

# Package ‘ddplot’

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**Type** Package

**Title** Create D3 Based SVG Graphics

**Version** 0.0.2

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**Description** Create 'D3' based 'SVG' ('Scalable Vector Graphics') graphics using a simple 'R' API.

The package aims to simplify  
the creation of many 'SVG' plot types using a straightforward 'R' API.

The package relies on the 'r2d3' 'R' package and the 'D3' 'JavaScript' library.

See <<https://rstudio.github.io/r2d3/>> and <<https://d3js.org/>> respectively.

**License** GPL (>= 3)

**Encoding** UTF-8

**URL** <https://github.com/feddelegrand7/ddplot>

**BugReports** <https://github.com/feddelegrand7/ddplot/issues>

**RoxygenNote** 7.3.1

**Imports** r2d3

**Suggests** knitr, rmarkdown, ggplot2, dplyr, tidyr, zoo, gapminder

**VignetteBuilder** knitr

**NeedsCompilation** no

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**animatedHistogram**      *Create an animated histogram.*

## Description

Create an animated histogram.

## Usage

```
animatedHistogram(
  x,
  bins = 30,
  duration = 2000,
  delay = 100,
  fill = "crimson",
  xFontSize = 10,
  yFontSize = 10,
  xticks = NULL,
  yticks = NULL,
  xtitle = NULL,
  xtitleFontSize = 16,
  ytitle = NULL,
  ytitleFontSize = 16,
  title = NULL,
  titleFontSize = 22,
  stroke = "crimson",
  strokeWidth = NULL,
  font = "Verdana, Geneva, Tahoma, sans-serif",
```

```

    bgcol = "#CAD0D3",
    opacity = 1,
    axisCol = "black",
    width = NULL,
    height = NULL
)

```

## Arguments

x	A vector of data.
bins	The number of bins to consider. Defaults to 30.
duration	The duration of the bars' transition in milliseconds. Defaults to 2000.
delay	The amount of time (in milliseconds) that precedes before triggering the appearance of each bar. Defaults to 100.
fill	The color of the bars. Defaults to 'crimson'.
xFontSize	the font size of the x-axis labels. Defaults to 10.
yFontSize	the font size of the y-axis labels. Defaults to 10.
xticks	Optional. the number of x-axis ticks to consider.
yticks	Optional. The number of y-axis ticks to consider.
xtitle	Optional. The title of the x-axis.
xtitleFontSize	The font size of the x-axis title. Defaults to 16.
ytitle	Optional. The title of the y-axis.
ytitleFontSize	The font size of the y-axis title. Defaults to 16.
title	Optional. The title of the plot.
titleFontSize	The font size of the plot title. Defaults to 22.
stroke	The stroke color of the bars. Defaults to 'crimson'.
strokeWidth	Optional. the stroke width of the bars.
font	The font family to consider for the titles. Defaults to "Verdana, Geneva, Tahoma, sans-serif".
bgcol	The background color of the SVG. Defaults to "#CAD0D3" HEX color.
opacity	The color opacity of the bars (from 0 to 1). Defaults to 1.
axisCol	the color of the x and y axis. It includes the ticks, the labels and titles. Defaults to 'black'.
width	Optional. The width of the SVG output.
height	Optional. The height of the SVG output.

## Value

An animated SVG histogram.

## Examples

```
animatedHistogram(
  x = mtcars$mpg,
  duration = 2000,
  delay = 100
)
```

`animLineChart`

*Create an animated line chart*

## Description

Create an animated line chart

## Usage

```
animLineChart(
  data,
  x,
  y,
  curve = "curveLinear",
  duration = 5000,
  stroke = "crimson",
  strokeWidth = 1.5,
  xticks = NULL,
  yticks = NULL,
  xtitle = NULL,
  xtitleFontSize = 16,
  ytitle = NULL,
  ytitleFontSize = 16,
  title = NULL,
  titleFontSize = 22,
  font = "Verdana, Geneva, Tahoma, sans-serif",
  bgcol = "#CAD0D3",
  opacity = 1,
  axisCol = "black",
  width = NULL,
  height = NULL
)
```

## Arguments

<code>data</code>	The data frame containing the variables to consider.
<code>x</code>	The x-variable to consider. Must be a date variable in 'yyyy-mm-dd' format.
<code>y</code>	The y-variable to consider.
<code>curve</code>	Optional. The line's curve type to render. A complete list can be found here < <a href="https://github.com/d3/d3-shape#curves">https://github.com/d3/d3-shape#curves</a> >. Defaults to 'curveLinear'.

duration	The duration in Milliseconds of the animation. Defaults to 5000.
stroke	The color of the line. Defaults to 'crimson'.
strokeWidth	The width of the line. Defaults to 1.5.
xticks	Optional. the number of x-axis ticks to consider.
yticks	Optional. The number of y-axis ticks to consider.
xtitle	Optional. The title of the x-axis.
xtitleFontSize	The font size of the x-axis title. Defaults to 16.
ytitle	Optional. The title of the y-axis.
ytitleFontSize	The font size of the y-axis title. Defaults to 16.
title	Optional. The title of the plot.
titleFontSize	The font size of the plot title. Defaults to 22.
font	The font family to consider for the titles. Defaults to "Verdana, Geneva, Tahoma, sans-serif".
bgcol	The background color of the SVG. Defaults to "#CAD0D3" HEX color.
opacity	The color opacity of the bars (from 0 to 1). Defaults to 1.
axisCol	the color of the x and y axis. It includes the ticks, the labels and titles. Defaults to 'black'.
width	Optional. The width of the SVG output.
height	Optional. The height of the SVG output.

## Value

An animated SVG line chart.

