# Package 'rNGCircos'

# December 12, 2020

Type Package

Title Next Generation Circos in R

Version 1.0.0	
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<b>Description</b> A R package based on NGCircos: Next-generation Circos for data visualization and interp	oretation
License MIT	
Encoding UTF-8	
LazyData true	
<b>Depends</b> R (>= 3.1.0)	
Imports RColorBrewer, htmlwidgets, jsonlite, plyr, grDevices	
RoxygenNote 7.1.0	
Suggests knitr, rmarkdown	
VignetteBuilder knitr	
Vignette Bullut - Killu	
R topics documented:	
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rNGCircos-shiny	
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rNGCircosBubble	
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arcExample

Arc plot example data

# Description

The data is in matrix with row names

# Usage

arcExample

# **Format**

A data frame with 7 columns:

chr chromosome

start start position

end end position

color color

des description

link hyperlink

bubbleExample 3

bubbleExample

Bubble plot example data

# Description

The data is in matrix with row names

# Usage

bubbleExample

## **Format**

A data frame with 8 columns:

chr chromosome

start start position

end end position

name name for description

value value

color specified color for bubble

layer layer number

html The external html language

chordExample

Chord plot example data

# **Description**

The data is in matrix with row names

# Usage

chordExample

#### **Format**

A data frame in which each value represents the relationship from a column to a row:

column name the name for each arc

row the order and number is same as column, representing the same items

4 geneExample

cnvExample

Cnv module example data

# Description

The data is in matrix with row names

#### Usage

cnvExample

#### **Format**

A data frame with 7 columns:

chr chromosome

start start position

end end position

value value

link hyperlink for cnv

color color

html The external html language

geneExample

Gene plot example data

# Description

The data is in matrix with row names

# Usage

geneExample

#### **Format**

A data frame with 8 columns:

chr chromosome

strand strand, - or +

start start position

end end position

type region type, gene or utr or cds

name name for description

link hyperlink for this region

heatmapExample 5

heatmapExample

Heatmap plot example data

# Description

The data is in matrix with row names

## Usage

heatmapExample

#### **Format**

A data frame with 7 columns:

chr chromosome
start start position

end end position

name name for description

value value

layer layer number

html The external html language

histogramExample

Histogram plot example data

# Description

The data is in matrix with row names

## Usage

histogramExample

#### **Format**

A data frame with 7 columns:

chr chromosome

start start position

end end position

name name for description

link hyperlink

value value

6 linkExample

lineExample

Line plot example data

# Description

The data is in matrix with row names

# Usage

lineExample

#### **Format**

A data frame with 5 columns:

chr chromosome

pos position

des description

value value

html The external html language

linkExample

Link plot example data

## **Description**

The data is in matrix with row names

# Usage

linkExample

#### **Format**

A data frame with 11 columns:

