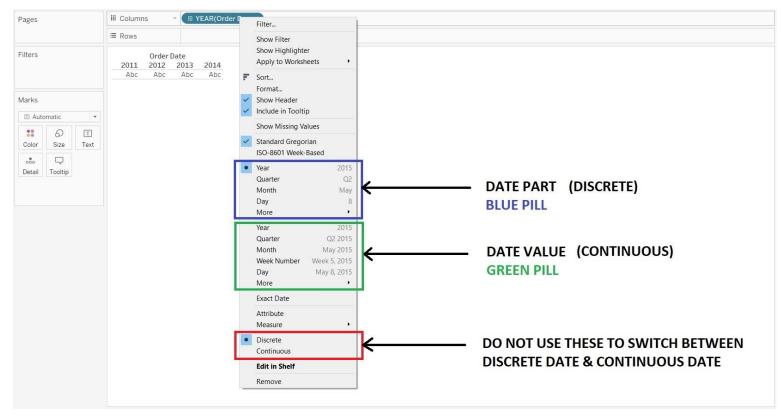
LOCATING DATE PARTS AND DATE VALUES



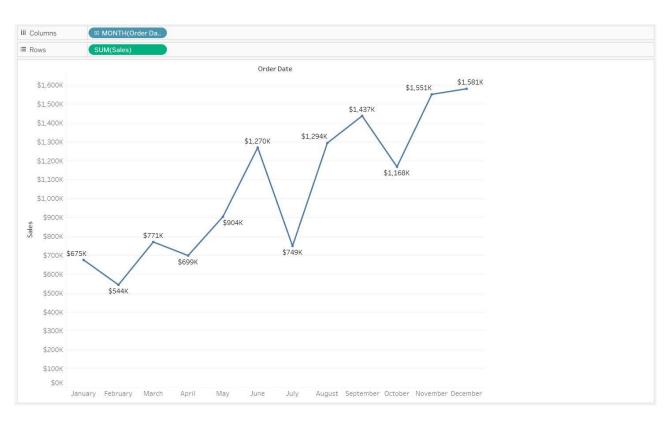
The top group of dates (shown inside blue box) is the **Date Part (Discrete)**, and this can be confirmed by the example data provided next to each option

e.g.: May for **Month**.

The bottom group of dates (shown inside green box) is the **Date Value (Continuous)**, and this can be confirmed by the example data provided next to each option e.g.: May 2015 for **Month**.

WARNING: DO NOT USE the Discrete and Continuous options (shown inside red box) at the bottom of this menu to switch back and forth between a discrete date and a continuous date. It does not provide the same functionality and will work differently.

BASICS OF DATE PARTS



Discrete dates use date parts.

Date parts are literally the parts or components that make up a date.

Consider the date of September 30, 2021.

The "Month" date part is September (or 09).