## Examples

```
airpassengers <- data.frame(  
  passengers = as.matrix(AirPassengers),  
  date= zoo::as.Date(time(AirPassengers))  
)  
animLineChart(  
  data = airpassengers,  
  x = "date",  
  y = "passengers",  
  duration = 10000 # in milliseconds (10 seconds)  
)
```

**areaBand***Create a band chart*

---

**Description**

Create a band chart

**Usage**

```
areaBand(
  data,
  x,
  yLower,
  yUpper,
  fill = "crimson",
  stroke = NULL,
  strokeWidth = NULL,
  xticks = NULL,
  yticks = NULL,
  xtitle = NULL,
  xtitleFontSize = 16,
  ytitle = NULL,
  ytitleFontSize = 16,
  title = NULL,
  titleFontSize = 22,
  font = "Verdana, Geneva, Tahoma, sans-serif",
  bgcol = "#CAD0D3",
  opacity = 1,
  axisCol = "black",
  width = NULL,
  height = NULL
)
```

**Arguments**

<b>data</b>	The data frame containing the variables to consider.
<b>x</b>	The x-variable to consider. Must be a date variable in 'yyyy-mm-dd' format.
<b>yLower</b>	The y-lower band variable to consider.
<b>yUpper</b>	The y-upper band variable to consider.
<b>fill</b>	The color of the band. Defaults to 'crimson'.
<b>stroke</b>	Optional. The color of the stroke of the band.
<b>strokeWidth</b>	Optional. The width of the band stroke.
<b>xticks</b>	Optional. the number of x-axis ticks to consider.
<b>yticks</b>	Optional. The number of y-axis ticks to consider.

xtitle            Optional. The title of the x-axis.  
xtitleFontSize The font size of the x-axis title. Defaults to 16.  
ytitle            Optional. The title of the y-axis.  
ytitleFontSize The font size of the y-axis title. Defaults to 16.  
title            Optional. The title of the plot.  
titleFontSize The font size of the plot title. Defaults to 22.  
font            The font family to consider for the titles. Defaults to "Verdana, Geneva, Tahoma, sans-serif".  
bgcol            The background color of the SVG. Defaults to "#CAD0D3" HEX color.  
opacity            The color opacity of the area chart (from 0 to 1). Defaults to 1.  
axisCol            the color of the x and y axis. It includes the ticks, the labels and titles. Defaults to 'black'.  
width            Optional. The width of the SVG output.  
height            Optional. The height of the SVG output.

### Value

A SVG band chart

### Examples

```
airpassengers <- data.frame(  
  passengers_lower = as.matrix(AirPassengers),  
  passengers_upper = as.matrix(AirPassengers) + 40,  
  date= zoo::as.Date(time(AirPassengers))  
)  
  
areaBand(  
  data = airpassengers,  
  x = "date",  
  yLower = "passengers_lower",  
  yUpper = "passengers_upper",  
  fill = "yellow",  
  stroke = "black"  
)
```

### Description

Create an area chart

## Usage

```
areaChart(
  data,
  x,
  y,
  fill = "crimson",
  stroke = NULL,
  strokeWidth = NULL,
  xticks = NULL,
  yticks = NULL,
  xtitle = NULL,
  xtitleFontSize = 16,
  ytitle = NULL,
  ytitleFontSize = 16,
  title = NULL,
  titleFontSize = 22,
  font = "Verdana, Geneva, Tahoma, sans-serif",
  bgcol = "#CAD0D3",
  opacity = 1,
  axisCol = "black",
  width = NULL,
  height = NULL
)
```

## Arguments

<code>data</code>	The data frame containing the variables to consider.
<code>x</code>	The x-variable to consider. Must be a date variable in 'yyyy-mm-dd' format.
<code>y</code>	The y-variable to consider.
<code>fill</code>	The color of the area chart. Defaults to 'crimson'.
<code>stroke</code>	Optional. The color of the stroke of the area.
<code>strokeWidth</code>	Optional. The width of the area stroke.
<code>xticks</code>	Optional. the number of x-axis ticks to consider.
<code>yticks</code>	Optional. The number of y-axis ticks to consider.
<code>xtitle</code>	Optional. The title of the x-axis.
<code>xtitleFontSize</code>	The font size of the x-axis title. Defaults to 16.
<code>ytitle</code>	Optional. The title of the y-axis.
<code>ytitleFontSize</code>	The font size of the y-axis title. Defaults to 16.
<code>title</code>	Optional. The title of the plot.
<code>titleFontSize</code>	The font size of the plot title. Defaults to 22.
<code>font</code>	The font family to consider for the titles. Defaults to "Verdana, Geneva, Tahoma, sans-serif".
<code>bgcol</code>	The background color of the SVG. Defaults to "#CAD0D3" HEX color.

opacity	The color opacity of the area chart (from 0 to 1). Defaults to 1.
axisCol	the color of the x and y axis. It includes the ticks, the labels and titles. Defaults to 'black'.
width	Optional. The width of the SVG output.
height	Optional. The height of the SVG output.

### Value

a SVG area chart

### Examples

```
# 1. converting AirPassengers to a tidy data frame
airpassengers <- data.frame(
  passengers = as.matrix(AirPassengers),
  date= zoo::as.Date(time(AirPassengers))
)

# 2. plotting the area chart
areaChart(
  data = airpassengers,
  x = "date",
  y = "passengers",
  fill = "purple",
  bgcol = "white"
)
```

---

### barChart

*Create a bar chart.*

---

### Description

Create a bar chart.

### Usage

```
barChart(
  data,
  x,
  y,
  fill = "crimson",
  sort = "none",
  paddingWidth = 0.1,
  xticks = NULL,
  xFontSize = 10,
  yFontSize = 10,
  yticks = NULL,
  xtitle = NULL,
```

```

xtitleFontSize = 16,
ytitle = NULL,
ytitleFontSize = 16,
title = NULL,
titleFontSize = 22,
stroke = "crimson",
strokeWidth = NULL,
font = "Verdana, Geneva, Tahoma, sans-serif",
bgcol = "#CAD0D3",
opacity = 1,
axisCol = "black",
width = NULL,
height = NULL
)

```

## Arguments

<code>data</code>	The data frame containing the variables to consider.
<code>x</code>	The x-variable to consider.
<code>y</code>	The y-variable to consider.
<code>fill</code>	The color of the bars. Defaults to 'crimson'.
<code>sort</code>	Whether to sort or not the bars. Takes three values 'none' which is the default, 'ascending' or 'descending'.
<code>paddingWidth</code>	The distance between each bar. The value goes from 0 to 0.99 included. Defaults to 0.1.
<code>xticks</code>	Optional. the number of x-axis ticks to consider.
<code>xFontSize</code>	the font size of the x-axis labels. Defaults to 10.
<code>yFontSize</code>	the font size of the y-axis labels. Defaults to 10.
<code>yticks</code>	Optional. The number of y-axis ticks to consider.
<code>xtitle</code>	Optional. The title of the x-axis.
<code>xtitleFontSize</code>	The font size of the x-axis title. Defaults to 16.
<code>ytitle</code>	Optional. The title of the y-axis.
<code>ytitleFontSize</code>	The font size of the y-axis title. Defaults to 16.
<code>title</code>	Optional. The title of the plot.
<code>titleFontSize</code>	The font size of the plot title. Defaults to 22.
<code>stroke</code>	The stroke color of the bars. Defaults to 'crimson'.
<code>strokeWidth</code>	Optional. the stroke width of the bars.
<code>font</code>	The font family to consider for the titles. Defaults to "Verdana, Geneva, Tahoma, sans-serif".
<code>bgcol</code>	The background color of the SVG. Defaults to "#CAD0D3" HEX color.
<code>opacity</code>	The color opacity of the bars (from 0 to 1). Defaults to 1.
<code>axisCol</code>	the color of the x and y axis. It includes the ticks, the labels and titles. Defaults to 'black'.
<code>width</code>	Optional. The width of the SVG output.
<code>height</code>	Optional. The height of the SVG output.