g1chr first chromosome

glstart first start position

glend first end position

g2chr second chromosome

g2start second start position

g2end second end position

glname first name

g2name second name

fusion fusion name

link hyperlink for link line

1ollipopExample 7

lollipopExample

Lollipop plot example data

# **Description**

The data is in matrix with row names

#### Usage

```
lollipopExample
```

#### **Format**

```
A data frame with 12 columns:
```

```
protein protein name
```

chr chromosome

pos position

strand strand, - or +

CancerTypeNumber Cancer type number

color color

link hyperlink

Consequence consequence

AA\_pos AA\_pos

AA\_change AA\_change

type type for mutation, Hetero or Homo

html The external html language

rNGCircos

rNGCircos

# Description

A R packages based on Next Generation Circos

## Usage

```
rNGCircos(
  moduleList = rNGCircosModuleList(),
  genome = "hg19",
  genome2 = "hg19",
  genomeFillColor = "Spectral",
  chrPad = 0.02,
  width = NULL,
  height = NULL,
  innerRadius = 216,
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```
outerRadius = 240,
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BUBBLEMouseOverTooltipsPosition = "absolute",
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BUBBLEMouseOverTooltipsBorderStyle = "solid",
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LINEMouseOverTooltipsHtml = " ",
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WIGMouseOverLineStrokeColor = "none",
WIGMouseOverLineStrokeWidth = "none",
WIGMouseOverFillColor = "none",
WIGMouseOverTooltipsSetting = "style1",
WIGMouseOverTooltipsHtml = " ",
WIGMouseOverTooltipsPosition = "absolute",
```

```
WIGMouseOverTooltipsBackgroundColor = "white",
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WIGMouseOverTooltipsOpacity = 1,
SCATTERxlink = FALSE,
SCATTERMouseEvent = TRUE,
SCATTERMouseClickDisplay = FALSE,
SCATTERMouseClickColor = "red",
SCATTERMouseClickCircleSize = 2,
SCATTERMouseClickCircleOpacity = 1,
SCATTERMouseClickCircleStrokeColor = "none",
SCATTERMouseClickCircleStrokeWidth = "none",
SCATTERMouseClickTextFromData = "fourth",
SCATTERMouseClickTextOpacity = 1,
SCATTERMouseClickTextColor = "red",
SCATTERMouseClickTextSize = 8,
SCATTERMouseClickTextPostionX = 1,
SCATTERMouseClickTextPostionY = 10,
SCATTERMouseClickTextDrag = TRUE,
SCATTERMouseDownDisplay = FALSE,
SCATTERMouseDownColor = "red",
SCATTERMouseDownCircleSize = 2,
SCATTERMouseDownCircleOpacity = 1,
SCATTERMouseDownCircleStrokeColor = "none",
SCATTERMouseDownCircleStrokeWidth = "none",
SCATTERMouseEnterDisplay = FALSE,
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SCATTERMouseEnterCircleSize = 2,
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SCATTERMouseLeaveCircleStrokeColor = "none",
SCATTERMouseLeaveCircleStrokeWidth = "none",
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SCATTERMouseMoveCircleOpacity = 1,
SCATTERMouseMoveCircleStrokeColor = "none",
SCATTERMouseMoveCircleStrokeWidth = "none",
SCATTERMouseOutDisplay = FALSE,
SCATTERMouseOutAnimationTime = 500,
SCATTERMouseOutColor = "red"
SCATTERMouseOutCircleSize = 2,
SCATTERMouseOutCircleOpacity = 1,
SCATTERMouseOutCircleStrokeColor = "none",
SCATTERMouseOutCircleStrokeWidth = "none",
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```
SCATTERMouseUpDisplay = FALSE,
SCATTERMouseUpColor = "red",
SCATTERMouseUpCircleSize = 2,
SCATTERMouseUpCircleOpacity = 1,
SCATTERMouseUpCircleStrokeColor = "none",
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SCATTERMouseOverDisplay = FALSE,
SCATTERMouseOverColor = "red",
SCATTERMouseOverCircleSize = 2,
SCATTERMouseOverCircleOpacity = 1,
SCATTERMouseOverCircleStrokeColor = "none",
SCATTERMouseOverCircleStrokeWidth = "none",
SCATTERMouseOverTooltipsSetting = "style1",
SCATTERMouseOverTooltipsHtml = " ",
SCATTERMouseOverTooltipsPosition = "absolute",
SCATTERMouseOverTooltipsBackgroundColor = "white",
SCATTERMouseOverTooltipsBorderStyle = "solid",
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SCATTERMouseOverTooltipsOpacity = 1,
ARCxlink = FALSE,
ARCMouseEvent = TRUE,
ARCMouseClickDisplay = FALSE,
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ARCMouseClickArcStrokeColor = "none",
ARCMouseClickArcStrokeWidth = "none",
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ARCMouseClickTextOpacity = 1,
ARCMouseClickTextColor = "red",
ARCMouseClickTextSize = 8,
ARCMouseClickTextPostionX = 1,
ARCMouseClickTextPostionY = 10,
ARCMouseClickTextDrag = TRUE,
ARCMouseDownDisplay = FALSE,
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ARCMouseDownArcStrokeWidth = "none",
ARCMouseEnterDisplay = FALSE,
ARCMouseEnterColor = "red",
ARCMouseEnterArcOpacity = 1,
ARCMouseEnterArcStrokeColor = "none",
ARCMouseEnterArcStrokeWidth = "none",
ARCMouseLeaveDisplay = FALSE,
ARCMouseLeaveColor = "red",
ARCMouseLeaveArcOpacity = 1,
ARCMouseLeaveArcStrokeColor = "none",
ARCMouseLeaveArcStrokeWidth = "none",
ARCMouseMoveDisplay = FALSE,
ARCMouseMoveColor = "red",
```

```
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ARCMouseMoveArcStrokeWidth = "none",
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ARCMouseOutAnimationTime = 500,
ARCMouseOutColor = "red",
ARCMouseOutArcOpacity = 1,
ARCMouseOutArcStrokeColor = "none",
ARCMouseOutArcStrokeWidth = "none",
ARCMouseUpDisplay = FALSE,
ARCMouseUpColor = "red",
ARCMouseUpArcOpacity = 1,
ARCMouseUpArcStrokeColor = "none",
ARCMouseUpArcStrokeWidth = "none",
ARCMouseOverDisplay = FALSE,
ARCMouseOverColor = "red",
ARCMouseOverArcOpacity = 1,
ARCMouseOverArcStrokeColor = "none",
ARCMouseOverArcStrokeWidth = "none",
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ARCMouseOverTooltipsHtml = " ",
ARCMouseOverTooltipsPosition = "absolute",
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ARCMouseOverTooltipsBorderStyle = "solid",
ARCMouseOverTooltipsBorderWidth = 0,
ARCMouseOverTooltipsPadding = "3px",
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ARCMouseOverTooltipsOpacity = 1,
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GENEMouseEvent = TRUE,
GENEMouseClickDisplay = FALSE,
GENEMouseClickColor = "red",
GENEMouseClickArcOpacity = 1,
GENEMouseClickArcStrokeColor = "none",
GENEMouseClickArcStrokeWidth = "none",
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GENEMouseClickTextOpacity = 1,
GENEMouseClickTextColor = "red",
GENEMouseClickTextSize = 8,
GENEMouseClickTextPostionX = 1,
GENEMouseClickTextPostionY = 10,
GENEMouseClickTextDrag = TRUE,
GENEMouseDownDisplay = FALSE,
GENEMouseDownColor = "red",
GENEMouseDownArcOpacity = 1,
GENEMouseDownArcStrokeColor = "none",
GENEMouseDownArcStrokeWidth = "none",
GENEMouseEnterDisplay = FALSE,
GENEMouseEnterColor = "red",
GENEMouseEnterArcOpacity = 1,
GENEMouseEnterArcStrokeColor = "none",
GENEMouseEnterArcStrokeWidth = "none",
```

```
GENEMouseLeaveDisplay = FALSE,
GENEMouseLeaveColor = "red",
GENEMouseLeaveArcOpacity = 1,
GENEMouseLeaveArcStrokeColor = "none",
GENEMouseLeaveArcStrokeWidth = "none",
GENEMouseMoveDisplay = FALSE,
GENEMouseMoveColor = "red",
GENEMouseMoveArcOpacity = 1,
GENEMouseMoveArcStrokeColor = "none",
GENEMouseMoveArcStrokeWidth = "none",
GENEMouseOutDisplay = FALSE,
GENEMouseOutAnimationTime = 500,
GENEMouseOutColor = "red",
GENEMouseOutArcOpacity = 1,
GENEMouseOutArcStrokeColor = "none",
GENEMouseOutArcStrokeWidth = "none",
GENEMouseUpDisplay = FALSE,
GENEMouseUpColor = "red",
GENEMouseUpArcOpacity = 1,
GENEMouseUpArcStrokeColor = "none",
GENEMouseUpArcStrokeWidth = "none",
GENEMouseOverDisplay = FALSE,
GENEMouseOverColor = "red",
GENEMouseOverArcOpacity = 1,
GENEMouseOverArcStrokeColor = "none",
GENEMouseOverArcStrokeWidth = "none",
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GENEMouseOverTooltipsBackgroundColor = "white",
GENEMouseOverTooltipsBorderStyle = "solid",
GENEMouseOverTooltipsBorderWidth = 0,
GENEMouseOverTooltipsPadding = "3px",
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GENEMouseOverTooltipsOpacity = 1,
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LOLLIPOPMouseClickDisplay = FALSE,
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LOLLIPOPMouseClickCircleOpacity = 1,
LOLLIPOPMouseClickCircleStrokeColor = "none",
LOLLIPOPMouseClickCircleStrokeWidth = "none",
LOLLIPOPMouseClickTextFromData = "fourth",
LOLLIPOPMouseClickTextOpacity = 1,
LOLLIPOPMouseClickTextColor = "red",
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LOLLIPOPMouseClickTextPostionY = 10,
LOLLIPOPMouseClickTextDrag = TRUE,
LOLLIPOPMouseDownDisplay = FALSE,
LOLLIPOPMouseDownColor = "red",
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```
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LOLLIPOPMouseDownCircleOpacity = 1,
LOLLIPOPMouseDownCircleStrokeColor = "none",
LOLLIPOPMouseDownCircleStrokeWidth = "none",
LOLLIPOPMouseEnterDisplay = FALSE,
LOLLIPOPMouseEnterColor = "red",
LOLLIPOPMouseEnterCircleSize = 2,
LOLLIPOPMouseEnterCircleOpacity = 1,
LOLLIPOPMouseEnterCircleStrokeColor = "none",
LOLLIPOPMouseEnterCircleStrokeWidth = "none",
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LOLLIPOPMouseLeaveColor = "red",
LOLLIPOPMouseLeaveCircleSize = 2,
LOLLIPOPMouseLeaveCircleOpacity = 1,
LOLLIPOPMouseLeaveCircleStrokeColor = "none",
LOLLIPOPMouseLeaveCircleStrokeWidth = "none",
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LOLLIPOPMouseMoveColor = "red",
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LOLLIPOPMouseMoveCircleStrokeColor = "none",
LOLLIPOPMouseMoveCircleStrokeWidth = "none",
LOLLIPOPMouseOutDisplay = FALSE,
LOLLIPOPMouseOutAnimationTime = 500,
LOLLIPOPMouseOutColor = "red",
LOLLIPOPMouseOutCircleSize = 2,
LOLLIPOPMouseOutCircleOpacity = 1,
LOLLIPOPMouseOutCircleStrokeColor = "none",
LOLLIPOPMouseOutCircleStrokeWidth = "none",
LOLLIPOPMouseUpDisplay = FALSE,
LOLLIPOPMouseUpColor = "red",
LOLLIPOPMouseUpCircleSize = 2,
LOLLIPOPMouseUpCircleOpacity = 1,
LOLLIPOPMouseUpCircleStrokeColor = "none",
LOLLIPOPMouseUpCircleStrokeWidth = "none",
LOLLIPOPMouseOverDisplay = FALSE,
LOLLIPOPMouseOverColor = "red",
LOLLIPOPMouseOverCircleSize = 2,
LOLLIPOPMouseOverCircleOpacity = 1,
LOLLIPOPMouseOverCircleStrokeColor = "none",
LOLLIPOPMouseOverCircleStrokeWidth = "none",
LOLLIPOPMouseOverTooltipsSetting = "style1",
LOLLIPOPMouseOverTooltipsHtml = " ",
LOLLIPOPMouseOverTooltipsPosition = "absolute",
LOLLIPOPMouseOverTooltipsBackgroundColor = "white",
LOLLIPOPMouseOverTooltipsBorderStyle = "solid",
LOLLIPOPMouseOverTooltipsBorderWidth = 0,
LOLLIPOPMouseOverTooltipsPadding = "3px"
LOLLIPOPMouseOverTooltipsBorderRadius = "3px",
LOLLIPOPMouseOverTooltipsOpacity = 1,
elementId = NULL,
. . .
```

)

#### **Arguments**

moduleList Module list displayed in plot.

genome Could be either 'hg19', which is defaultly set to use chromosomes of hg19, or a

list of chromosomes with length, for example, list("chr1"=100,"chr2"=200).

genome 2 Second genome when compare module is applied, format is same as genome

genomeFillColor

Could be either a color palette from RColorBrewer, or a list of color name, for

example, list("yellow","rgb(1,255,255)")

chrPad Distance between each chromosome, default is 0.04

width, height The width and height for svg element, could be px or percent or auto.

innerRadius Default 216, Inner radius of chromosome outerRadius Default 240, Outer radius of chromosome

svgClassName The svg class name

 ${\tt displayGenomeBorder}, \ {\tt genomeBorderColor}, \ {\tt genomeBorderSize}$ 

Should the reference genome have borders?

genome Ticks Display, genome Ticks Len, genome Ticks Color, genome Ticks Text Size, genome Ticks Text Color, genome Tic

Whether display the ticks for chromosome panel. Other parameters only works when genomeTicksDisplay is TRUE and their details are available on document.

genomeLabelDisplay, genomeLabelTextSize, genomeLabelTextColor, genomeLabelDx, genomeLabelDy

Whether display the label for chromosome panel. Other parameters only works when genomeTicksDisplay is TRUE and their details are available on document.

compareEvent Default False, open/not COMPARE module

 ${\tt compare Event Group Gap Rate}$ 

Default 0.1, control the two-side gap rate on each group of genome

compareEventGroupDistance

Default 0, distance between two groups of genome

zoom Whether or not the plot is zoomable?