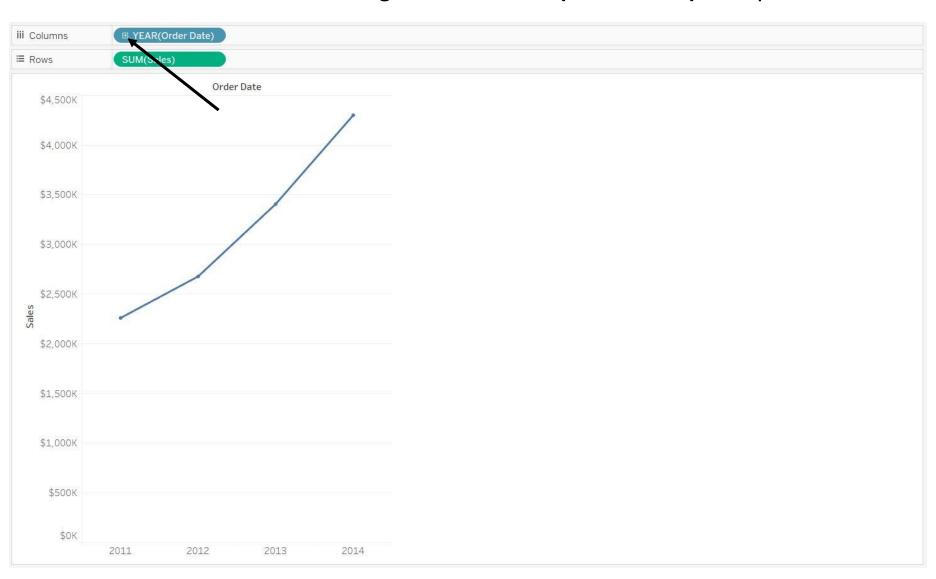
The "Day" date part is 30

The "Year" date part is 2021.

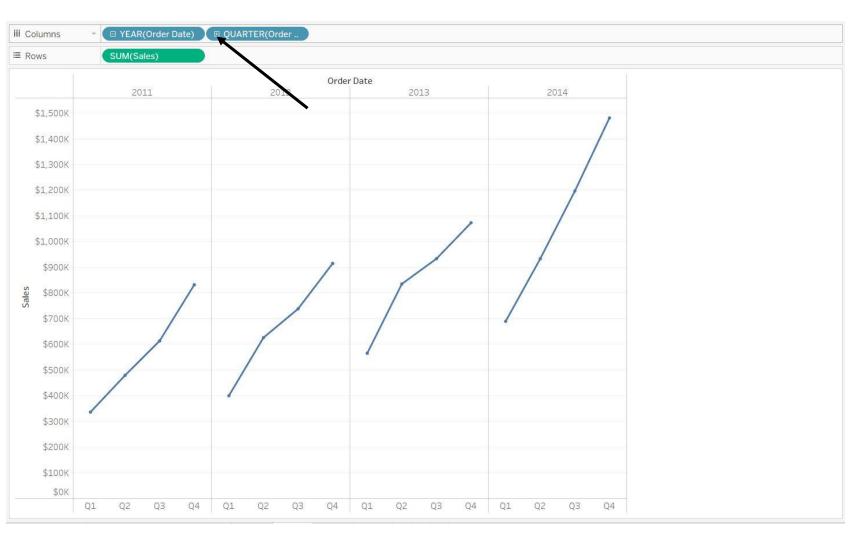
Consider that we make use of only one of these date parts in our Viz e.g.: Month, then we would be looking at an aggregated month values without considering the other data parts like Year, Quarter etc.

If the data set includes data from 2011 to 2014, then all those Januarys would be aggregated into that discrete column for January

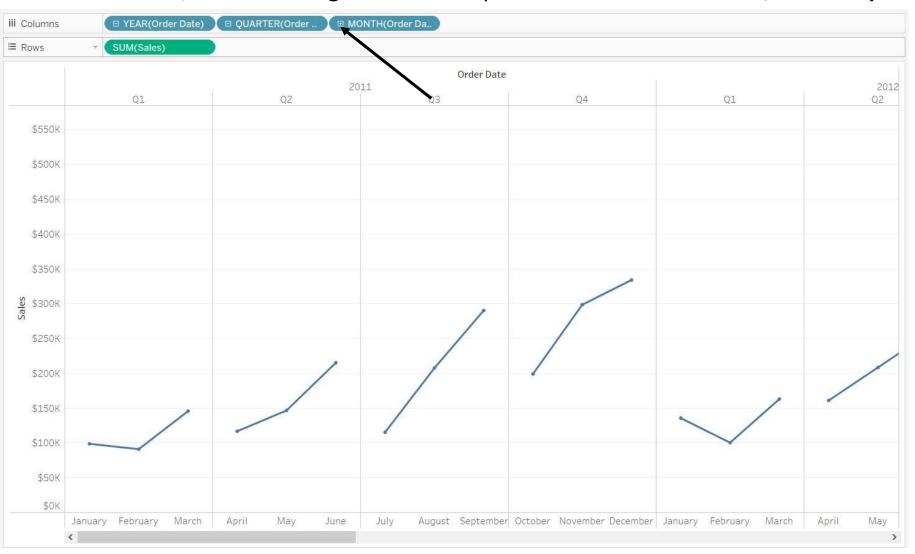
When we expand **Date Parts** hierarchy, we get multiple blue pills Click on the + icon on the right-side of **YEAR(Order Date)** blue pill