**Value**

A SVG bar chart.

**Examples**

```
library(ggplot2) #needed for the mpg data frame
library(dplyr) #needed for data wrangling

mpg %>% group_by(manufacturer) %>%
  summarise(mean_cty = mean(cty)) %>%
  barChart(
    x = "manufacturer",
    y = "mean_cty",
    sort = "ascending",
    xFontSize = 10,
    yFontSize = 10,
    fill = "orange",
    strokeWidth = 1,
    ytitle = "average cty value",
    title = "Average City Miles per Gallon by manufacturer",
    titleFontSize = 16
  )
```

---

barChartRace

*Create a bar chart race.*

---

**Description**

Create a bar chart race.

**Usage**

```
barChartRace(
  data,
  x,
  y,
  time,
  ease = "Linear",
  frameDur = 500,
  transitionDur = 500,
  colorCategory = "Accent",
  sort = "descending",
  paddingWidth = 0.1,
  xFontSize = 10,
  yFontSize = 10,
  xticks = 10,
  xtitle = NULL,
  xtitleFontSize = 16,
```

```

ytitle = NULL,
ytitleFontSize = 14,
title = NULL,
titleFontSize = 22,
stroke = "black",
strokeWidth = NULL,
font = "Verdana, Geneva, Tahoma, sans-serif",
bgcol = "#CAD0D3",
panelcol = "#EBEBEBFF",
xgridlinecol = "white",
opacity = 1,
timeLabel = TRUE,
timeLabelOpts = list(size = 32, prefix = "", suffix = "", xOffset = 0.5, yOffset = 1),
width = NULL,
height = NULL
)

```

## Arguments

<code>data</code>	The data frame containing the variables to consider.
<code>x</code>	The x-variable to consider.
<code>y</code>	The y-variable to consider.
<code>time</code>	The time variable to consider.
<code>ease</code>	The easing method, you can find more here < <a href="https://github.com/d3/d3-ease">https://github.com/d3/d3-ease</a> >. Defaults to 'Linear'.
<code>frameDur</code>	The time spent paused on each frame (time point) in milliseconds.
<code>transitionDur</code>	The time spent transitioning between frames in milliseconds.
<code>colorCategory</code>	A D3 categorical color scheme, you can find more here < <a href="https://github.com/d3/d3-scale-chromatic#categorical">https://github.com/d3/d3-scale-chromatic#categorical</a> >. Defaults to 'Accent'.
<code>sort</code>	Whether to sort or not the bars. Takes three values 'none' which is the default, 'ascending' or 'descending'. Defaults to 'descending'.
<code>paddingWidth</code>	The distance between each bar. The value goes from 0 to 0.99 included. Defaults to 0.1.
<code>xFontSize</code>	the font size of the x-axis labels. Defaults to 10.
<code>yFontSize</code>	the font size of the y-axis labels. Defaults to 10.
<code>xticks</code>	the number of y-axis ticks to consider. Defaults to 10.
<code>xtitle</code>	Optional. The title of the x-axis.
<code>xtitleFontSize</code>	The font size of the x-axis title. Defaults to 16.
<code>ytitle</code>	Optional. The title of the y-axis.
<code>ytitleFontSize</code>	The font size of the y-axis title. Defaults to 14.
<code>title</code>	Optional. The title of the plot.
<code>titleFontSize</code>	The font size of the plot title. Defaults to 22.
<code>stroke</code>	The stroke color of the bars. Defaults to 'black'.

<code>strokeWidth</code>	Optional. the stroke width of the bars.
<code>font</code>	The font family to consider for the titles. Defaults to "Verdana, Geneva, Tahoma, sans-serif".
<code>bgcol</code>	The background color of the SVG. Defaults to "#CAD0D3" HEX color.
<code>panelcol</code>	The background color of the panel. Defaults to "#EBEBEBFF" HEX color.
<code>xgridlinecol</code>	The color of the x-axis grid lines. Defaults to 'white'.
<code>opacity</code>	The color opacity of the bars (from 0 to 1). Defaults to 1.
<code>timeLabel</code>	Whether to show a label for the value of the time variable. Defaults to TRUE.
<code>timeLabelOpts</code>	Options for labeling the value of the time variable. Takes a list specifying the 'size', 'prefix', 'suffix', 'xOffset', and 'yOffset'. Offsets are scaled relative to the dimensions of the label, from the bottom-right corner of the panel.
<code>width</code>	Optional. The width of the SVG output.
<code>height</code>	Optional. The height of the SVG output.

## Value

An animated SVG bar chart race, wrapped in a div.

## Examples

```
library(gapminder)
library(dplyr)
# let's select a set of countries only
gapminder <- gapminder %>%
  filter(
    country %in% c("Algeria", "Mexico", "Iceland", "Greece", "Finland")
  )

barChartRace(
  data = gapminder,
  x = "lifeExp",
  y = "country",
  time = "year",
  ytitle = "Country",
  xtitle = "Life expectancy",
  title = "Bar chart race of countries life expectancy"
)
```

## Description

Creates an animated flame SVG visualization whose size and color gradient can be customized. The flame grows or shrinks based on the intensity parameter, with smooth pulsing and wobbling animation.