TEXTModuleDragEvent

Are text annotations draggable?

CNVxlink Default False, add/not xlink for CNV module

CNVMouseEvent Default True, open/not open mouse event of CNV module

CNVMouseClickDisplay

Default False, show/not the tooltip when mouse click on a CNV point.

CNVMouseClickColor

Color when mouse clicking

CNVMouseClickArcOpacity

Arc opacity when mouse clicking the element

 ${\tt CNVMouseClickArcStrokeColor}$ 

Arc stroke color when mouse clicking the element

 ${\tt CNVMouseClickArcStrokeWidth}$ 

Arc stroke width when mouse clicking the element

 ${\tt CNVMouseClickTextFromData}$ 

Text column when mouse clicking the element

CNVMouseClickTextOpacity

Text opacity when mouse clicking the element

 ${\tt CNVMouseClickTextColor}$ 

Text color when mouse clicking the element

 ${\tt CNVMouseClickTextSize}$ 

Text size when mouse clicking the element

CNVMouseClickTextPostionX, CNVMouseClickTextPostionY

Text coordinates when mouse clicking the element

CNVMouseClickTextDrag

Whether text is draggable when mouse clicking the element

CNVMouseDownDisplay

Default False, show/not the tooltip when mouse click down a CNV point.

CNVMouseDownColor

Color when mouse moving down the element

CNVMouseDownArcOpacity

Arc opacity when mouse moving down the element

CNVMouseDownArcStrokeColor

Arc stroke color when mouse moving down the element

CNVMouseDownArcStrokeWidth

Arc stroke width when mouse moving down the element

CNVMouseEnterDisplay

Default False, show/not the tooltip when mouse mover over a CNV point.

CNVMouseEnterColor

Color when mouse entering the element

CNVMouseEnterArcOpacity

Arc opacity when mouse entering the element

CNVMouseEnterArcStrokeColor

Arc stroke color when mouse entering the element

CNVMouseEnterArcStrokeWidth

Arc stroke width when mouse entering the element

CNVMouseLeaveDisplay

Default False, show/not the tooltip when mouse mover leave a CNV point.

CNVMouseLeaveColor

Color when mouse leaving the element

 ${\tt CNVMouseLeaveArcOpacity}$ 

Arc opacity when mouse leaving the element

CNVMouseLeaveArcStrokeColor

Arc stroke color when mouse leaving the element

 ${\tt CNVMouseLeaveArcStrokeWidth}$ 

Arc stroke width when mouse leaving the element

 ${\tt CNVMouseMoveDisplay}$ 

Default False, show/not the tooltip when mouse move into a CNV point.

CNVMouseMoveColor

Color when mouse moving in the element

CNVMouseMoveArcOpacity

Arc opacity when mouse moving in the element

CNVMouseMoveArcStrokeColor

Arc stroke color when mouse moving in the element

CNVMouseMoveArcStrokeWidth

Arc stroke width when mouse moving in the element

CNVMouseOutDisplay

Defalut False, hide/not tooltip when mouse is not hovering a CNV point anymore

CNVMouseOutAnimationTime

Animation time when mouse moving out the element

CNVMouseOutColor

Color when mouse moving out the element

CNVMouseOutArcOpacity

Arc opacity when mouse moving out the element

CNVMouseOutArcStrokeColor

Arc stroke color when mouse moving out the element

CNVMouseOutArcStrokeWidth

Arc stroke width when mouse moving out the element

CNVMouseUpDisplay

Default False, show/not the tooltip when mouse click up a CNV point.

CNVMouseUpColor

Color when mouse moving up the element

CNVMouseUpArcOpacity

Arc opacity when mouse clicking the element

 ${\tt CNVMouseUpArcStrokeColor}$ 

Arc stroke color when mouse clicking the element

CNVMouseUpArcStrokeWidth

Arc stroke width when mouse clicking the element

CNVMouseOverDisplay

Default False, show/not the tooltip when mouse hover on a CNV point.

CNVMouseOverColor

Color when mouse moving over the element

CNVMouseOverArcOpacity

Arc opacity when mouse moving over the element

CNVMouseOverArcStrokeColor

Arc stroke color when mouse moving over the element

 ${\tt CNVMouseOverArcStrokeWidth}$ 

Arc stroke width when mouse moving over the element

CNVMouseOverTooltipsSetting

Default "style1"

 ${\tt CNVMouseOverTooltipsHtml}$ 

Default " "

 ${\tt CNVMouseOverTooltipsPosition}$ 

Default "absolute"

 ${\tt CNVMouseOverTooltipsBackgroundColor}$ 

Default "white"

 ${\tt CNVMouseOverTooltipsBorderStyle}$ 

Default "solid"

CNVMouseOverTooltipsBorderWidth

Default 0

 ${\tt CNVMouseOverTooltipsPadding}$ 

Default "3px"

 ${\tt CNVMouseOverTooltipsBorderRadius}$ 

Default "3px"

CNVMouseOverTooltipsOpacity

Default 0.8

**HEATMAPMouseEvent** 

Default True, open/not open mouse event of HEATMAP module

HEATMAPMouseClickDisplay

Default False, show/not the tooltip when mouse click on a HEATMAP point.

HEATMAPMouseClickColor

Color when mouse clicking

 ${\tt HEATMAPMouseClickOpacity}$ 

Opacity when mouse clicking

HEATMAPMouseClickStrokeColor

Stroke color when mouse clicking

HEATMAPMouseClickStrokeWidth

Stroke width when mouse clicking

**HEATMAPMouseDownDisplay** 

Default False, show/not the tooltip when mouse click down a HEATMAP point.

HEATMAPMouseDownColor

Color when mouse moving down the element

HEATMAPMouseDownOpacity

Opacity when mouse moving down the element

HEATMAPMouseDownStrokeColor

Stroke color when mouse moving down the element

**HEATMAPMouseDownStrokeWidth** 

Stroke width when mouse moving down the element

**HEATMAPMouseEnterDisplay** 

Default False, show/not the tooltip when mouse mover over a HEATMAP point.

HEATMAPMouseEnterColor

Color when mouse entering the element

HEATMAPMouseEnterOpacity

Opacity when mouse entering the element

 ${\tt HEATMAPMouseEnterStrokeColor}$ 

Stroke color when mouse entering the element

**HEATMAPMouseEnterStrokeWidth** 

Stroke width when mouse entering the element

**HEATMAPMouseLeaveDisplay** 

Default False, show/not the tooltip when mouse mover leave a HEATMAP point.

**HEATMAPMouseLeaveColor** 

Color when mouse leaving the element

HEATMAPMouseLeaveOpacity

Opacity when mouse leaving the element

 ${\tt HEATMAPMouseLeaveStrokeColor}$ 

Stroke color when mouse leaving the element

 ${\tt HEATMAPMouseLeaveStrokeWidth}$ 

Stroke width when mouse leaving the element

**HEATMAPMouseMoveDisplay** 

Default False, show/not the tooltip when mouse move into a HEATMAP point.

 ${\it HEATMAPMouseMoveColor}$ 

Color when mouse moving in the element

HEATMAPMouseMoveOpacity

Opacity when mouse moving in the element

**HEATMAPMouseMoveStrokeColor** 

Stroke color when mouse moving in the element

 ${\tt HEATMAPMouseMoveStrokeWidth}$ 

Stroke width when mouse moving in the element

HEATMAPMouseOutDisplay

Defalut False, hide/not tooltip when mouse is not hovering a HEATMAP point anymore.

 ${\tt HEATMAPMouseOutAnimationTime}$ 

Animation time when mouse moving out the element

HEATMAPMouseOutColor

Color when mouse moving out the element

HEATMAPMouseOutOpacity

Opacity when mouse moving out the element

 ${\tt HEATMAPMouseOutStrokeColor}$ 

Stroke color when mouse moving out the element

HEATMAPMouseOutStrokeWidth

Stroke width when mouse moving out the element

**HEATMAPMouseUpDisplay** 

Default False, show/not the tooltip when mouse click up a HEATMAP point.