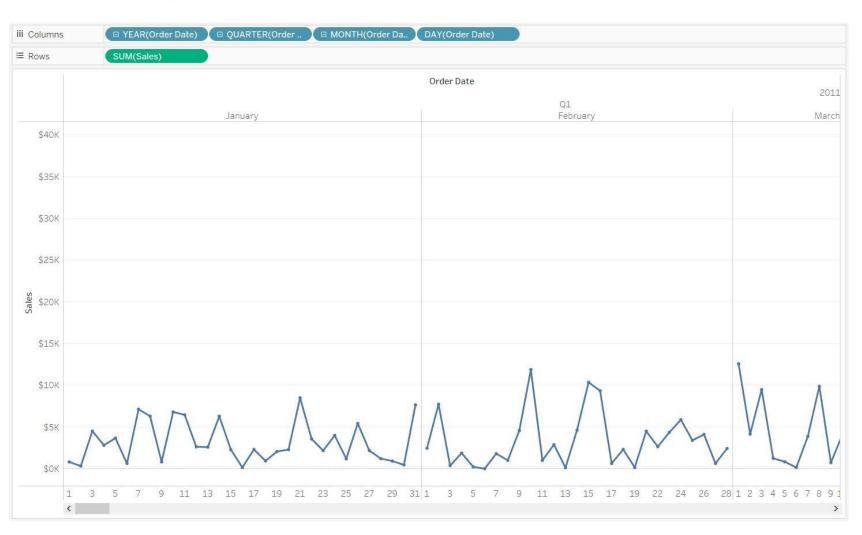
We see both YEAR(Order Date) and QUARTER(Order Date) blue pills Click on the + on the right-side of QUARTER(Order Date) blue pill NOTE: The label for YEAR(Order Date) moves UP and the label for QUARTER(Order Date) moves DOWN



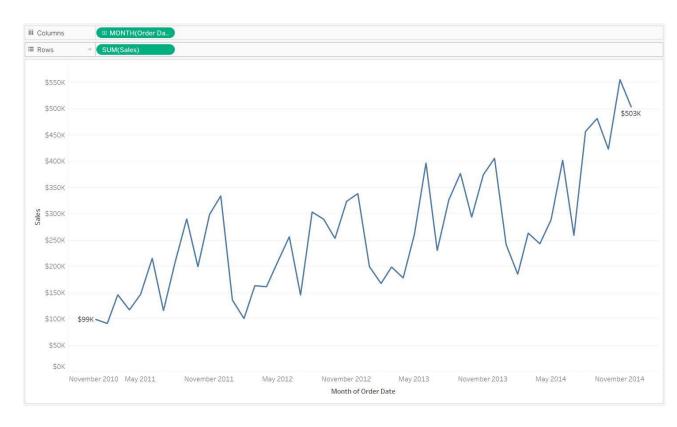
We see YEAR(Order Date), QUARTER(Order Date) & MONTH(Order Date) blue pills Click on the + on the right-side of MONTH(Order Date) blue pill NOTE: The label/header for right most blue pill alone moves down i.e., MONTH(Order Date)



We see YEAR(Order Date), QUARTER(Order Date), MONTH(Order Date) & DAY(Order Date) blue pills NOTE: The label for right most blue pill alone moves down i.e., DAY(Order Date)



BASICS OF DATE VALUES



Date values are used for continuous dates.

They follow the same structure of date parts (i.e., year, quarter, month, week, day and so on). The difference between date values and date parts is that date values imply a level of detail in a timeline (i.e., chronological order). Remember continuous fields do not create headers, they create an axis.

