

## We are currently supporting the following charts:-

- 1.Area Chart
- 2.Bar Chart
- 3.Bubble Chart
- 4.Column Chart
- 5.Funnel Chart

In the future, we will be supporting additional charts.

## Area Chart Docs

An Area Chart displays quantitative data graphically by plotting points and connecting them with a line, filling the area beneath the line. It is useful for showing trends over time or across categories, with the filled area emphasizing the magnitude of change.

Sample HTML code to create an area chart:

```
<fico-area-chart [height]="400" [title]="chart.title"  
[data]="charts.data"></fico-area-chart>
```

| Property                       | Description   |
|--------------------------------|---|
| title: string                  | Title of the chart.   |
| subTitle: string               | Subtitle of the chart.  |
| height: number                 | Height of the chart in px. Default: 400px.  |
| legendConfig: FicoLegendConfig | Legend configuration for the chart.   |
| showToolbar: boolean           | Sets the visibility of chart toolbar. The toolbar is displayed in top right section of the chart. |
| data: Series   Series[]        | The data required for the chart.  |
| showXAxis: boolean             | Enable/disable the x-axis. Default: true.   |
| axis: FicoAxisConfig           | Axis configuration for the area chart.  |

|   |   |
|---|---|
| tooltip: FicoTooltipConfig                | Tooltip configuration for the area chart. |
| highlightConfig: FicoLineChartHighlight[] | Highlight configuration for the chart.    |

## Interfaces

### *Series*

| Property                 | Description                                       |
|--------------------------|---|
| seriesName: string       | Name of the series.                               |
| dataPoints: DataPoints[] | collection of data points used to plot the chart. |
| stack: string            | stack name to show the data as a part of.         |

### DataPoints

| Property                       | Description              |
|--------------------------------|--------------------------|
| xPoint: number   string   Date | Value on the xAxis.      |
| yPoint: number                 | Value on the yAxis.      |
| name: string                   | Name of the data point.  |
| color: string                  | Color of the data point. |

### FicoTooltipConfig

| Property   | Description  |
|--|--|
| show: boolean                                      | Show/hide the tooltip. Default: true   |
| showSeriesName: boolean                            | Show/hide the series name in tooltip. Default: true  |
| showDataName: boolean                              | Show/hide the data name in tooltip. Default: true  |
| dataValueFormat: 'default'   'percent'   'decimal' | Determines how the data value displayed in tooltip is formatted. A stacked area charts. Default: 'default' |

|  |   |
|--|---|
|  | <p><b>default:</b> Uses original value.</p> <p><b>percent:</b> Formats the values as percentage.</p> <p><b>decimal:</b> Formats the values to a decimal representation.</p> |
|--|---|

## FicoAxisConfig

| Property               | Description                         |
|------------------------|-------------------------------------|
| xAxis: FicoXAxisConfig | X-axis configuration for the chart. |
| yAxis: FicoYAxisConfig | Y-axis configuration for the chart. |

## FicoXAxisConfig

| Property   | Description   |
|--|---|
| xAxisName: string  | Name of the x-axis.   |
| showXAxis: boolean   | Should the axis be shown or hidden. Default: true   |
| xAxisNameLocation: "start"   "middle"   "end"                      | Location of the name of the axis. Default: "middle"   |
| xAxisNameGap: number   | Space between the x axis & name. This is required else the name of the x-axis will overlap with the xAxis line. Default: 30 |
| xAxisNameColor: string   | Color of the name which defines the x-axis.   |
| xAxisPosition: "top"   "bottom"                                    | Position of the x-axis, either on the top of the chart or at the bottom of the chart. Default: "bottom"                     |
| xAxisFontStyle: "normal"   "italic"   "oblique"                    | Font style of the x axis. Default: "normal"   |
| xAxisFontWeight: 'normal'   'bold'   'bolder'   'lighter'   number | CSS font-weight of the a-axis. Default: "normal"  |
| xAxisFontSize: number  | The font size of the x-axis. Default: 18  |
| xAxisLineColor: string   | Color of the x-axis line.   |

|                         |   |
|-------------------------|---|
| xAxisNameRotate: number | Rotate the name of the x-axis. Value from -90 to +90. |
|-------------------------|---|