HEATMAPMouseUpColor

Color when mouse moving up the element

HEATMAPMouseUpOpacity

Opacity when mouse moving up the element

**HEATMAPMouseUpStrokeColor** 

Stroke color when mouse moving up the element

**HEATMAPMouseUpStrokeWidth** 

Stroke width when mouse moving up the element

HEATMAPMouseOverDisplay

Default False, show/not the tooltip when mouse hover on a HEATMAP point.

HEATMAPMouseOverColor

Color when mouse moving over the element

 ${\tt HEATMAPMouseOverOpacity}$ 

Opacity when mouse moving over the element

 ${\tt HEATMAPMouseOverStrokeColor}$ 

Stroke color when mouse moving over the element

HEATMAPMouseOverStrokeWidth

Stroke width when mouse moving over the element

HEATMAPMouseOverTooltipsSetting

Default "style1"

HEATMAPMouseOverTooltipsHtml

Default " "

 ${\tt HEATMAPMouseOverTooltipsPosition}$ 

Default "absolute"

 ${\tt HEATMAP Mouse Over Tool tips Background Color}$ 

Default "white"

 ${\tt HEATMAPMouseOverTooltipsBorderStyle}$ 

Default "solid"

 ${\tt HEATMAPMouseOverTooltipsBorderWidth}$ 

Default 0

HEATMAPMouseOverTooltipsPadding

Default "3px"

HEATMAPMouseOverTooltipsBorderRadius

Default "3px"

HEATMAPMouseOverTooltipsOpacity

Default 0.8

BUBBLExlink Default False, add/not xlink for BUBBLE module

BUBBLEMouseEvent

Default True, open/not open mouse event of BUBBLE module

BUBBLEMouseClickDisplay

Default False, show/not the tooltip when mouse click on a BUBBLE point.

BUBBLEMouseClickColor

Color when mouse clicking

BUBBLEMouseClickOpacity

Opacity when mouse clicking

BUBBLEMouseClickStrokeColor

Stroke color when mouse clicking

BUBBLEMouseClickStrokeWidth

Stroke width when mouse clicking

BUBBLEMouseDownDisplay

Default False, show/not the tooltip when mouse click down a BUBBLE point.

BUBBLEMouseDownColor

Color when mouse moving down the element

 ${\tt BUBBLEMouseDownOpacity}$ 

Opacity when mouse moving down the element

BUBBLEMouseDownStrokeColor

Stroke color when mouse moving down the element

BUBBLEMouseDownStrokeWidth

Stroke width when mouse moving down the element

BUBBLEMouseEnterDisplay

Default False, show/not the tooltip when mouse mover over a BUBBLE point.

BUBBLEMouseEnterColor

Color when mouse entering the element

 ${\tt BUBBLEMouseEnterOpacity}$ 

Opacity when mouse entering the element

 ${\tt BUBBLEMouseEnterStrokeColor}$ 

Stroke color when mouse entering the element

BUBBLEMouseEnterStrokeWidth

Stroke width when mouse entering the element

BUBBLEMouseLeaveDisplay

Default False, show/not the tooltip when mouse mover leave a BUBBLE point.

BUBBLEMouseLeaveColor

Color when mouse leaving the element

BUBBLEMouseLeaveOpacity

Opacity when mouse leaving the element

 ${\tt BUBBLEMouseLeaveStrokeColor}$ 

Stroke color when mouse leaving the element

 ${\tt BUBBLEMouseLeaveStrokeWidth}$ 

Stroke width when mouse leaving the element

BUBBLEMouseMoveDisplay

Default False, show/not the tooltip when mouse move into a BUBBLE point.

BUBBLEMouseMoveColor

Color when mouse moving in the element

BUBBLEMouseMoveOpacity

Opacity when mouse moving in the element

BUBBLEMouseMoveStrokeColor

Stroke color when mouse moving in the element

BUBBLEMouseMoveStrokeWidth

Stroke width when mouse moving in the element

BUBBLEMouseOutDisplay

Defalut False, hide/not tooltip when mouse is not hovering a BUBBLE point anymore.

BUBBLEMouseOutAnimationTime

Animation time when mouse moving out the element

BUBBLEMouseOutColor

Color when mouse moving out the element

BUBBLEMouseOutOpacity

Opacity when mouse moving out the element

 ${\tt BUBBLEMouseOutStrokeColor}$ 

Stroke color when mouse moving out the element

BUBBLEMouseOutStrokeWidth

Stroke width when mouse moving out the element

BUBBLEMouseUpDisplay

Default False, show/not the tooltip when mouse click up a BUBBLE point.

BUBBLEMouseUpColor

Color when mouse moving up the element

BUBBLEMouseUpOpacity

Opacity when mouse moving up the element

BUBBLEMouseUpStrokeColor

Stroke color when mouse moving up the element

BUBBLEMouseUpStrokeWidth

Stroke width when mouse moving up the element

BUBBLEMouseOverDisplay

Default False, show/not the tooltip when mouse hover on a BUBBLE point.

BUBBLEMouseOverColor

Color when mouse moving over the element

 ${\tt BUBBLEMouseOverOpacity}$ 

Opacity when mouse moving over the element

BUBBLEMouseOverStrokeColor

Stroke color when mouse moving over the element

BUBBLEMouseOverStrokeWidth

Stroke width when mouse moving over the element

 ${\tt BUBBLEMouseOverTooltipsSetting}$ 

Default "style1"

BUBBLEMouseOverTooltipsHtml

Default " "

BUBBLEMouseOverTooltipsPosition

Default "absolute"

 ${\tt BUBBLEMouseOverTooltipsBackgroundColor}$ 

Default "white"

 ${\tt BUBBLEMouseOverTooltipsBorderStyle}$ 

Default "solid"

 ${\tt BUBBLEMouseOverTooltipsBorderWidth}$ 

Default 0

BUBBLEMouseOverTooltipsPadding

Default "3px"

BUBBLEMouseOverTooltipsBorderRadius

Default "3px"

BUBBLEMouseOverTooltipsOpacity

Default 0.8

SNPxlink Default False, add/not xlink for SNP module

SNPMouseEvent Default True, open/not open mouse event of SNP module

 ${\sf SNPMouseCombinationEvent}$ 

Default False, open/not COMBINATION module for SNP module

SNPMouseCombinationImageDisplay

Defalut False, open/not image display in COMBINATION module for SNP

module

 ${\tt SNPMouseCombinationImageTitle}$ 

Title of the image

 ${\tt SNPMouseCombinationImageTitleSize, SNPMouseCombinationImageTitleWeight, SNPMouseCombinationImageTitleSize, SNPMouseCombinationImageTitleWeight, SNPMouseCombinationImageTitleSize, SNPMouseCombinationImageTitleWeight, SNPMouseComb$ 

Size, weight and color of the title

 ${\tt SNPMouseCombinationImagePositionX, SNPMouseCombinationImagePositionY}$ 

Coordinates for image

SNPMouseCombinationImageHeight, SNPMouseCombinationImageWidth

Height and width of image

 ${\tt SNPMouseCombinationGraphDisplay}$ 

Defalut False, open/not graph display in COMBINATION module for SNP mod-

ule

 ${\tt SNPMouseCombinationGraphTitle}$ 

Title of the graph

SNPMouseCombinationGraphTitleSize, SNPMouseCombinationGraphTitleWeight, SNPMouseCombinationGraphT

Size, weight and color of the title

SNPMouseCombinationGraphType

Type of graph

 ${\tt SNPMouseCombinationGraphPositionX, SNPMouseCombinationGraphPositionY}$ 

Coordinates for graph

 ${\tt SNPMouseCombinationGraphHeight, SNPMouseCombinationGraphWidth}$ 

Height and width for graph

 ${\tt SNPMouseCombinationGraphHistogramBarColor}$ 

Bar color of histogram graph

 ${\tt SNPMouseCombinationGraphHistogramPadding}$ 

Padding between bar of histogram graph

 ${\tt SNPMouseCombinationGraphHistogramPositionCorrect X}$ 

Correction distance of X axis in histogram

 ${\tt SNPMouseCombinationGraphPieAutoColor}$ 

Whether use auto color for pie graph or not

 ${\tt SNPMouseCombinationGraphPieColor}$ 

Color for pie graph if auto color is false

SNPMouseCombinationGraphPieSize

Size of pie graph

 ${\tt SNPMouseCombinationGraphPieStroke}$ 

Whether each pie has a stroke or not

 ${\tt SNPMouseCombinationGraphPieStrokeColor, SNPMouseCombinationGraphPieStrokeWidth}$ 