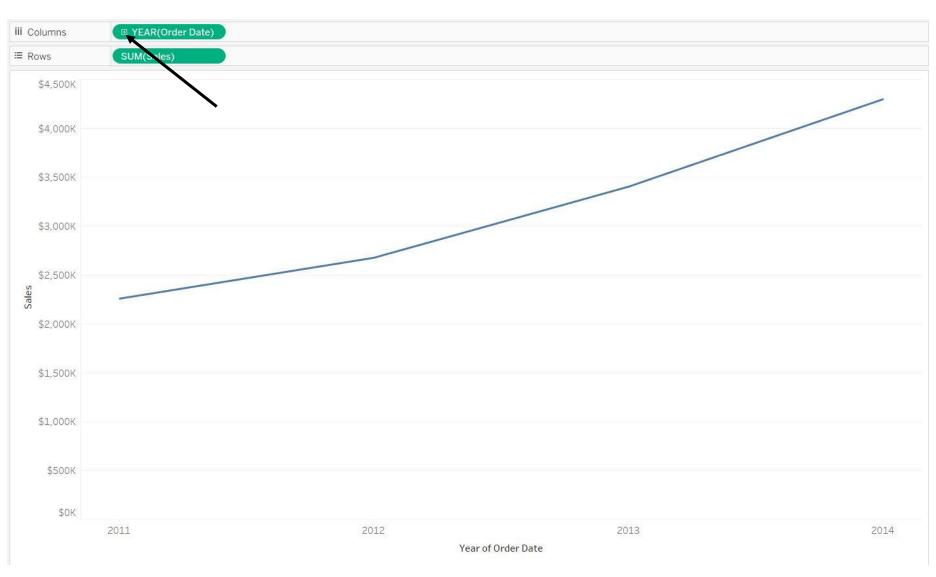
In the case of a continuous date, it creates a timeline. **Date values** determine how our timeline is organized

In the viz, notice that **Order Date** on Columns shelf is

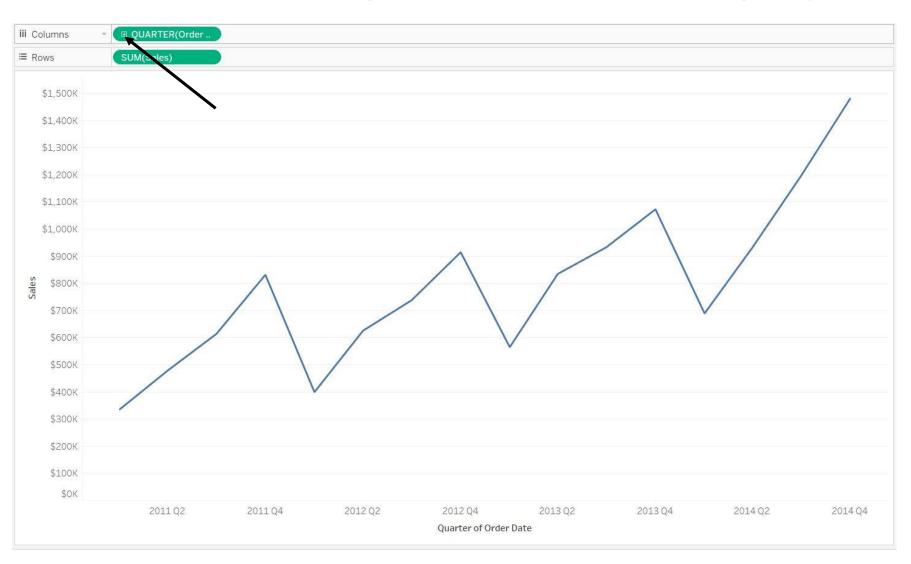
- 1) Green which denotes a continuous field and
- 2) Set to the date value of "Month."

That means in our view we are segregating our data down to the **date level** on our **timeline**. Rather than looking at all Januarys aggregated together, we are looking at a specific January such as January 2011 or January 2012.