### FicoYAxisConfig

| Property   | Description  |
|--|--|
| showYAxis: boolean   | Should the axis should be shown or hidden. Default: true   |
| yAxisNameLocation: “start”   “middle”   “end”                      | Location of the name of the axis. Default: “middle”  |
| yAxisNameGap: number   | Space between the y-axis & name. This is required else the name of the axis will be overlapped with the y-axis line. Default: 30 |
| yAxisNameColor: string   | Color of the name that defines the y-axis.   |
| yAxisPosition: “left”   “right”                                    | Position of the y-axis, either on the top of the chart or at the bottom of the chart. Default: bottom                            |
| yAxisFontStyle: “normal”   “italic”   “oblique”                    | Font style of the y axis. Default: normal  |
| yAxisFontWeight: 'normal'   'bold'   'bolder'   'lighter'   number | CSS font-weight of the y-axis. Default: normal   |
| yAxisFontSize: number  | The font size of the x-axis. Default: 18   |
| yAxisLineColor: string   | Color of the y-axis line.  |
| yAxisNameRotate: number  | Rotate the name of the y-axis. Value from -90 to +90.  |

### FicoLineChartHighlight

| Property                                | Description  |
|---|--|
| name: string                            | name of the highlight condition.                         |
| description: string                     | description to show in the highlight legend tooltip.     |
| color: string                           | It will be used to highlight the series which satisfies  |
| condition1: 'GT'   'LT'   'GTE'   'LTE' | operator used to define interval for highlight condition |
| condition2: 'GT'   'LT'   'GTE'   'LTE' | operator used to define interval for highlight condition |

| Property  | Description   |
|---|---|
| showHighlightCondition: boolean   | show/hide the chart condition                           |
| showSeriesName: boolean   | show/hide the chart series leg                          |
| legendPosition: 'none'   'top'   'left'   'right'   'bottom'   'bottomLeft'   'bottomRight' | Sets the position of the chart others. Default: bottom. |

## Bar Chart Docs

A Bar chart is a graphical representation of data where individual categories are displayed as rectangular bars. The length (or height) of each bar is proportional to the value it represents. Bar charts are used to compare quantities across different categories and are commonly used in business, education, and data analysis. Variations include grouped bar charts for comparing multiple datasets and stacked bar charts for visualizing part-to-whole relationships.

Sample HTML code to create an Bar chart:

```
<fico-bar-chart [height]="500" [title]="chart.title" [data]="chart.data"></fico-bar-chart>
```

| Property                       | Description  |
|--------------------------------|--|
| title: string                  | Title of the chart.  |
| subTitle: string               | Subtitle of the chart.   |
| height: number                 | Height of the chart in px. Default: 400px.                     |
| legendConfig: FicoLegendConfig | Legend configuration for the chart.                            |
| showToolbar: boolean           | Sets the visibility of chart toolbar. The toolbar is displayed |
| data: Series   Series[]        | The data required for the chart.                               |
| axis: FicoAxisConfig           | Axis configuration for the chart.                              |
| tooltip: FicoTooltipConfig     | Tooltip configuration for the chart.                           |

|                                       |  |
|---------------------------------------|--|
| highlightConfig: FicoChartHighlight[] | Highlight configuration for the chart. |
|---------------------------------------|--|

Interface

Series

| Property                 | Description                                       |
|--------------------------|---|
| seriesName: string       | Name of the series.                               |
| dataPoints: DataPoints[] | collection of data points used to plot the chart. |
| stack: string            | stack name to show the data as a part of.         |

DataPoints

| Property                       | Description              |
|--------------------------------|--------------------------|
| xPoint: number   string   Date | Value on the xAxis.      |
| yPoint: number                 | Value on the yAxis.      |
| name: string                   | Name of the data point.  |
| color: string                  | Color of the data point. |