The stroke color and width for pie graph

 ${\tt SNPMouseCombinationGraphPieOpacity}$ 

Opacity for pie graph

SNPMouseCombinationGraphLineType, SNPMouseCombinationGraphLineColor, SNPMouseCombinationGraphLine Line type, color and width for line graph

SNPMouseCombinationGraphLinePoint

Whether display the broken point in line graph

 ${\tt SNPMouseCombinationGraphLinePointSize}$ 

Size of broken point

 ${\tt SNPMouseCombinationGraphLinePointAutoColor}$ 

Whether display the broken point in auto color

 ${\tt SNPMouseCombinationGraphLinePointColor}$ 

Color for broken point if auto color is false

 ${\tt SNPMouseCombinationGraphLinePointStroke}$ 

Whether display the broken point stroke

 ${\tt SNPMouseCombinationGraphLinePointStrokeColor, SNPMouseCombinationGraphLinePointStrokeWidth} \\$ 

The stroke color and width for broken point

 ${\tt SNPMouseCombinationGraphLinePointOpacity}$ 

Opacity for broken line

 ${\tt SNPMouseCombinationGraphLinePositionCorrectX}$ 

Correction distance of X axis for line

The color, size and weight for text

 ${\tt SNPMouseCombinationTextDisplay}$ 

Defalut False, open/not text display in COMBINATION module for SNP mod-

SNPMouseCombinationTextColor, SNPMouseCombinationTextSize, SNPMouseCombinationTextWeight

 ${\tt SNPMouseCombinationTextPositionCorrectX, SNPMouseCombinationTextPositionCorrectY}$ 

The coordinates for text

SNPMouseClickDisplay

Default False, show/not the tooltip when mouse click on a SNP point.

SNPMouseClickColor

Color after clicking the element

SNPMouseClickCircleSize

Circle size after clicking the element

SNPMouseClickCircleOpacity

Opacity after clicking the element

 ${\tt SNPMouseClickCircleStrokeColor}$ 

Stroke color after clicking the element

SNPMouseClickCircleStrokeWidth

Stroke width after clicking the element

 ${\tt SNPMouseClickTextFromData}$ 

First, second, third, fourth column data click to show

SNPMouseClickTextOpacity

Text opacity after clicking the element

 ${\tt SNPMouseClickTextColor}$ 

Text color after clicking the element

 ${\tt SNPMouseClickTextSize}$ 

Text size after clicking the element

SNPMouseClickTextPostionX, SNPMouseClickTextPostionY

Text coordinate after clicking the element

SNPMouseClickTextDrag

Whether text is draggable for element

 ${\tt SNPMouseDownDisplay}$ 

Default False, show/not the tooltip when mouse click down a SNP point.

SNPMouseDownColor

Color after mouse moving down the element

SNPMouseDownCircleSize

Circle size after mouse moving down the element

SNPMouseDownCircleOpacity

Circle opacity after mouse moving down the element

 ${\tt SNPMouseDownCircleStrokeColor}$ 

Circle stroke color after mouse moving down the element

 ${\tt SNPMouseDownCircleStrokeWidth}$ 

Circle stroke width after mouse moving down the element

SNPMouseEnterDisplay

Default False, show/not the tooltip when mouse mover over a SNP point.

SNPMouseEnterColor

Color after mouse entering enter the element

 ${\tt SNPMouseEnterCircleSize}$ 

Circle size after mouse entering the element

SNPMouseEnterCircleOpacity

Circle opacity after mouse entering the element

 ${\tt SNPMouseEnterCircleStrokeColor}$ 

Circle stroke color after mouse entering the element

 ${\tt SNPMouseEnterCircleStrokeWidth}$ 

Circle stroke width after mouse entering the element

 ${\tt SNPMouseLeaveDisplay}$ 

Default False, show/not the tooltip when mouse mover leave a SNP point.

SNPMouseLeaveColor

Color after mouse leaving the element

 ${\tt SNPMouseLeaveCircleSize}$ 

Circle size after mouse leaving the element

SNPMouseLeaveCircleOpacity

Circle opacity after mouse leaving the element

 ${\tt SNPMouseLeaveCircleStrokeColor}$ 

Circle stroke color after mouse leaving the element

SNPMouseLeaveCircleStrokeWidth

Circle stroke width after mouse leaving the element

SNPMouseMoveDisplay

Default False, show/not the tooltip when mouse move into a SNP point.

SNPMouseMoveColor

Color after mouse moving in the element

SNPMouseMoveCircleSize

Circle size after mouse moving in the element

SNPMouseMoveCircleOpacity

Circle opacity after mouse moving in the element

 ${\tt SNPMouseMoveCircleStrokeColor}$ 

Circle stroke color after mouse moving in the element

 ${\tt SNPMouseMoveCircleStrokeWidth}$ 

Circle stroke width after mouse moving in the element

SNPMouseOutDisplay

Defalut False, hide/not tooltip when mouse is not hovering a SNP point anymore.

SNPMouseOutAnimationTime

Animation time when mouse moving over the element

SNPMouseOutColor

Color when mouse moving over the element

SNPMouseOutCircleSize

Circle size when mouse moving over the element

SNPMouseOutCircleOpacity

Opacity when mouse moving over the element

SNPMouseOutCircleStrokeColor

Stroke color when mouse moving over the element

 ${\tt SNPMouseOutCircleStrokeWidth}$ 

Stroke width when mouse moving over the element

SNPMouseUpDisplay

Default False, show/not the tooltip when mouse click up a SNP point.

SNPMouseUpColor

Color after mouse moving up the element

SNPMouseUpCircleSize

Circle size after mouse moving up the element

SNPMouseUpCircleOpacity

Circle opacity after mouse moving up the element

SNPMouseUpCircleStrokeColor

Circle stroke color after mouse moving up the element

 ${\tt SNPMouseUpCircleStrokeWidth}$ 

Circle stroke width after mouse moving up the element

SNPMouseOverDisplay

Default False, show/not the tooltip when mouse hover on a SNP point.

SNPMouseOverColor

Color after mouse moving over the element

SNPMouseOverCircleSize

Circle size after mouse moving over the element

SNPMouseOverCircleOpacity

Circle opacity after mouse moving over the element

SNPMouseOverCircleStrokeColor

Circle stroke color after mouse moving over the element

 ${\tt SNPMouseOverCircleStrokeWidth}$ 

Circle stroke width after mouse moving over the element

SNPMouseOverTooltipsSetting

Default "chr: "

SNPMouseOverTooltipsHtml

Default " "

 ${\tt SNPMouseOverTooltipsPosition}$ 

Position for tooltips when mouse moving over

 ${\tt SNPMouseOverTooltipsBackgroundColor}$ 

Background color for tooltips when mouse moving over

 ${\tt SNPMouseOverTooltipsBorderStyle}$ 

Border style for tooltips when mouse moving over

SNPMouseOverTooltipsBorderWidth

Border width for tooltips when mouse moving over

SNPMouseOverTooltipsPadding

Padding for tooltips when mouse moving over

SNPMouseOverTooltipsBorderRadius

Border radius for tooltips when mouse moving over

SNPMouseOverTooltipsOpacity

Opacity for tooltips when mouse moving over

LINKxlink Default False, add/not xlink for LINK module

LINKMouseEvent Default True, open/not open mouse event of LINK module

LINKMouseClickDisplay

Default False, show/not the tooltip when mouse click on a LINK point.

LINKMouseClickOpacity

Opacity when mouse clicking

LINKMouseClickStrokeColor

Stroke color when mouse clicking

LINKMouseClickStrokeWidth

Stroke width when mouse clicking

 ${\tt LINKMouseDownDisplay}$ 

Default False, show/not the tooltip when mouse click down a LINK point.

LINKMouseDownOpacity

Opacity when mouse moving down the element

 ${\tt LINKMouseDownStrokeColor}$ 

Stroke color when mouse moving down the element

LINKMouseDownStrokeWidth

Stroke width when mouse moving down the element

 ${\tt LINKMouseEnterDisplay}$ 

Default False, show/not the tooltip when mouse mover over a LINK point.