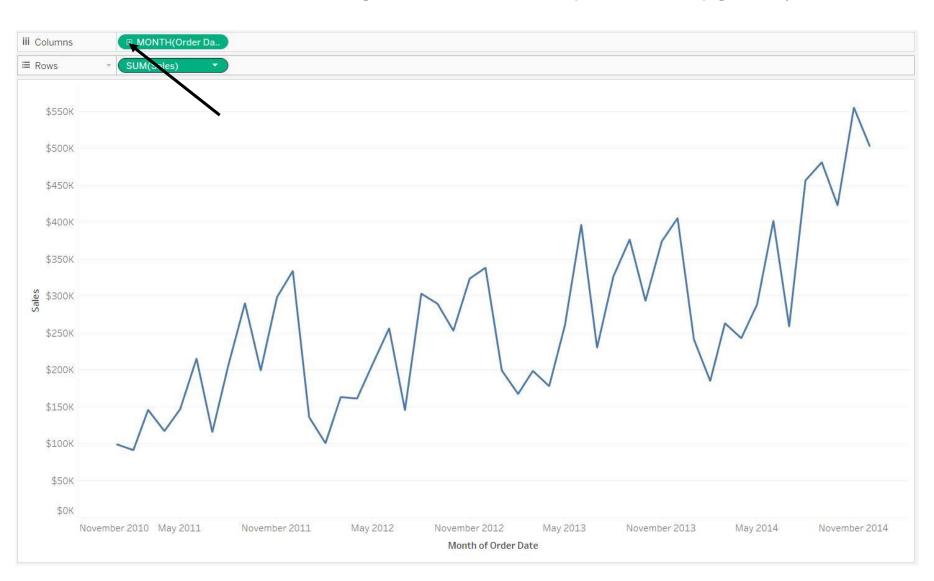
When we expand **Date Values** hierarchy, the existing pill is **transformed** to next level i.e., Quarter Click on the + icon on the right-side of **YEAR(Order Date)** green pill



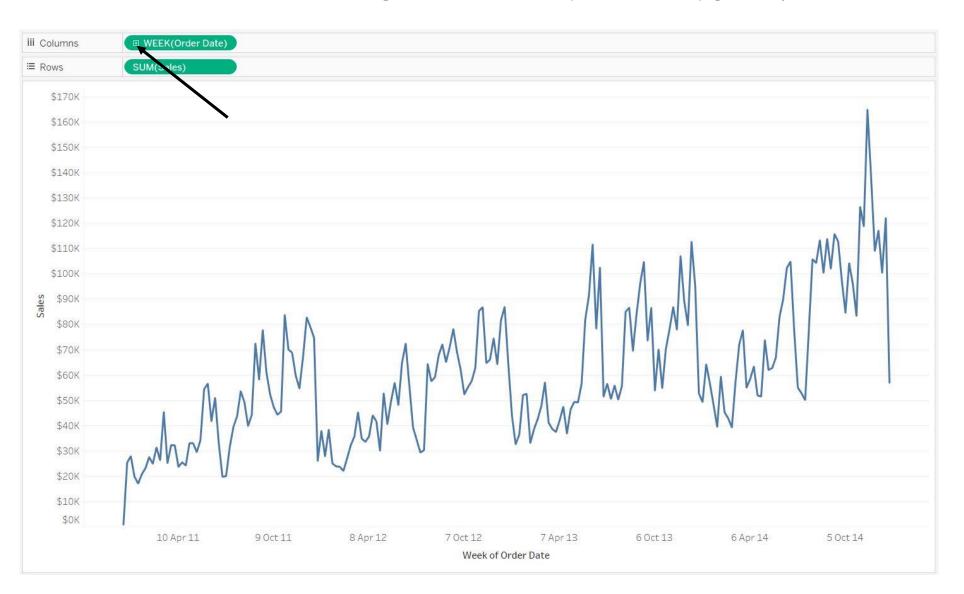
Now we see only **QUARTER(Order Date)** is present **NOTE:** Unlike **Date Parts** for **Date Values**, we do not have multiple pills Click on the + icon on the right-side of **QUARTER(Order Date)** green pill