## Usage

```
flame(
  intensity = 50,
  flameGradientColors = c("white", "yellow", "darkred"),
  flameOutline = "darkred",
  bgcol = "white",
  width = NULL,
  height = NULL
)
```

## Arguments

intensity	Numeric value controlling the size of the flame. Values greater than 100 cause the flame to grow beyond default scaling, while smaller values shrink it. Defaults to 50.
flameGradientColors	A length-3 character vector specifying the colors of the flame gradient, from the center outward. Defaults to c("white", "yellow", "darkred").
flameOutline	Color string for the flame's outline stroke. Defaults to "darkred".
bgcol	Background color of the SVG canvas. Defaults to "white".
width	Optional width of the SVG output.
height	Optional height of the SVG output.

## Value

An r2d3 object displaying the animated flame visualization.

## Examples

```
flame(intensity = 5)
flame(
  intensity = 50,
  flameGradientColors = c("lightblue", "blue", "darkblue")
)
```

*flower*

*Display a Rotating Flower Visualization*

## Description

Display a Rotating Flower Visualization

**Usage**

```
flower(  
    petalCount = 6,  
    petalLength = 100,  
    petalWidth = 60,  
    petalColor = "lightpink",  
    petalStroke = "deeppink",  
    centerRadius = 20,  
    centerColor = "gold",  
    centerStroke = "darkorange",  
    centerText = NULL,  
    centerTextSize = 16,  
    centerTextColor = "black",  
    font = "Verdana, Geneva, Tahoma, sans-serif",  
    bgcol = "white",  
    rotationSpeed = 2,  
    width = NULL,  
    height = NULL  
)
```

**Arguments**

petalCount	The number of petals. Defaults to 6.
petalLength	The length of each petal. Defaults to 100.
petalWidth	The width of each petal. Defaults to 60.
petalColor	The fill color of the petals. Defaults to "lightpink".
petalStroke	The stroke color of the petals. Defaults to "deeppink".
centerRadius	The radius of the flower's center circle. Defaults to 20.
centerColor	The fill color of the center. Defaults to "gold".
centerStroke	The stroke color of the center. Defaults to "darkorange".
centerText	Optional. Text to display inside the center (e.g., a number or emoji).
centerTextSize	The size of the center text. Defaults to 16.
centerTextColor	The color of the center text. Defaults to "black".
font	The font family for the center text. Defaults to "Verdana, Geneva, Tahoma, sans-serif".
bgcol	The background color of the visualization. Defaults to "white".
rotationSpeed	The speed of rotation (degrees per animation frame). Defaults to 2.
width	The width of the SVG output. Optional.
height	The height of the SVG output. Optional.

**Value**

An animated rotating flower SVG.

## Examples

```
flower(
  petalCount = 5,
  petalColor = "plum",
  rotationSpeed = 1.5
)
```

**glass\_fill**

*Visualize a Glass Filling with Water using D3*

## Description

This function generates an SVG visualization of a glass filled with water to a specified level, rendered via D3 using the r2d3 package. The fill level, appearance of the glass, and label settings can be customized.

## Usage

```
glass_fill(
  fill_level = 0.65,
  glassWidth = 80,
  glassHeight = 200,
  strokeColor = "#555",
  strokeWidth = 3,
  fillColor = "skyblue",
  renderFillLabel = TRUE,
  labelFontSize = "16px",
  titleText = "Fill level",
  labelColor = "#333",
  titleColor = "#333",
  titleFontSize = "14px",
  font = "Verdana, Geneva, Tahoma, sans-serif"
)
```

## Arguments

<code>fill_level</code>	Numeric value between 0 and 1 indicating how full the glass should appear.
<code>glassWidth</code>	Width of the glass in pixels.
<code>glassHeight</code>	Height of the glass in pixels.
<code>strokeColor</code>	Color of the glass outline (stroke).
<code>strokeWidth</code>	Width of the glass outline stroke.
<code>fillColor</code>	Color used to fill the water in the glass.
<code>renderFillLabel</code>	Logical indicating whether to display a percentage label above the glass.
<code>labelFontSize</code>	Font size of the label, defaults to "16px"

titleText	Text to display as the title beneath the glass.
labelColor	Color of the label.
titleColor	Color of the title text displayed below the glass.
titleFontSize	Font size of the title text, defaults to "14px"
font	The font name that will be used for the plot text. Defaults to "Verdana, Geneva, Tahoma, sans-serif"

**Value**

An interactive D3 visualization rendered in the RStudio Viewer or web browser.

**Examples**

```
glass_fill(fill_level = 0.75)
glass_fill(fill_level = 0.3, fillColor = "lightblue", titleText = "Water Intake")
```

heart\_fill

*Visualize a Heart Filling with Color using D3***Description**

This function renders a heart-shaped SVG graphic that fills from the bottom up based on the provided level. The appearance of the heart and the optional label can be fully customized. It uses the ‘r2d3’ package to render the visualization with D3.js.

**Usage**

```
heart_fill(
  fill_level = 0.65,
  heartSize = 150,
  strokeColor = "#C00",
  strokeWidth = 4,
  fillColor = "red",
  renderFillLabel = TRUE,
  labelColor = "#333",
  labelFontSize = "16px",
  titleText = "Fill level",
  titleColor = "#333",
  titleFontSize = "14px",
  font = "Verdana, Geneva, Tahoma, sans-serif"
)
```

**Arguments**

<code>fill_level</code>	Value between 0 and 1 indicating how full the heart should appear (e.g., 0.65).
<code>heartSize</code>	Width/height scale of the heart in pixels.
<code>strokeColor</code>	Color of the heart outline.
<code>strokeWidth</code>	Width of the heart outline stroke.
<code>fillColor</code>	Color used to fill the heart based on the fill level.
<code>renderFillLabel</code>	Whether to display a percentage label above the heart.
<code>labelColor</code>	Color of the percentage label text.
<code>labelFontSize</code>	Font size of the percentage label text (e.g., "16px").
<code>titleText</code>	Optional title displayed below the heart.
<code>titleColor</code>	Color of the title text.
<code>titleFontSize</code>	Font size of the title text (e.g., "14px").
<code>font</code>	Font family used for text labels and title.

**Value**

An interactive D3 heart fill visualization rendered in the RStudio Viewer or web browser.

**Examples**

```
heart_fill(fill_level = 0.9)
heart_fill(
  fill_level = 0.4,
  fillColor = "pink",
  labelColor = "#C00",
  strokeColor = "#900"
)
```

**histogram**

*Create a histogram.*

**Description**

Create a histogram.

