

The image depicts a radial column chart created in Tableau. Below is a step-by-step guide to recreating it:

1. Prepare Your Data

- Ensure your dataset includes at least the following columns:
 - **Year:** Represents the year for grouping the data.
 - **Sales or Measure Values:** The numerical data you want to visualize.
 - **Month or Category:** Represents months or categories for plotting on a radial axis.

2. Open Tableau and Load the Data

- Import the data into Tableau by clicking **Connect to Data**.
- Drag the necessary fields into the Data pane for processing.

3. Create Calculated Field

Field 1: Index

- Go to the **Analysis** tab and click **Create Calculated Field**.
- Name it something like Index.
- Use the formula: `INDEX() - 1`

Field 2: Convert Position to X-Axis (Horizontal Coordinates)

- Create another calculated field and name it X.
- Formula:

```
IF MAX([Position])=1 THEN  
    SIN(RADIANS([Index]*[TC_Step Size]))  
ELSE  
    SIN(RADIANS([Index]*[TC_Step Size]))*(1+[TC_Distance])  
END
```

Field 3: Convert Position to Y-Axis (Vertical Coordinates)

- Create another calculated field and name it Y.
- Formula:

```
IF MAX([Position])=1 THEN  
    COS(RADIANS([Index]*[TC_Step Size]))  
ELSE  
    COS(RADIANS([Index]*[TC_Step Size]))*(1+[TC_Distance])  
END
```

Field 4: Order Date (Year)

- Go to the **Analysis** tab and click **Create Calculated Field**.
- Name it something like Order Date (Year).

Use the formula: YEAR ([Order Date])

Field 5: TC_Distance

- Go to the **Analysis** tab and click **Create Calculated Field**.
- Name it something like TC_Distance.

Use the formula: [TC_Percentage]/WINDOW_MAX([TC_Percentage])

Field 6: TC_Percentage

- Go to the **Analysis** tab and click **Create Calculated Field**.
- Name it something like TC_Percentage.

Use the formula: [TC_Sales]/[TC_Total Sales]

Field 7: TC_Sales

- Go to the **Analysis** tab and click **Create Calculated Field**.
- Name it something like TC_Sales.

Use the formula: WINDOW_SUM(SUM([Sales]))

Field 7: TC_Step Size

- Go to the **Analysis** tab and click **Create Calculated Field**.
- Name it something like TC_Step Size.

Use the formula: (360-(360/WINDOW_MAX([Index])))/WINDOW_MAX([Index])

Field 8: TC_Total Sales

- Go to the **Analysis** tab and click **Create Calculated Field**.
- Name it something like TC_Total Sales.

Use the formula: WINDOW_SUM(SUM([Sales]))

Field 9: TC_Year

- Go to the **Analysis** tab and click **Create Calculated Field**.
- Name it something like TC_Year.

Use the formula: WINDOW_MAX(MAX([Order Date (Year)]))

Field 10: Order Date (Month)

- Go to the **Analysis** tab and click **Create Calculated Field**.
- Name it something like Order Date (Month).

Use the formula: DATETRUNC("month",[Order Date])

Field 11: Position

- Go to the **Analysis** tab and click **Create Calculated Field**.
- Name it something like Position.

Use the formula: IIF([Ship Mode]="First Class",1,2)

4. Build the Chart

- Drag **X** to **Columns** and **Y** to **Rows**.
- Select **Line** from the **Marks** dropdown menu.
- Add the following details in the **Marks** card:
 - **Color:** Drag **Year** to the color shelf for different year hues.
 - **Path:** Drag **Position** to the **Path** shelf to form a radial structure.
 - **Size (Optional):** Adjust size to differentiate between years.

5. Format the Chart

- Adjust the **Axes**:
 - Right-click on the axes and hide them (for a cleaner radial look).
- Clean up **Gridlines**:
 - Go to **Format > Lines** and remove gridlines.
- Add Labels:
 - Add **Order Date (Month)** to the **Label** shelf for month names (optional).