FicoTooltipConfig

| Property   | Description   |
|--|---|
| show: boolean                                      | Show/hide the tooltip. Default: true  |
| showSeriesName: boolean                            | Show/hide the series name in tooltip. Default: true   |
| showDataName: boolean                              | Show/hide the data name in tooltip. Default: true   |
| dataValueFormat: 'default'   'percent'   'decimal' | Determines how the data value displayed in tooltip.<br><b>default:</b> Uses original value.<br><b>percent:</b> Formats the values as percentage.<br><b>decimal:</b> Formats the values to a decimal representation. |

## FicoAxisConfig

| Property               | Description                         |
|------------------------|-------------------------------------|
| xAxis: FicoXAxisConfig | X-axis configuration for the chart. |
| yAxis: FicoYAxisConfig | Y-axis configuration for the chart. |

## FicoXAxisConfig

| Property   | Description   |
|--|---|
| xAxisName: string  | Name of the x-axis.   |
| showXAxis: boolean   | Should the axis be shown or hidden. Default: true   |
| xAxisNameLocation: "start"   "middle"   "end"                      | Location of the name of the axis. Default: "middle"   |
| xAxisNameGap: number   | Space between the x axis & name. This is required else the name of the x-axis will overlap with the xAxis line. Default: 30 |
| xAxisNameColor: string   | Color of the name which defines the x-axis.   |
| xAxisPosition: "top"   "bottom"                                    | Position of the x-axis, either on the top of the chart or at the bottom of the chart. Default: "bottom"                     |
| xAxisFontStyle: "normal"   "italic"   "oblique"                    | Font style of the x axis. Default: "normal"   |
| xAxisFontWeight: 'normal'   'bold'   'bolder'   'lighter'   number | CSS font-weight of the a-axis. Default: "normal"  |
| xAxisFontSize: number  | The font size of the x-axis. Default: 18  |
| xAxisLineColor: string   | Color of the x-axis line.   |
| xAxisNameRotate: number  | Rotate the name of the x-axis. Value from -90 to +90.   |

## FicoYAxisConfig

| Property   | Description   |
|--|---|
| showYAxis: boolean   | Should the axis should be shown or hidden. Default: true  |
| yAxisNameLocation: “start”   “middle”   “end”                      | Location of the name of the axis. Default: “middle”   |
| yAxisNameGap: number   | Space between the y-axis & name. This is required else the name is overlapped with the y-axis line. Default: 30 |
| yAxisNameColor: string   | Color of the name that defines the y-axis.  |
| yAxisPosition: “left”   “right”                                    | Position of the y-axis, either on the top of the chart or at the bottom. Default: bottom                        |
| yAxisFontStyle: “normal”   “italic”   “oblique”                    | Font style of the y axis. Default: normal   |
| yAxisFontWeight: 'normal'   'bold'   'bolder'   'lighter'   number | CSS font-weight of the y-axis. Default: normal  |
| yAxisFontSize: number  | The font size of the x-axis. Default: 18  |
| yAxisLineColor: string   | Color of the y-axis line.   |
| yAxisNameRotate: number  | Rotate the name of the y-axis. Value from -90 to +90.   |

### *FicoChartHighlight*

| Property                     | Description  |
|------------------------------|--|
| Property                     | Description  |
| conditions: FicoConditions[] | Condition for highlighting the respective series of the chart.         |
| color: string                | It will be used to highlight the series which satisfies the condition. |
| description: string          | description to show in the highlight legend tooltip.                   |

### **FicoConditions**

| Property   | Description                          |
|--|--------------------------------------|
| type: 'GT'   'LT'   'EQ'   'NEQ'   'GTE'   'LTE' | Type of the condition.               |
| value: number                                    | value that can be used in condition. |

### *FicoLegendConfig*



| Property  | Description  |
|---|--|
| showHighlightCondition: boolean   | show/hide the chart condition  |
| showSeriesName: boolean   | show/hide the chart series legend  |
| legendPosition: 'none'   'top'   'left'   'right'   'bottom'   'bottomLeft'   'bottomRight' | Sets the position of the chart legend and other elements. Default: bottom. |

## Bubble Chart Docs

A bubble chart is a type of data visualization that displays three dimensions of data in a two-dimensional chart. Each bubble represents a data point with three distinct values: the x-axis position, the y-axis position, and the size of the bubble, which usually represents a third variable.