**Usage**

```
histogram(
  x,
  bins = 30,
  fill = "crimson",
  xFontSize = 10,
```

```

yFontSize = 10,
xticks = NULL,
yticks = NULL,
xtitle = NULL,
xtitleFontSize = 16,
ytitle = NULL,
ytitleFontSize = 16,
title = NULL,
titleFontSize = 22,
stroke = "crimson",
strokeWidth = NULL,
font = "Verdana, Geneva, Tahoma, sans-serif",
bgcol = "#CAD0D3",
opacity = 1,
axisCol = "black",
width = NULL,
height = NULL
)

```

## Arguments

<code>x</code>	A vector of data.
<code>bins</code>	The number of bins to consider. Defaults to 30.
<code>fill</code>	The color of the bars. Defaults to 'crimson'.
<code>xFontSize</code>	the font size of the x-axis labels. Defaults to 10.
<code>yFontSize</code>	the font size of the y-axis labels. Defaults to 10.
<code>xticks</code>	Optional. the number of x-axis ticks to consider.
<code>yticks</code>	Optional. The number of y-axis ticks to consider.
<code>xtitle</code>	Optional. The title of the x-axis.
<code>xtitleFontSize</code>	The font size of the x-axis title. Defaults to 16.
<code>ytitle</code>	Optional. The title of the y-axis.
<code>ytitleFontSize</code>	The font size of the y-axis title. Defaults to 16.
<code>title</code>	Optional. The title of the plot.
<code>titleFontSize</code>	The font size of the plot title. Defaults to 22.
<code>stroke</code>	The stroke color of the bars. Defaults to 'crimson'.
<code>strokeWidth</code>	Optional. the stroke width of the bars.
<code>font</code>	The font family to consider for the titles. Defaults to "Verdana, Geneva, Tahoma, sans-serif".
<code>bgcol</code>	The background color of the SVG. Defaults to "#CAD0D3" HEX color.
<code>opacity</code>	The color opacity of the bars (from 0 to 1). Defaults to 1.
<code>axisCol</code>	the color of the x and y axis. It includes the ticks, the labels and titles. Defaults to 'black'.
<code>width</code>	Optional. The width of the SVG output.
<code>height</code>	Optional. The height of the SVG output.

**Value**

A SVG histogram.

**Examples**

```
histogram(
  x = mtcars$mpg,
  bins = 20,
  fill = "crimson",
  stroke = "white",
  strokeWidth = 1,
  title = "Distribution of the hwy variable",
  width = "20",
  height = "10"
)
```

**horzBarChart**

*Create a horizontal bar chart*

**Description**

Create a horizontal bar chart

**Usage**

```
horzBarChart(
  data,
  label,
  value,
  fill = "crimson",
  sort = "none",
  paddingWidth = 0.1,
  stroke = NULL,
  strokeWidth = 1,
  bgcol = "#CAD0D3",
  valueTicks = NULL,
  valueFontSize = 10,
  labelFontSize = 10,
  valueTitle = NULL,
  valueTitleFontSize = 14,
  labelTitle = NULL,
  labelTitleFontSize = 14,
  font = "Verdana, Geneva, Tahoma, sans-serif",
  title = NULL,
  titleFontSize = 20,
  opacity = 1,
  axisCol = "black",
  width = NULL,
```

```

    height = NULL
)

```

### Arguments

data	The data frame containing the variables to consider.
label	The categorical variable to consider. Will be plotted on the y-axis.
value	The numeric variable to consider. Will be plotted on the x-axis.
fill	The color of the bars. Defaults to 'crimson'.
sort	Optional. Takes the following arguments: 'none', 'ascending' or 'descending', default to 'none'
paddingWidth	The distance between each bar. The value goes from 0 to 0.99 included. Defaults to 0.1.
stroke	Optional. The color of the stroke of the bars.
strokeWidth	The width of the stroke of the bars. Defaults to 1 when the 'stroke' parameter is used.
bgcol	Optional. The color of the background, default to: '#CAD0D3'
valueTicks	Optional. the number of x-axis ticks to consider.
valueFontSize	The font size of the x-axis values. Defaults to 10.
labelFontSize	The font size of the y-axis labels. Defaults to 10.
valueTitle	Optional. The title of the x-axis.
valueTitleFontSize	The font size of the x-axis title if specified. Defaults to 14.
labelTitle	Optional. The title of the y-axis.
labelTitleFontSize	The font size of the y-axis title. Defaults to 14.
font	The font family of the text. Defaults to "Verdana, Geneva, Tahoma, sans-serif"
title	Optional. The title of the overall graphic.
titleFontSize	The font size of the overall graphic's title when specified.
opacity	The color opacity of the bars. Goes from 0 to 1. Defaults to 1.
axisCol	the color of the x and y axis. It includes the ticks, the labels and titles. Defaults to 'black'.
width	Optional. The width of the SVG output.
height	Optional. The height of the SVG output.

### Value

A SVG horizontal bar chart.

## Examples

```
library(ggplot2) # needed for the mpg data frame
library(dplyr) # needed for the data wrangling process

mpg %>% group_by(manufacturer) %>%
  summarise(median_hwy = median(hwy)) %>%
  horzBarChart(
    label = "manufacturer",
    value = "median_hwy",
    sort = "ascending"
  )
```

**horzLollipop**

*Create a horizontal lollipop chart*

## Description

Create a horizontal lollipop chart

## Usage

```
horzLollipop(
  data,
  label,
  value,
  sort = "none",
  bgcol = "white",
  valueTicks = NULL,
  labelTicks = NULL,
  valueFontSize = 12,
  labelFontSize = 12,
  font = "Verdana, Geneva, Tahoma, sans-serif",
  valueTitle = NULL,
  valueTitleFontSize = 14,
  labelTitle = NULL,
  labelTitleFontSize = 14,
  title = NULL,
  titleFontSize = 20,
  lineStroke = "maroon",
  lineStrokeWidth = 4,
  circleFill = "lime",
  circleStroke = "lime",
  circleStrokeWidth = 1,
  circleRadius = 5,
  axisCol = "black",
  width = NULL,
  height = NULL
)
```