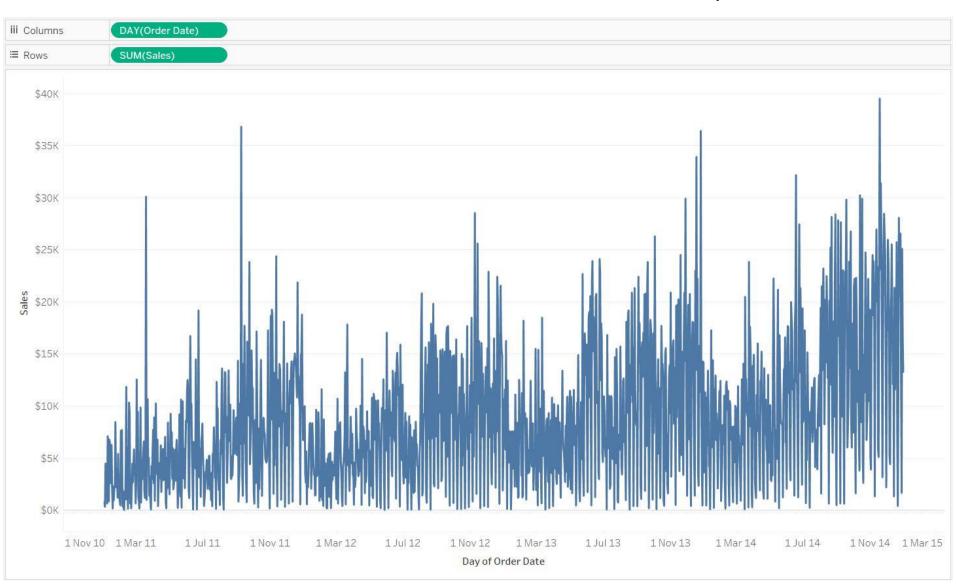
Now we see MONTH(Order Date) is present Click on the + icon on the right-side of MONTH(Order Date) green pill



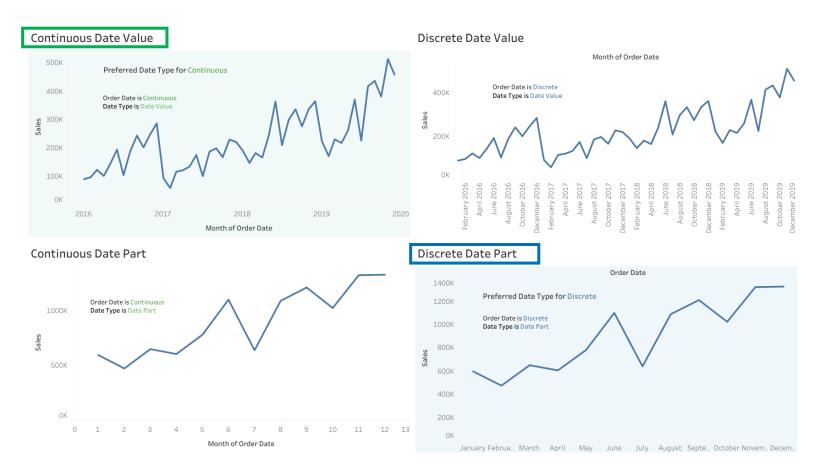
Now we see **WEEK(Order Date)** is present Click on the + icon on the right-side of **WEEK(Order Date)** green pill



Now we see **DAY(Order Date)** is present This is the lowest level in Date Value hierarchy



COMPARISON OF POSSIBLE OPTIONS FOR DATE PARTS AND DATE VALUES



The Viz gives a quick comparison and summary of all the possible options of using dates in our analysis.

Out of the 4 possible options given below are the usually preferred date types (i.e., Top Left and Bottom Right)
For Continuous it is Continuous Date Value
For Discrete it is Discrete Date Part

The usually less commonly preferred options are mentioned below:

Continuous Date Part

Discrete Date Value

NOTE: However, this may not be always true as there might be cases when we need to use Discrete Date Value or Continuous Date Part.