Sample HTML code to create an Bubble chart:

```
<fico-bubble-chart [data]="chart.data" [title]="chart.title" [axis]="chart.axis"
[height]="400"></fico-bubble-chart>
```

A **bubble chart** is a type of data visualization that displays three dimensions of data in a two-dimensional chart. Each point in the chart represents a data item, with its position determined by two numeric values (usually on the X and Y axes), while the size of the bubble represents a third numeric value. This makes bubble charts particularly useful for visualizing relationships and comparisons between data points across multiple dimensions.

### Key Features of Bubble Charts

#### 1. Three Dimensions:

- - The **X-axis** represents one variable.
  - The **Y-axis** represents another variable.
  - The **size of the bubble** represents a third variable, often reflecting magnitude or importance.

#### 2. Visualization of Relationships:

-

- Bubble charts help to identify trends, correlations, and clusters within the data.
- They can reveal how different categories relate to each other based on the values represented by the bubbles.

### **3. Use of Colors:**

- 
- Colors can be used to differentiate categories or to represent additional data dimensions, enhancing visual distinction.

## **Types of Bubble Charts**

### **1. Simple Bubble Chart:**

Displays a standard set of data points with varying sizes, showing the relationship between two variables while indicating a third dimension through the size of the bubbles.

### **2. Categorized Bubble Chart:**

Groups bubbles based on categorical data. Different categories can be represented with distinct colors or shapes, allowing for easy comparison among groups.

### **3. Packed Bubble Chart:**

Bubbles are arranged without overlaps, packed tightly within a defined area. This chart type is useful for representing hierarchical data where the size of each bubble indicates its significance.

### **4. Bubble Map:**

Combines geographic mapping with bubble charts. Bubbles are plotted on a map based on geographical coordinates, with their sizes representing data values (e.g., population density or sales volume).

### **6. Time Series Bubble Chart:**

Plots data points over time, allowing users to see how relationships between variables change over a specified period.

## **Advantages of Bubble Charts**

- **Visual Complexity:** Effectively communicates complex relationships in a single view, making it easier to spot patterns and correlations.
- **Interactivity:** Many charting libraries allow for interactive features (hovering, clicking), providing more in-depth data insights.
- **Space Efficiency:** Utilizes space effectively, allowing for the display of multiple data dimensions in a compact format.

## Domain Model

type **FicoBubbleModel**

| Property       | Value   |
|----------------|---|
| title          | string  |
| subTitle       | string  |
| legendPosition | 'none'   'top'   'left'   'right'   'bottom'   'bottomLeft'   'bottomRight' |
| showToolbar    | boolean   |
| tooltip        | FicoTooltipConfig   |
| data           | Series   Series[]   |
| axis           | FicoAxisConfig  |
| height         | number  |
| crumbs         | string[]  |

Interface

### Series

| Property                 | Description                                       |
|--------------------------|---|
| seriesName: string       | Name of the series.                               |
| dataPoints: DataPoints[] | collection of data points used to plot the chart. |
| stack: string            | stack name to show the data as a part of.         |

DataPoints

| Property                       | Description              |
|--------------------------------|--------------------------|
| xPoint: number   string   Date | Value on the xAxis.      |
| yPoint: number                 | Value on the yAxis.      |
| name: string                   | Name of the data point.  |
| color: string                  | Color of the data point. |