## Arguments

<code>data</code>	The data frame containing the variables to consider.
<code>label</code>	The categorical variable to consider. Will be plotted on the x-axis.
<code>value</code>	The numeric variable to consider. Will be plotted on the y-axis.
<code>sort</code>	Whether to sort or not the vertical lines. Takes three values 'none' which is the default, 'ascending' or 'descending'.
<code>bgcol</code>	The background-color of the SVG output. Defaults to 'salmon'.
<code>valueTicks</code>	Optional. the number of x-axis ticks to consider.
<code>labelTicks</code>	Optional. The number of y-axis ticks to consider.
<code>valueFontSize</code>	the font size of the x-axis labels. Defaults to 10.
<code>labelFontSize</code>	the font size of the y-axis labels. Defaults to 10.
<code>font</code>	The font family to consider for the titles. Defaults to "Verdana, Geneva, Tahoma, sans-serif".
<code>valueTitle</code>	Optional. The title of the x-axis.
<code>valueTitleFontSize</code>	The font size of the x-axis title. Defaults to 14.
<code>labelTitle</code>	Optional. The title of the y-axis.
<code>labelTitleFontSize</code>	The font size of the y-axis title. Defaults to 14.
<code>title</code>	Optional. The title of the plot.
<code>titleFontSize</code>	The font size of the plot title. Defaults to 22.
<code>lineStroke</code>	The stroke color of the vertical lines. Defaults to 'maroon'.
<code>lineStrokeWidth</code>	The vertical lines stroke's width. Defaults to 4.
<code>circleFill</code>	The color of the circles. Defaults to 'lime'.
<code>circleStroke</code>	The color of the stroke surrounding the circle. Defaults to 'lime'.
<code>circleStrokeWidth</code>	The width of the circles' stroke. Defaults to 1.
<code>circleRadius</code>	The radius of the circles. Defaults to 10.
<code>axisCol</code>	the color of the x and y axis. It includes the ticks, the labels and titles. Defaults to 'black'.
<code>width</code>	Optional. The width of the SVG output.
<code>height</code>	Optional. The height of the SVG output.

## Value

A SVG horizontal lollipop chart.

---

**lineChart***Create a line chart*

---

**Description**

Create a line chart

**Usage**

```
lineChart(  
  data,  
  x,  
  y,  
  curve = "curveLinear",  
  stroke = "crimson",  
  strokeWidth = 1.5,  
  xticks = NULL,  
  yticks = NULL,  
  xtitle = NULL,  
  xtitleFontSize = 16,  
  ytitle = NULL,  
  ytitleFontSize = 16,  
  title = NULL,  
  titleFontSize = 22,  
  font = "Verdana, Geneva, Tahoma, sans-serif",  
  bgcol = "#CAD0D3",  
  opacity = 1,  
  axisCol = "black",  
  width = NULL,  
  height = NULL  
)
```

**Arguments**

<b>data</b>	The data frame containing the variables to consider.
<b>x</b>	The x-variable to consider. Must be a date variable in 'yyyy-mm-dd' format.
<b>y</b>	The y-variable to consider.
<b>curve</b>	The line's curve type to render. A complete list can be found here < <a href="https://github.com/d3/d3-shape#curves">https://github.com/d3/d3-shape#curves</a> >. Defaults to 'curveLinear'.
<b>stroke</b>	The color of the line. Defaults to 'crimson'.
<b>strokeWidth</b>	The width of the line. Defaults to 1.5.
<b>xticks</b>	Optional. the number of x-axis ticks to consider.
<b>yticks</b>	Optional. The number of y-axis ticks to consider.
<b>xtitle</b>	Optional. The title of the x-axis.

xtitleFontSize The font size of the x-axis title. Defaults to 16.

ytitle Optional. The title of the y-axis.

ytitleFontSize The font size of the y-axis title. Defaults to 16.

title Optional. The title of the plot.

titleFontSize The font size of the plot title. Defaults to 22.

font The font family to consider for the titles. Defaults to "Verdana, Geneva, Tahoma, sans-serif".

bgcol The background color of the SVG. Defaults to "#CAD0D3" HEX color.

opacity The color opacity of the bars (from 0 to 1). Defaults to 1.

axisCol the color of the x and y axis. It includes the ticks, the labels and titles. Defaults to 'black'.

width Optional. The width of the SVG output.

height Optional. The height of the SVG output.

### Value

A SVG line chart.

### Examples

```
# 1. converting AirPassengers to a tidy data frame
airpassengers <- data.frame(
  passengers = as.matrix(AirPassengers),
  date= zoo::as.Date(time(AirPassengers))
)

# 2. plotting the line chart
lineChart(
  data = airpassengers,
  x = "date",
  y = "passengers"
)
```

### Description

Create a lollipop chart

## Usage

```
lollipopChart(
  data,
  x,
  y,
  sort = "none",
  bgcol = "white",
  xticks = NULL,
  yticks = NULL,
  xFontSize = 12,
  yFontSize = 12,
  font = "Verdana, Geneva, Tahoma, sans-serif",
  xtitle = NULL,
  xtitleFontSize = 14,
  ytitle = NULL,
  ytitleFontSize = 14,
  title = NULL,
  titleFontSize = 20,
  lineStroke = "maroon",
  lineStrokeWidth = 4,
  circleFill = "lime",
  circleStroke = "lime",
  circleStrokeWidth = 1,
  circleRadius = 10,
  axisCol = "black",
  width = NULL,
  height = NULL
)
```

## Arguments

<code>data</code>	The data frame containing the variables to consider.
<code>x</code>	The categorical variable to consider. Will be plotted on the x-axis.
<code>y</code>	The numeric variable to consider. Will be plotted on the y-axis.
<code>sort</code>	Whether to sort or not the vertical lines. Takes three values 'none' which is the default, 'ascending' or 'descending'.
<code>bgcol</code>	The background-color of the SVG output. Defaults to 'white'.
<code>xticks</code>	Optional. the number of x-axis ticks to consider.
<code>yticks</code>	Optional. The number of y-axis ticks to consider.
<code>xFontSize</code>	the font size of the x-axis labels. Defaults to 10.
<code>yFontSize</code>	the font size of the y-axis labels. Defaults to 10.
<code>font</code>	The font family to consider for the titles. Defaults to "Verdana, Geneva, Tahoma, sans-serif".
<code>xtitle</code>	Optional. The title of the x-axis.
<code>xtitleFontSize</code>	The font size of the x-axis title. Defaults to 16.

ytitle            Optional. The title of the y-axis.  
 ytitleFontSize   The font size of the y-axis title. Defaults to 16.  
 title            Optional. The title of the plot.  
 titleFontSize   The font size of the plot title. Defaults to 22.  
 lineStroke       The stroke color of the vertical lines. Defaults to 'maroon'.  
 lineStrokeWidth  
                   The vertical lines stroke's width. Defaults to 4.  
 circleFill       The color of the circles. Defaults to 'lime'.  
 circleStroke      The color of the stroke surrounding the circle. Defaults to 'lime'.  
 circleStrokeWidth  
                   The width of the circles' stroke. Defaults to 1.  
 circleRadius      The radius of the circles. Defaults to 10.  
 axisCol           the color of the x and y axis. It includes the ticks, the labels and titles. Defaults to 'black'.  
 width            Optional. The width of the SVG output.  
 height           Optional. The height of the SVG output.