LINKMouseEnterOpacity

Opacity when mouse entering the element

LINKMouseEnterStrokeColor

Stroke color when mouse entering the element

LINKMouseEnterStrokeWidth

Stroke width when mouse entering the element

LINKMouseLeaveDisplay

Default False, show/not the tooltip when mouse mover leave a LINK point.

LINKMouseLeaveOpacity

Opacity when mouse leaving the element

LINKMouseLeaveStrokeColor

Stroke color when mouse leaving the element

LINKMouseLeaveStrokeWidth

Stroke width when mouse leaving the element

LINKMouseMoveDisplay

Default False, show/not the tooltip when mouse move into a LINK point.

LINKMouseMoveOpacity

Opacity when mouse moving in the element

LINKMouseMoveStrokeColor

Stroke color when mouse moving in the element

LINKMouseMoveStrokeWidth

Stroke width when mouse moving in the element

LINKMouseOutDisplay

Defalut False, hide/not tooltip when mouse is not hovering a LINK point anymore.

LINKMouseOutAnimationTime

Animation time when mouse moving out the element

LINKMouseOutOpacity

Opacity when mouse moving out the element

LINKMouseOutStrokeColor

Stroke color when mouse moving out the element

LINKMouseOutStrokeWidth

Stroke width when mouse moving out the element

LINKMouseUpDisplay

Default False, show/not the tooltip when mouse click up a LINK point.

LINKMouseUpOpacity

Opacity when mouse moving up the element

LINKMouseUpStrokeColor

Stroke color when mouse moving up the element

LINKMouseUpStrokeWidth

Stroke width when mouse moving up the element

LINKMouseOverDisplay

Default False, show/not the tooltip when mouse hover on a LINK point.

LINKMouseOverOpacity

Opacity when mouse moving over the element

LINKMouseOverStrokeColor

Stroke color when mouse moving over the element

 ${\tt LINKMouseOverStrokeWidth}$ 

Stroke width when mouse moving over the element

LINKMouseOverTooltipsSetting

Default "style1"

LINKMouseOverTooltipsHtml

Default " "

 ${\tt LINKMouseOverTooltipsPosition}$ 

Default "absolute"

LINKMouseOverTooltipsBackgroundColor

Default "white"

 ${\tt LINKMouseOverTooltipsBorderStyle}$ 

Default "solid"

LINKMouseOverTooltipsBorderWidth

Default 0

LINKMouseOverTooltipsPadding

Default "3px"

LINKMouseOverTooltipsBorderRadius

Default "3px"

LINKMouseOverTooltipsOpacity

Default 0.8

LINKLabelDragEvent

Defalut False, draggable for the label of LINK module

CHORDMouseEvent

Default True, open/not open mouse event of CHORD module

CHORDMouseFillColorExcluded

A type of color in character, chord in this color will be hided

CHORDMouseClickDisplay

Default False, show/not the tooltip when mouse click on a CHORD point.

CHORDMouseClickOpacity

Opacity when mouse clicking

 ${\tt CHORDMouseClickStrokeColor}$ 

Stroke color when mouse clicking

 ${\tt CHORDMouseClickStrokeWidth}$ 

Stroke width when mouse clicking

CHORDMouseDownDisplay

Default False, show/not the tooltip when mouse click down a CHORD point.

CHORDMouseDownOpacity

Opacity when mouse moving down the element

CHORDMouseDownStrokeColor

Stroke color when mouse moving down the element

CHORDMouseDownStrokeWidth

Stroke width when mouse moving down the element

CHORDMouseEnterDisplay

Default False, show/not the tooltip when mouse mover over a CHORD point.

 ${\tt CHORDMouseEnterOpacity}$ 

Opacity when mouse entering the element

CHORDMouseEnterStrokeColor

Stroke color when mouse entering the element

 ${\tt CHORDMouseEnterStrokeWidth}\\$ 

Stroke width when mouse entering the element

 ${\tt CHORDMouseLeaveDisplay}$ 

Default False, show/not the tooltip when mouse mover leave a CHORD point.

CHORDMouseLeaveOpacity

Opacity when mouse leaving the element

 ${\tt CHORDMouseLeaveStrokeColor}$ 

Stroke color when mouse leaving the element

CHORDMouseLeaveStrokeWidth

Stroke width when mouse leaving the element

CHORDMouseMoveDisplay

Default False, show/not the tooltip when mouse move into a CHORD point.

CHORDMouseMoveOpacity

Opacity when mouse moving in the element

 ${\tt CHORDMouseMoveStrokeColor}$ 

Stroke color when mouse moving in the element

 ${\tt CHORDMouseMoveStrokeWidth}$ 

Stroke width when mouse moving in the element

CHORDMouseOutDisplay

Defalut False, hide/not tooltip when mouse is not hovering a CHORD point anymore.

 ${\tt CHORDMouseOutAnimationTime}$ 

Animation time when mouse moving out the element

CHORDMouseOutOpacity

Opacity when mouse moving out the element

 ${\tt CHORDMouseOutStrokeColor}$ 

Stroke color when mouse moving out the element

CHORDMouseOutStrokeWidth

Stroke width when mouse moving out the element

CHORDMouseUpDisplay

Default False, show/not the tooltip when mouse click up a CHORD point.

CHORDMouseUpOpacity

Opacity when mouse moving up the element

 ${\tt CHORDMouseUpStrokeColor}$ 

Stroke color when mouse moving up the element

 ${\tt CHORDMouseUpStrokeWidth}$ 

Stroke width when mouse moving up the element

CHORDMouseOverDisplay

Default False, show/not the tooltip when mouse hover on a CHORD point.

CHORDMouseOverOpacity

Opacity when mouse moving over the element

 ${\tt CHORDMouseOverStrokeColor}$ 

Stroke color when mouse moving over the element

CHORDMouseOverStrokeWidth

Stroke width when mouse moving over the element

HISTOGRAMxlink Default False, add/not xlink for HISTOGRAM module

HISTOGRAMMouseEvent

Default True, open/not open mouse event of HISTOGRAM module

 ${\tt HISTOGRAMMouseClickDisplay}$ 

Default False, show/not the tooltip when mouse click on a HISTOGRAM point.

 ${\tt HISTOGRAMMouseClickColor}$ 

Color when mouse clicking

HISTOGRAMMouseClickOpacity

Opacity when mouse clicking

 ${\tt HISTOGRAMMouseClickStrokeColor}$ 

Stroke color when mouse clicking

HISTOGRAMMouseClickStrokeWidth

Stroke width when mouse clicking

 ${\tt HISTOGRAMMouseDownDisplay}$ 

Default False, show/not the tooltip when mouse click down a HISTOGRAM point.

HISTOGRAMMouseDownColor

Color when mouse moving down the element

HISTOGRAMMouseDownOpacity

Opacity when mouse moving up the element

HISTOGRAMMouseDownStrokeColor

Stroke color when mouse moving up the element

HISTOGRAMMouseDownStrokeWidth

Stroke width when mouse moving up the element

HISTOGRAMMouseEnterDisplay

Default False, show/not the tooltip when mouse mover over a HISTOGRAM point.

HISTOGRAMMouseEnterColor

Color when mouse entering the element

HISTOGRAMMouseEnterOpacity

Opacity when mouse entering the element

 ${\tt HISTOGRAMMouseEnterStrokeColor}$ 

Stroke color when mouse entering the element

 ${\tt HISTOGRAMMouseEnterStrokeWidth}$ 

Stroke width when mouse entering the element

 ${\tt HISTOGRAMMouseLeaveDisplay}$ 

Default False, show/not the tooltip when mouse mover leave a HISTOGRAM point.

 ${\tt HISTOGRAMMouseLeaveColor}$ 

Color when mouse leaving the element

 ${\tt HISTOGRAMMouseLeaveOpacity}$ 

Opacity when mouse leaving the element

 ${\tt HISTOGRAMMouseLeaveStrokeColor}$ 

Stroke color when mouse leaving the element

HISTOGRAMMouseLeaveStrokeWidth

Stroke width when mouse leaving the element

HISTOGRAMMouseMoveDisplay

Default False, show/not the tooltip when mouse move into a HISTOGRAM point.

HISTOGRAMMouseMoveColor

Color when mouse moving in the element

 ${\tt HISTOGRAMMouseMoveOpacity}$ 

Opacity when mouse moving in the element

HISTOGRAMMouseMoveStrokeColor

Stroke color when mouse moving in the element

HISTOGRAMMouseMoveStrokeWidth

Stroke width when mouse moving in the element

HISTOGRAMMouseOutDisplay

Defalut False, hide/not tooltip when mouse is not hovering a HISTOGRAM point anymore.

