)

Q_1

Q_2

Q_3



Min

$$Q_1 - 1.5 \times IQR$$

Max

$$Q_3 + 1.5 \times IQR$$

year 40 old
Min 30 kg
2015
Outliers =

Max
↓
200 kg
300
515
Outlier =

$$\begin{aligned}\text{Min} &= Q_1 - 1.5 * IQR \\ \text{max} &= Q_3 + 1.5 * IQR\end{aligned}$$

$Q_1 \rightarrow 25^{\text{th}}$ Percentile

$Q_3 \rightarrow 75^{\text{th}}$ Percentile

$$IQR = Q_3 - Q_1$$