FicoTooltipConfig

| Property   | Description   |
|--|---|
| show: boolean                                      | Show/hide the tooltip. Default: true  |
| showSeriesName: boolean                            | Show/hide the series name in tooltip. Default: true   |
| showDataName: boolean                              | Show/hide the data name in tooltip. Default: true   |
| dataValueFormat: 'default'   'percent'   'decimal' | Determines how the data value displayed in tooltip.<br><b>default:</b> Uses original value.<br><b>percent:</b> Formats the values as percentage.<br><b>decimal:</b> Formats the values to a decimal representation. |

FicoLegendConfig

| Property  | Description   |
|---|---|
| showHighlightCondition: boolean   | show/hide the chart condition                           |
| showSeriesName: boolean   | show/hide the chart series legend                       |
| legendPosition: 'none'   'top'   'left'   'right'   'bottom'   'bottomLeft'   'bottomRight' | Sets the position of the chart legend. Default: bottom. |

FicoAxisConfig

| Property | Description |
|----------|-------------|
|----------|-------------|

|                        |                                     |
|------------------------|-------------------------------------|
| xAxis: FicoXAxisConfig | X-axis configuration for the chart. |
| yAxis: FicoYAxisConfig | Y-axis configuration for the chart. |

### FicoXAxisConfig

| Property   | Description   |
|--|---|
| xAxisName: string  | Name of the x-axis.   |
| showXAxis: boolean   | Should the axis be shown or hidden. Default: true   |
| xAxisNameLocation: “start”   “middle”   “end”                      | Location of the name of the axis. Default: “middle”   |
| xAxisNameGap: number   | Space between the x axis & name. This is required else the name of the x-axis will overlap with the xAxis line. Default: 30 |
| xAxisNameColor: string   | Color of the name which defines the x-axis.   |
| xAxisPosition: “top”   “bottom”                                    | Position of the x-axis, either on the top of the chart or at the bottom of the chart. Default: “bottom”                     |
| xAxisFontStyle: “normal”   “italic”   “oblique”                    | Font style of the x axis. Default: “normal”   |
| xAxisFontWeight: 'normal'   'bold'   'bolder'   'lighter'   number | CSS font-weight of the a-axis. Default: “normal”  |
| xAxisFontSize: number  | The font size of the x-axis. Default: 18  |
| xAxisLineColor: string   | Color of the x-axis line.   |
| xAxisNameRotate: number  | Rotate the name of the x-axis. Value from -90 to +90.   |

### FicoYAxisConfig

| Property                                      | Description  |
|---|--|
| showYAxis: boolean                            | Should the axis should be shown or hidden. Default: true |
| yAxisNameLocation: “start”   “middle”   “end” | Location of the name of the axis. Default: “middle”      |

|  |   |
|--|---|
| yAxisNameGap: number   | Space between the y-axis & name. This is required else overlapped with the y-axis line. Default: 30 |
| yAxisNameColor: string   | Color of the name that defines the y-axis.  |
| yAxisPosition: “left”   “right”                                    | Position of the y-axis, either on the top of the chart or a bottom                                  |
| yAxisFontStyle: “normal”   “italic”   “oblique”                    | Font style of the y axis. Default: normal   |
| yAxisFontWeight: 'normal'   'bold'   'bolder'   'lighter'   number | CSS font-weight of the y-axis. Default: normal  |
| yAxisFontSize: number  | The font size of the x-axis. Default: 18  |
| yAxisLineColor: string   | Color of the y-axis line.   |
| yAxisNameRotate: number  | Rotate the name of the y-axis. Value from -90 to +90.   |

## Coulmn Chart Docs

A Column Chart is a type of bar chart that displays data in vertical bars. Each bar represents a category, with the height of the bar corresponding to the value. It’s commonly used to compare different categories or show changes over time.

