Categorical

Each color represents a different category



Sequential

Color is ordered from **low** to **high**



TYPICAL USAGE OF COLOR IN DATA VISUALIZATION

Diverging

Sequential color presented in **opposite directions** from a **mid-point**



Highlight

Color draws **attention** to a **particular element** or elements



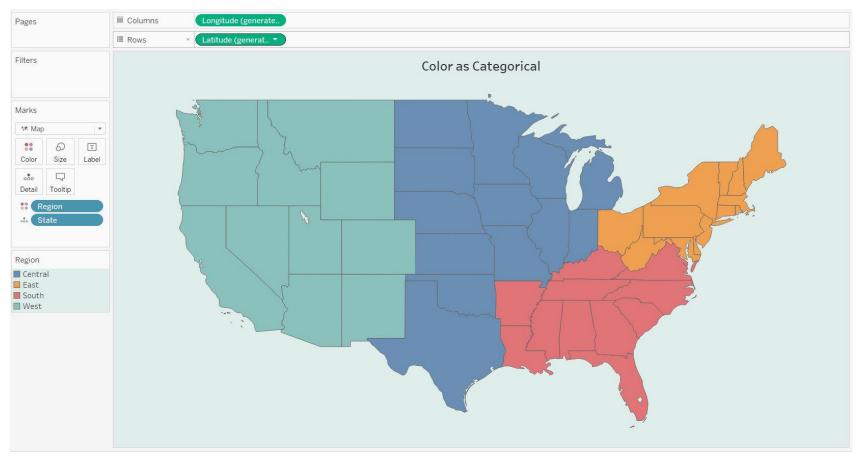
Alarm

Color alerts/ warns
the reader or end-user
of some anomaly



COLOR AS CATEGORICAL

Assume we have a Map with the below mentioned configuration **State** in **Detail** of **Marks** card **Region** in **Color** of **Marks** card



This results in each Region coded by **different colors**

Blue : Central Region

Orange: **East** Region

Red: **South** Region

Green: West Region

COLOR AS SEQUENTIAL

Assume we have a Map with the below mentioned configuration **State** in **Detail** of **Marks** card **Sales** in **Color** of **Marks** card



This results in different shades of the same color to reflect the Sales across the States

Darker blue: Higher sales

Lighter blue: Lower sales

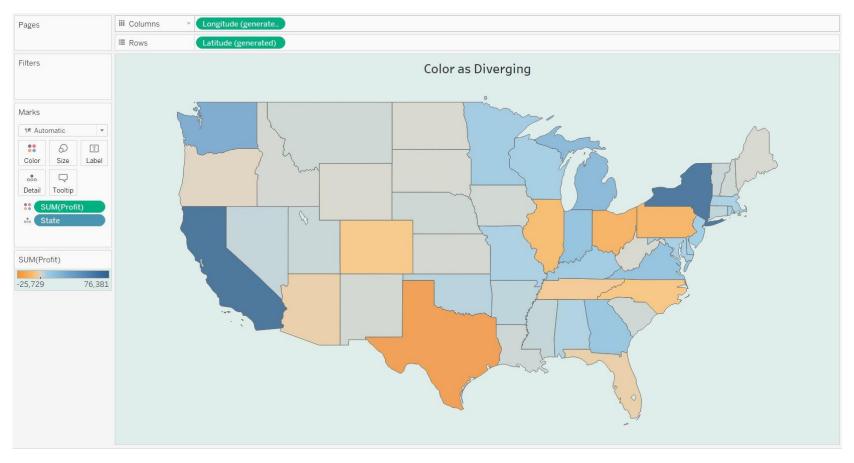
This can be confirmed with the Sales Color legend that shows the two extreme values
Sequential color works when we want to show low to high values using a continuous scale.