### Value

A SVG lollipop chart.

### Examples

```

library(ggplot2) # needed for the mpg data frame
library(dplyr) # needed for data wrangling

mpg %>% group_by(drv) %>%
  summarise(median_cty = median(cty)) %>%
  lollipopChart(
    x = "drv",
    y = "median_cty",
    sort = "ascending",
    xtitle = "drv variable",
    ytitle = "median cty",
    title = "Median cty per drv"
  )

```

### Description

Display a Parliament Chart

**Usage**

```
parliament_chart(
  data,
  categorical_column,
  numerical_column,
  seatSize = 6,
  padding = 2,
  maxRows = NULL,
  title = NULL,
  titleFontSize = 22,
  font = "Verdana, Geneva, Tahoma, sans-serif",
  bgcol = "#CAD0D3",
  width = NULL,
  height = NULL
)
```

**Arguments**

<code>data</code>	A data frame with a categorical column and a numerical column
<code>categorical_column</code>	The categorical column to consider
<code>numerical_column</code>	The numerical column to consider
<code>seatSize</code>	The size of each seat. Defaults to 6.
<code>padding</code>	The padding between seats. Defaults to 2.
<code>maxRows</code>	The maximum number of rows. Optional.
<code>title</code>	The title of the chart. Optional.
<code>titleFontSize</code>	Font size for the title. Defaults to 22.
<code>font</code>	Font family for text. Defaults to "Verdana, Geneva, Tahoma, sans-serif".
<code>bgcol</code>	Background color of the chart. Defaults to "#CAD0D3".
<code>width</code>	Width of the SVG canvas. Optional.
<code>height</code>	Height of the SVG canvas. Optional.

**Value**

A D3-rendered Parliament chart

**Examples**

```
political_results_example <- data.frame(
  political_party = c("SDP", "CDU", "Linke"),
  number_of_seats = c(200, 40, 30)
)
parliament_chart(
  data = political_results_example,
  categorical_column = "political_party",
```

```
numerical_column = "number_of_seats",
title = "German Bundestag (results not real, just an example)",
seatSize = 10,
bgcol = "#fefefe"
)
```

---

**pieChart***Create a pie chart*

---

**Description**

Create a pie chart

**Usage**

```
pieChart(
  data,
  value,
  label,
  colorCategory = "Paired",
  innerRadius = 0,
  outerRadius = "auto",
  padRadius = 0,
  padAngle = NULL,
  cornerRadius = 0,
  labelFont = "sans-serif",
  title = NULL,
  titleFontSize = 22,
  font = "Verdana, Geneva, Tahoma, sans-serif",
  bgcol = "white",
  opacity = 1,
  labelHeight = 18,
  width = NULL,
  height = NULL
)
```

**Arguments**

<code>data</code>	The data frame to consider.
<code>value</code>	The numeric variable to consider.
<code>label</code>	The labeling variable to consider.
<code>colorCategory</code>	A D3 categorical color scheme, you can find more here < <a href="https://github.com/d3/d3-scale-chromatic#categorical">https://github.com/d3/d3-scale-chromatic#categorical</a> >. Defaults to 'Paired'
<code>innerRadius</code>	The size of the inner radius of the pie. Defaults to 0. Set the inner radius to a higher value to plot a donut chart.
<code>outerRadius</code>	The size of the outer radius of the pie.

<code>padRadius</code>	From the D3 official documentation, The pad radius compute the fixed linear distance separating adjacent arcs, defined as <code>padRadius * padAngle</code> .
<code>padAngle</code>	Optional. From the D3 official documentation, the <code>padAngle</code> is used to set the padding angle between consecutive arcs.
<code>cornerRadius</code>	From the D3 official documentation, the value of the corner radius for rounded corners. If the corner radius is greater than zero, the corners of the arc are rounded using circles of the given radius. Defaults to 0.
<code>labelFont</code>	The font family of the legend. Defaults to 'sans-serif'.
<code>title</code>	Optional. The title of the plot.
<code>titleFontSize</code>	The font size of the plot title. Defaults to 22.
<code>font</code>	The font family to consider for the titles. Defaults to "Verdana, Geneva, Tahoma, sans-serif".
<code>bgcol</code>	The background color of the SVG. Defaults to "white".
<code>opacity</code>	The color opacity of the pie (from 0 to 1). Defaults to 1.
<code>labelHeight</code>	The height of the legend. Defaults to 18.
<code>width</code>	Optional. The width of the SVG output.
<code>height</code>	Optional. The height of the SVG output.

### Value

A SVG pie chart

### Examples

```
library(dplyr) # needed for the starwars data frame

# starwars is part of the dplyr data frame
mini_starwars <- starwars %>% tidyrr::drop_na(mass) %>%
  sample_n(size = 5) # getting 5 random values

pieChart(
  data = mini_starwars,
  value = "mass",
  label = "name"
)
```

### Description

This function creates a plant growth meter visualization.

**Usage**

```
plant_growth(  
    fill_level = 0.5,  
    potWidth = 100,  
    potHeight = 40,  
    plantMaxHeight = 150,  
    stemColor = "#228B22",  
    potColor = "#8B4513",  
    flowerColor = "#FF69B4",  
    strokeColor = "#333",  
    strokeWidth = 2,  
    renderFillLabel = TRUE,  
    titleText = "Plant Growth",  
    titleColor = "#333",  
    titleFontSize = "14px",  
    font = "sans-serif"  
)
```

**Arguments**

fill_level	Numeric between 0 and 1 indicating growth level.
potWidth	Width of the pot.
potHeight	Height of the pot.
plantMaxHeight	Max height of plant stem.
stemColor	Color of the plant stem and leaves.
potColor	Color of the pot.
flowerColor	Color of the flowers that bloom when growth is high.
strokeColor	Outline color for the pot.
strokeWidth	Outline width.
renderFillLabel	Whether to display a growth label.
titleText	Title shown below the pot.
titleColor	Title color.
titleFontSize	Font size of the title.
font	Font family.