Sample HTML code to create an Coulmn chart:

```
<fico-column-chart [height]="500" [title]="chart.title"
[data]="chart.data"></fico-column-chart>
```

| Property                          | Description   |
|-----------------------------------|---|
| title: string                     | Title of the chart.   |
| subTitle: string                  | Subtitle of the chart.  |
| height: number                    | Height of the chart in px. Default: 400px.  |
| legendConfig:<br>FicoLegendConfig | Legend configuration for the chart.   |
| showToolbar: boolean              | Sets the visibility of chart toolbar. The toolbar is displayed in top right section of the chart. |

|  |   |
|--|---|
| data: Series   Series[]                  | The data required for the chart.            |
| axis: FicoAxisConfig                     | Axis configuration for the area chart.      |
| tooltip: FicoTooltipConfig               | Tooltip configuration for the column chart. |
| highlightConfig:<br>FicoChartHighlight[] | Highlight configuration for the chart.      |

## Interfaces

### Series

| Property                 | Description                                       |
|--------------------------|---|
| seriesName: string       | Name of the series.                               |
| dataPoints: DataPoints[] | collection of data points used to plot the chart. |
| stack: string            | stack name to show the data as a part of.         |

### DataPoints

| Property                       | Description              |
|--------------------------------|--------------------------|
| xPoint: number   string   Date | Value on the xAxis.      |
| yPoint: number                 | Value on the yAxis.      |
| name: string                   | Name of the data point.  |
| color: string                  | Color of the data point. |

### FicoTooltipConfig

| Property                | Description   |
|-------------------------|---|
| show: boolean           | Show/hide the tooltip. Default: true                |
| showSeriesName: boolean | Show/hide the series name in tooltip. Default: true |

|  |   |
|--|---|
| showDataName: boolean                              | Show/hide the data name in tooltip. Default: true   |
| dataValueFormat: 'default'   'percent'   'decimal' | Determines how the data value displayed in tooltip.<br><b>default:</b> Uses original value.<br><b>percent:</b> Formats the values as percentage.<br><b>decimal:</b> Formats the values to a decimal representation. |

## FicoAxisConfig

| Property               | Description                         |
|------------------------|-------------------------------------|
| xAxis: FicoXAxisConfig | X-axis configuration for the chart. |
| yAxis: FicoYAxisConfig | Y-axis configuration for the chart. |

## FicoXAxisConfig

| Property   | Description   |
|--|---|
| xAxisName: string  | Name of the x-axis.   |
| showXAxis: boolean   | Should the axis be shown or hidden. Default: true   |
| xAxisNameLocation: "start"   "middle"   "end"                      | Location of the name of the axis. Default: "middle"   |
| xAxisNameGap: number   | Space between the x axis & name. This is required else the name of the x-axis will overlap with the xAxis line. Default: 30 |
| xAxisNameColor: string   | Color of the name which defines the x-axis.   |
| xAxisPosition: "top"   "bottom"                                    | Position of the x-axis, either on the top of the chart or at the bottom of the chart. Default: "bottom"                     |
| xAxisFontStyle: "normal"   "italic"   "oblique"                    | Font style of the x axis. Default: "normal"   |
| xAxisFontWeight: 'normal'   'bold'   'bolder'   'lighter'   number | CSS font-weight of the a-axis. Default: "normal"  |
| xAxisFontSize: number  | The font size of the x-axis. Default: 18  |



|                         |   |
|-------------------------|---|
| xAxisLineColor: string  | Color of the x-axis line.                             |
| xAxisNameRotate: number | Rotate the name of the x-axis. Value from -90 to +90. |

## FicoYAxisConfig

| Property   | Description  |
|--|--|
| showYAxis: boolean   | Should the axis should be shown or hidden.<br>Default: true  |
| yAxisNameLocation: “start”   “middle”   “end”                      | Location of the name of the axis. Default: “middle”  |
| yAxisNameGap: number   | Space between the y-axis & name. This is required else the name of the axis will be overlapped with the y-axis line. Default: 30 |
| yAxisNameColor: string   | Color of the name that defines the y-axis.   |
| yAxisPosition: “left”   “right”                                    | Position of the y-axis, either on the top of the chart or at the bottom of the chart. Default: bottom                            |
| yAxisFontStyle: “normal”   “italic”   “oblique”                    | Font style of the y axis. Default: normal  |
| yAxisFontWeight: 'normal'   'bold'   'bolder'   'lighter'   number | CSS font-weight of the y-axis. Default: normal   |
| yAxisFontSize: number  | The font size of the x-axis. Default: 18   |
| yAxisLineColor: string   | Color of the y-axis line.  |
| yAxisNameRotate: number  | Rotate the name of the y-axis. Value from -90 to +90.  |