COLOR AS DIVERGING

Assume we have a Map with the below mentioned configuration

State in Detail of Marks card

Profit in Color of Marks card with "Orange-Blue Diverging" color palette

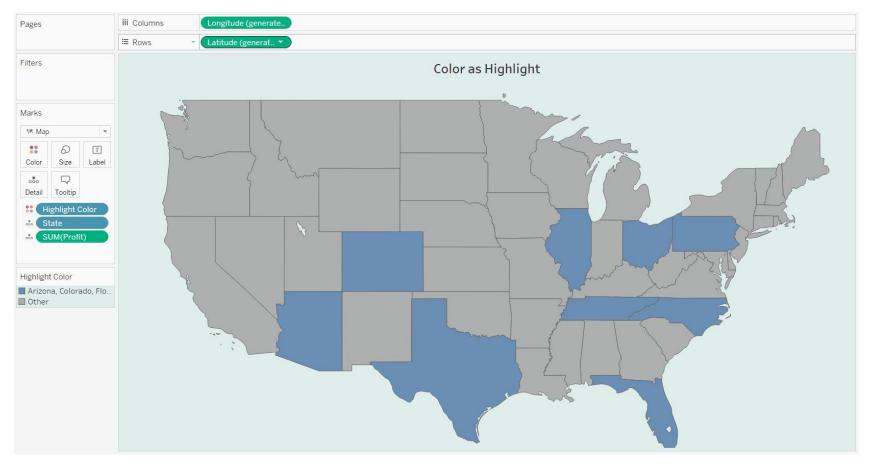


Blue colored states have higher Profits than the average profit
Orange colored states have lower Profits than the average profit

This can be confirmed with the Profit Color legend and note that the mid-point does not have to point to a zero value.

COLOR AS HIGHLIGHT

Highlight colors are a special case of Categorical color when we want to instantly **draw attention** to something that we want people to notice.



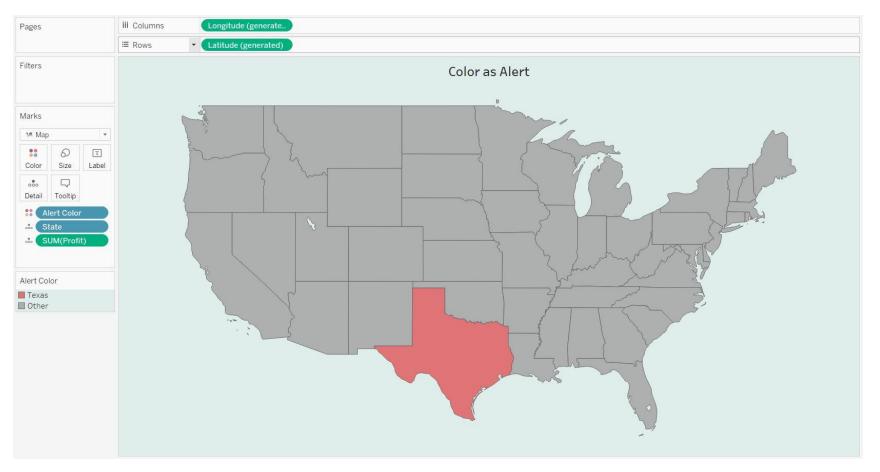
The map shows the

States with lesser profits
highlighted in blue color
We do this as we believe
that there is something
about these states that
might interest the
audience.

NOTE: The state segregation was achieved by creating groups

COLOR AS ALERT

Alert colors are a special case of Categorical color when we want to instantly **draw attention** to something that we want people to notice.



The map shows the **least** profitable state i.e., Texas is highlighted in Red color

NOTE: The state segregation was achieved by creating groups

COLOR AS ALERT

But we need to be careful when making use of colors especially red for alerting purpose.

In western culture we normally equate Green with something positive or good and Red with something negative or bad

Stock Market: Green is up; Red is down

Traffic lights: Green means go; Red means stop

But this is not universal as in many **Asian nations** the associations with **red and green are sometimes reversed**.

Sometimes organizations that have **red logos** tend to use **red to mean something good**.

PUTTING IT ALL TOGETHER