---

scatterPlot	<i>Create a scatter plot.</i>
-------------	-------------------------------

---

**Description**

Create a scatter plot.

**Usage**

```
scatterPlot(
  data,
  x,
  y,
  col = "crimson",
  size = 2,
  xticks = NULL,
  yticks = NULL,
  xtitle = NULL,
  xtitleFontSize = 16,
  ytitle = NULL,
  ytitleFontSize = 16,
  title = NULL,
  titleFontSize = 22,
  stroke = NULL,
  strokeWidth = NULL,
  font = "Verdana, Geneva, Tahoma, sans-serif",
  bgcol = "#CAD0D3",
  opacity = 1,
  axisCol = "black",
  width = NULL,
  height = NULL
)
```

**Arguments**

<code>data</code>	The data frame containing the quantitative variables.
<code>x</code>	The x-variable to consider.
<code>y</code>	The y-variable to consider.
<code>col</code>	The color of the dots. Defaults to 'crimson'.
<code>size</code>	The size of the dots. Defaults to 2.
<code>xticks</code>	Optional. The number of x-axis ticks to consider.
<code>yticks</code>	Optional. The number of y-axis ticks to consider.
<code>xtitle</code>	Optional. the title of the x-axis.
<code>xtitleFontSize</code>	The font size of the x-axis title. Defaults to 16.
<code>ytitle</code>	Optional. The title of the y-axis.
<code>ytitleFontSize</code>	The font size of the y-axis title. Defaults to 16.
<code>title</code>	Optional. the title of the plot.
<code>titleFontSize</code>	The font size of the plot title. Defaults to 22.
<code>stroke</code>	Optional. the stroke color of the dots.
<code>strokeWidth</code>	Optional. the stroke width of the dots.
<code>font</code>	The font family to consider for the titles. Defaults to "Verdana, Geneva, Tahoma, sans-serif".

bgcol	The background color of the SVG. Defaults to "#CAD0D3" HEX color.
opacity	The color opacity of the dots (from 0 to 1). Defaults to 1.
axisCol	the color of the x and y axis. It includes the ticks, the labels and titles. Defaults to 'black'.
width	Optional. the width of the SVG output.
height	Optional. the height of the SVG output.

**Value**

A SVG scatter plot.

**Examples**

```
scatterPlot(
  data = mtcars,
  x = "mpg",
  y = "wt"
)
```

---

stackedAreaChart	<i>Create a stacked area chart</i>
------------------	------------------------------------

---

**Description**

Create a stacked area chart

**Usage**

```
stackedAreaChart(
  data,
  x,
  colorCategory = "Category10",
  curve = "curveLinear",
  stroke = NULL,
  strokeWidth = 1.5,
  xticks = NULL,
  yticks = NULL,
  xtitle = NULL,
  xtitleFontSize = 16,
  ytitle = NULL,
  ytitleFontSize = 16,
  title = NULL,
  titleFontSize = 22,
  font = "Verdana, Geneva, Tahoma, sans-serif",
  bgcol = "#CAD0D3",
  opacity = 1,
```

```

    axisCol = "black",
    legendBoxSize = 18,
    legendTextSize = 18,
    width = NULL,
    height = NULL
)

```

## Arguments

<code>data</code>	The data frame containing the variables to consider.
<code>x</code>	The x-variable to consider. Must be a date variable in 'yyyy-mm-dd' format.
<code>colorCategory</code>	A D3 categorical color scheme, you can find more here < <a href="https://github.com/d3/d3-scale-chromatic#categorical">https://github.com/d3/d3-scale-chromatic#categorical</a> >. Defaults to 'Category10'.
<code>curve</code>	The line's curve type to render. A complete list can be found here < <a href="https://github.com/d3/d3-shape#curves">https://github.com/d3/d3-shape#curves</a> >. Defaults to 'curveLinear'.
<code>stroke</code>	Optional. The color of the stroke of the area.
<code>strokeWidth</code>	The width of the line. Defaults to 1.5.
<code>xticks</code>	Optional. the number of x-axis ticks to consider.
<code>yticks</code>	Optional. The number of y-axis ticks to consider.
<code>xtitle</code>	Optional. The title of the x-axis.
<code>xtitleFontSize</code>	The font size of the x-axis title. Defaults to 16.
<code>ytitle</code>	Optional. The title of the y-axis.
<code>ytitleFontSize</code>	The font size of the y-axis title. Defaults to 16.
<code>title</code>	Optional. The title of the plot.
<code>titleFontSize</code>	The font size of the plot title. Defaults to 22.
<code>font</code>	The font family to consider for the titles. Defaults to "Verdana, Geneva, Tahoma, sans-serif".
<code>bgcol</code>	The background color of the SVG. Defaults to "#CAD0D3" HEX color.
<code>opacity</code>	The color opacity of the area chart (from 0 to 1). Defaults to 1.
<code>axisCol</code>	the color of the x and y axis. It includes the ticks, the labels and titles. Defaults to 'black'.
<code>legendBoxSize</code>	The size of the legend rectangles. Defaults to 18.
<code>legendTextSize</code>	The font size of the legend text Defaults to 18.
<code>width</code>	Optional. The width of the SVG output.
<code>height</code>	Optional. The height of the SVG output.

## Value

a SVG stacked area chart

## Examples

```
data <- data.frame(
  date = c(
    "2000-01-01", "2000-02-01", "2000-03-01", "2000-04-01",
    "2000-05-01", "2000-06-01", "2000-07-01",
    "2000-08-01", "2000-09-01", "2000-10-01"
  ),
  Trade = c(
    2000, 1023, 983, 2793, 1821, 1837, 1792, 1853, 791, 739
  ),
  Manufacturing = c(
    734, 694, 739, 736, 685, 621, 708, 685, 667, 693
  ),
  Leisure = c(
    1782, 1779, 1789, 658, 675, 833, 786, 675, 636, 691
  ),
  Agriculture = c(
    655, 587, 623, 517, 561, 2545, 636, 584, 559, 2504
  )
)

stackedAreaChart(
  data = data,
  x = "date",
  legendTextSize = 14,
  curve = "curveCardinal",
  colorCategory = "Accent",
  bgcol = "white",
  stroke = "black",
  strokeWidth = 1
)
```

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