## FicoChartHighlight

| Property                     | Description   |
|------------------------------|---|
| Property                     | Description   |
| conditions: FicoConditions[] | Condition for highlighting the respective series of the chart.  |
| color: string                | It will be used to highlight the series which satisfies the con |
| description: string          | description to show in the highlight legend tooltip.            |

## FicoConditions

| Property   | Description                          |
|--|--------------------------------------|
| type: 'GT'   'LT'   'EQ'   'NEQ'   'GTE'   'LTE' | Type of the condition.               |
| value: number                                    | value that can be used in condition. |

## FicoLegendConfig

| Property  | Description   |
|---|---|
| showHighlightCondition: boolean   | show/hide the chart condition                           |
| showSeriesName: boolean   | show/hide the chart series leg                          |
| legendPosition: 'none'   'top'   'left'   'right'   'bottom'   'bottomLeft'   'bottomRight' | Sets the position of the chart others. Default: bottom. |

# Funnel Chart Docs

A funnel chart is often used to visualise data from stages of a process. Readers can quickly identify bottlenecks in the process by comparing the area size variation of each stage. They're often used in sales, marketing, or conversion tracking to illustrate how opportunities or tasks are filtered or drop off through a process.

The minimum recommended height is 175 pixels.

Types of funnel charts:

1. Standard:
  - a. The basic form of a funnel chart. It visually represents the stages of a process or pipeline, with each successive stage having a smaller width, illustrating the decrease or filtering of data.
  - b. The chart can be oriented horizontally or vertically.
  - c. Funnel charts can be colored based on data or series.
  - d. Multi series funnel charts indicate different series of data overlapping over other series.
  - e. Below is an example of a funnel chart indicating the process of a user subscribing to a product:

Sample HTML code to create an Funnel chart:

```
<fico-funnel
  [title]="chart.title"
  [data]="chart.data"
  [height]="400"
  minSize="20%"
  maxSize="50%"
  (segmentClick)="onSegmentClick($event)"
></fico-funnel>
```

Domain Model:

type **FicoFunnelChartDataPoint**

Schema of the datapoint

| Property | Value  |
|----------|--------|
| yPoint   | number |
| name     | string |

type **FicoFunnelChartModel**

| Property       | Value   |
|----------------|---|
| title          | string  |
| subTitle       | string  |
| legendPosition | 'none'   'top'   'left'   'right'   'bottom'   'bottomLeft'   'bottomRight' |
| showToolbar    | boolean   |
| tooltip        | FicoTooltipConfig   |
| data           | FicoFunnelChartDataPoint[]  |
| funnelOptions  | FicoFunnelOptions   |

type **FicoFunnelOptions**

| Property     | Value                       |
|--------------|-----------------------------|
| type         | ‘funnel’                    |
| orient       | 'horizontal'   'vertical'   |
| sort         | 'ascending'   'descending'  |
| colorBy      | 'series'   'data'           |
| align        | 'left'   'center'   'right' |
| labelOptions | FicoFunnelLabelOptions      |
| height       | number                      |
| minSize      | number                      |
| maxSize      | number                      |

type **FicoFunnelLabelOptions**

| Property      | Value  |
|---------------|--|
| show          | boolean  |
| color         | string   |
| align         | 'left'   'center'   'right'                                |
| verticalAlign | 'top'   'middle'   'bottom'                                |
| position      | 'inside'   'outside'   'top'   'left'   'bottom'   'right' |
| formatter     | 'name'   'value'   'percent'                               |
| padding       | number []  |