HISTOGRAMMouseOutAnimationTime

Animation time when mouse moving out the element

HISTOGRAMMouseOutColor

Color when mouse moving out the element

HISTOGRAMMouseOutOpacity

Opacity when mouse moving out the element

HISTOGRAMMouseOutStrokeColor

Stroke color when mouse moving out the element

 ${\tt HISTOGRAMMouseOutStrokeWidth}$ 

Stroke width when mouse moving out the element

HISTOGRAMMouseUpDisplay

Default False, show/not the tooltip when mouse click up a HISTOGRAM point.

HISTOGRAMMouseUpColor

Color when mouse moving up the element

HISTOGRAMMouseUpOpacity

Opacity when mouse moving up the element

HISTOGRAMMouseUpStrokeColor

Stroke color when mouse moving up the element

HISTOGRAMMouseUpStrokeWidth

Stroke width when mouse moving up the element

HISTOGRAMMouseOverDisplay

Default False, show/not the tooltip when mouse hover on a HISTOGRAM point.

HISTOGRAMMouseOverColor

Color when mouse moving over the element

 ${\tt HISTOGRAMMouseOverOpacity}$ 

Opacity when mouse moving over the element

HISTOGRAMMouseOverStrokeColor

Stroke color when mouse moving over the element

HISTOGRAMMouseOverStrokeWidth

Stroke width when mouse moving over the element

 ${\tt HISTOGRAMMouseOverTooltipsSetting}$ 

Default "style1"

HISTOGRAMMouseOverTooltipsHtml

Default " "

HISTOGRAMMouseOverTooltipsPosition

Default "absolute"

 ${\tt HISTOGRAMMouseOverTooltipsBackgroundColor}$ 

Default "white"

 ${\tt HISTOGRAMMouseOverTooltipsBorderStyle}$ 

Default "solid"

 ${\tt HISTOGRAMMouseOverTooltipsBorderWidth}$ 

Default 0

 ${\tt HISTOGRAMMouseOverTooltipsPadding}$ 

Default "3px"

 ${\tt HISTOGRAMMouseOverTooltipsBorderRadius}$ 

Default "3px"

HISTOGRAMMouseOverTooltipsOpacity

Default 0.8

LINEMouseEvent Default True, open/not open mouse event of LINE module

LINEMouseClickDisplay

Default False, show/not the tooltip when mouse click on a LINE point.

LINEMouseClickLineOpacity

Line opacity when mouse clicking the element

LINEMouseClickLineStrokeColor

Stroke color when mouse clicking the element

LINEMouseClickLineStrokeWidth

Stroke width when mouse clicking the element

LINEMouseDownDisplay

Default False, show/not the tooltip when mouse click down a LINE point.

LINEMouseDownLineOpacity

Line opacity when mouse moving down the element

 ${\tt LINE Mouse Down Line Stroke Color}$ 

Stroke color when mouse moving down the element

LINEMouseDownLineStrokeWidth

Stroke width when mouse moving down the element

 ${\tt LINEMouseEnterDisplay}$ 

Default False, show/not the tooltip when mouse mover over a LINE point.

LINEMouseEnterLineOpacity

Line opacity when mouse entering the element

 ${\tt LINEMouseEnterLineStrokeColor}$ 

Stroke color when mouse entering the element

LINEMouseEnterLineStrokeWidth

Stroke width when mouse entering the element

LINEMouseLeaveDisplay

Default False, show/not the tooltip when mouse mover leave a LINE point.

LINEMouseLeaveLineOpacity

Line opacity when mouse leaving the element

LINEMouseLeaveLineStrokeColor

Stroke color when mouse leaving the element

LINEMouseLeaveLineStrokeWidth

Stroke width when mouse leaving the element

LINEMouseMoveDisplay

Default False, show/not the tooltip when mouse move into a LINE point.

 ${\tt LINE Mouse Move Line Opacity}$ 

Line opacity when mouse moving in the element

LINEMouseMoveLineStrokeColor

Stroke color when mouse moving in the element

 ${\tt LINE Mouse MoveLine Stroke Width}$ 

Stroke width when mouse moving in the element

LINEMouseOutDisplay

Defalut False, hide/not tooltip when mouse is not hovering a LINE point anymore.

LINEMouseOutAnimationTime

Animation time when mouse moving out the element

 ${\tt LINE Mouse OutLine Opacity}$ 

Line opacity when mouse moving out the element

LINEMouseOutLineStrokeColor

Stroke color when mouse moving out the element

 ${\tt LINE Mouse OutLine Stroke Width}$ 

Stroke width when mouse moving out the element

LINEMouseUpDisplay

Default False, show/not the tooltip when mouse click up a LINE point.

LINEMouseUpLineOpacity

Line opacity when mouse moving up the element

 ${\tt LINE Mouse UpLine Stroke Color}$ 

Stroke color when mouse moving up the element

LINEMouseUpLineStrokeWidth

Stroke width when mouse moving up the element

LINEMouseOverDisplay

Default False, show/not the tooltip when mouse hover on a LINE point.

LINEMouseOverLineOpacity

Line opacity when mouse moving over the element

LINEMouseOverLineStrokeColor

Stroke color when mouse moving over the element

LINEMouseOverLineStrokeWidth

Stroke width when mouse moving over the element

LINEMouseOverTooltipsSetting

Default "style1"

LINEMouseOverTooltipsHtml

Default " "

 ${\tt LINE Mouse Over Tool tips Position}$ 

Default "absolute"

 ${\tt LINE Mouse Over Tool tips Background Color}$ 

Default "white"

 ${\tt LINE Mouse Over Tool tips Border Style}$ 

Default "solid"

LINEMouseOverTooltipsBorderWidth

Default 0

LINEMouseOverTooltipsPadding

Default "3px"

LINEMouseOverTooltipsBorderRadius

Default "3px"

LINEMouseOverTooltipsOpacity

Default 0.8

WIGMouseEvent Default True, open/not open mouse event of WIG module

WIGMouseClickDisplay

Default False, show/not the tooltip when mouse click on a WIG point.

WIGMouseClickLineOpacity

Line opacity when mouse clicking the element

 ${\tt WIGMouseClickLineStrokeColor}$ 

Stroke color when mouse clicking the element

 ${\tt WIGMouseClickLineStrokeWidth}$ 

Stroke width when mouse clicking the element

WIGMouseClickFillColor

Filling color when mouse clicking the element

WIGMouseDownDisplay

Default False, show/not the tooltip when mouse click down a WIG point.

WIGMouseDownLineOpacity

Line opacity when mouse moving down the element

WIGMouseDownLineStrokeColor

Stroke color when mouse moving down the element

WIGMouseDownLineStrokeWidth

Stroke width when mouse moving down the element

WIGMouseDownFillColor

Filling color when mouse moving down the element

WIGMouseEnterDisplay

Default False, show/not the tooltip when mouse mover over a WIG point.

WIGMouseEnterLineOpacity

Line opacity when mouse entering the element

WIGMouseEnterLineStrokeColor

Stroke color when mouse entering the element

WIGMouseEnterLineStrokeWidth

Stroke width when mouse entering the element

WIGMouseEnterFillColor

Filling color when mouse entering the element

WIGMouseLeaveDisplay

Default False, show/not the tooltip when mouse mover leave a WIG point.

WIGMouseLeaveLineOpacity

Line opacity when mouse leaving the element

WIGMouseLeaveLineStrokeColor

Stroke color when mouse leaving the element

WIGMouseLeaveLineStrokeWidth

Stroke width when mouse leaving the element

WIGMouseLeaveFillColor

Filling color when mouse leaving the element

WIGMouseMoveDisplay

Default False, show/not the tooltip when mouse move into a WIG point.

WIGMouseMoveLineOpacity

Line opacity when mouse moving in the element

WIGMouseMoveLineStrokeColor

Stroke color when mouse moving in the element

WIGMouseMoveLineStrokeWidth

Stroke width when mouse moving in the element

WIGMouseMoveFillColor

Filling color when mouse leaving the element

WIGMouseOutDisplay

Defalut False, hide/not tooltip when mouse is not hovering a WIG point anymore.

WIGMouseOutAnimationTime

Animation time when mouse moving out the element

WIGMouseOutLineOpacity

Line opacity when mouse moving out the element

WIGMouseOutLineStrokeColor

Stroke color when mouse moving out the element

WIGMouseOutLineStrokeWidth

Stroke width when mouse moving out the element

WIGMouseOutFillColor

Filling color when mouse moving out the element

WIGMouseUpDisplay

Default False, show/not the tooltip when mouse click up a WIG point.

WIGMouseUpLineOpacity

Line opacity when mouse moving up the element

WIGMouseUpLineStrokeColor

Stroke color when mouse moving up the element

WIGMouseUpLineStrokeWidth

Stroke width when mouse moving up the element

WIGMouseUpFillColor

Filling color when mouse moving up the element

WIGMouseOverDisplay

Default False, show/not the tooltip when mouse hover on a WIG point.

WIGMouseOverLineOpacity

Line opacity when mouse moving over the element

 ${\tt WIGMouseOverLineStrokeColor}$ 

Stroke color when mouse moving over the element

WIGMouseOverLineStrokeWidth

Stroke width when mouse moving over the element

WIGMouseOverFillColor

Filling color when mouse moving over the element

WIGMouseOverTooltipsSetting

Default "style1"

WIGMouseOverTooltipsHtml

Default " "

 ${\tt WIGMouseOverTooltipsPosition}$ 

Default "absolute"

WIGMouseOverTooltipsBackgroundColor

Default "white"

 ${\tt WIGMouseOverTooltipsBorderStyle}$ 

Default "solid"

WIGMouseOverTooltipsBorderWidth

Default 0

 ${\tt WIGMouseOverTooltipsPadding}$ 

Default "3px"

WIGMouseOverTooltipsBorderRadius

Default "3px"

WIGMouseOverTooltipsOpacity

Default 0.8

SCATTERxlink Default False, add/not xlink for SCATTER module

 ${\tt SCATTERMouseEvent}$ 

Default True, open/not open mouse event of SCATTER module

SCATTERMouseClickDisplay

Default False, show/not the tooltip when mouse click on a SCATTER point.

SCATTERMouseClickColor

Color when mouse clicking the element

SCATTERMouseClickCircleSize

Circle size when mouse clicking the element

SCATTERMouseClickCircleOpacity

Circle opacity when mouse clicking the element

SCATTERMouseClickCircleStrokeColor

Circle stroke color when mouse clicking the element

SCATTERMouseClickCircleStrokeWidth

Circle stroke width when mouse clicking the element

 ${\tt SCATTERMouseClickTextFromData}$ 

Text column when mouse clicking the element

 ${\sf SCATTERMouseClickTextOpacity}$ 

Text opacity when mouse clicking the element

SCATTERMouseClickTextColor

Text color when mouse clicking the element

SCATTERMouseClickTextSize

Text size when mouse clicking the element

 ${\sf SCATTERMouseClickTextPostionX}, {\sf SCATTERMouseClickTextPostionY}$ 

Text coordinates when mouse clicking the element

SCATTERMouseClickTextDrag

Whether text is draggable when clicing element

SCATTERMouseDownDisplay

Default False, show/not the tooltip when mouse click down a SCATTER point.

SCATTERMouseDownColor

Color when mouse moving down the element

 ${\tt SCATTERMouseDownCircleSize}$ 

Circle size when mouse moving down the element

SCATTERMouseDownCircleOpacity

Circle opacity when mouse moving down the element

 ${\sf SCATTERMouseDownCircleStrokeColor}$ 

Circle stroke color when mouse moving down the element

 ${\sf SCATTERMouseDownCircleStrokeWidth}$ 

Circle stroke width when mouse moving down the element

 ${\tt SCATTERMouseEnterDisplay}$ 

Default False, show/not the tooltip when mouse mover over a SCATTER point.

 ${\sf SCATTERMouseEnterColor}$ 

Color when mouse entering the element

 ${\tt SCATTERMouseEnterCircleSize}$ 

Circle size when mouse entering the element

 ${\tt SCATTERMouseEnterCircleOpacity}$ 

Circle opacity when mouse entering the element

 ${\tt SCATTERMouseEnterCircleStrokeColor}$ 

Circle stroke color when mouse entering the element

 ${\tt SCATTERMouseEnterCircleStrokeWidth}$ 

Circle stroke width when mouse entering the element

SCATTERMouseLeaveDisplay

Default False, show/not the tooltip when mouse mover leave a SCATTER point.

SCATTERMouseLeaveColor

Color when mouse leaving the element

SCATTERMouseLeaveCircleSize

Circle size when mouse leaving the element

SCATTERMouseLeaveCircleOpacity

Circle opacity when mouse leaving the element

 ${\tt SCATTERMouseLeaveCircleStrokeColor}$ 

Circle stroke color when mouse leaving the element

 ${\tt SCATTERMouseLeaveCircleStrokeWidth}$ 

Circle stroke width when mouse leaving the element

SCATTERMouseMoveDisplay

Default False, show/not the tooltip when mouse move into a SCATTER point.

SCATTERMouseMoveColor

Color when mouse moving in the element

 ${\tt SCATTERMouseMoveCircleSize}$ 

Circle size when mouse moving in the element

SCATTERMouseMoveCircleOpacity

Circle opacity when mouse moving in the element

 ${\sf SCATTERMouseMoveCircleStrokeColor}$ 

Circle stroke color when mouse moving in the element

 ${\tt SCATTERMouseMoveCircleStrokeWidth}$ 

Circle stroke width when mouse moving in the element

 ${\sf SCATTERMouseOutDisplay}$ 

Defalut False, hide/not tooltip when mouse is not hovering a SCATTER point anymore.

 ${\sf SCATTERMouseOutAnimationTime}$ 

Animation time when mouse moving out the element

SCATTERMouseOutColor

Color when mouse moving out the element

SCATTERMouseOutCircleSize

Circle size when mouse moving out the element

SCATTERMouseOutCircleOpacity

Circle opacity when mouse moving out the element

 ${\tt SCATTERMouseOutCircleStrokeColor}$ 

Circle stroke color when mouse moving out the element

 ${\tt SCATTERMouseOutCircleStrokeWidth}$ 

Circle stroke width when mouse moving out the element

 ${\tt SCATTERMouseUpDisplay}$ 

Default False, show/not the tooltip when mouse click up a SCATTER point.

SCATTERMouseUpColor

Color when mouse moving up the element

 ${\tt SCATTERMouseUpCircleSize}$ 

Circle size when mouse moving up the element

 ${\tt SCATTERMouseUpCircleOpacity}$ 

Circle opacity when mouse moving up the element

 ${\tt SCATTERMouseUpCircleStrokeColor}$ 

Circle stroke color when mouse moving up the element

SCATTERMouseUpCircleStrokeWidth

Circle stroke width when mouse moving up the element

SCATTERMouseOverDisplay

Default False, show/not the tooltip when mouse hover on a SCATTER point.

SCATTERMouseOverColor

Color when mouse moving over the element

SCATTERMouseOverCircleSize

Circle size when mouse moving over the element

SCATTERMouseOverCircleOpacity

Circle opacity when mouse moving over the element

SCATTERMouseOverCircleStrokeColor

Circle stroke color when mouse moving over the element

SCATTERMouseOverCircleStrokeWidth

Circle stroke width when mouse moving over the element

 ${\tt SCATTERMouseOverTooltipsSetting}$ 

Default "style1"

SCATTERMouseOverTooltipsHtml

Default " "

SCATTERMouseOverTooltipsPosition

Default "absolute"

 ${\tt SCATTERMouseOverTooltipsBackgroundColor}$ 

Default "white"

 ${\tt SCATTERMouseOverTooltipsBorderStyle}$ 

Default "solid"

 ${\tt SCATTERMouseOverTooltipsBorderWidth}$ 

Default 0

SCATTERMouseOverTooltipsPadding

Default "3px"

SCATTERMouseOverTooltipsBorderRadius

Default "3px"

SCATTERMouseOverTooltipsOpacity

Default 0.8

ARCxlink Default False, add/not xlink for ARC module

ARCMouseEvent Default True, open/not open mouse event of ARC module

ARCMouseClickDisplay

Default False, show/not the tooltip when mouse click on a ARC point.

ARCMouseClickColor

Color when mouse clicking the element

ARCMouseClickArcOpacity

Arc opacity when mouse clicking the element

ARCMouseClickArcStrokeColor

Arc stroke color when mouse clicking the element

ARCMouseClickArcStrokeWidth

Arc stroke width when mouse clicking the element

ARCMouseClickTextFromData

Text column when mouse clicking the element

 ${\tt ARCMouseClickTextOpacity}$ 

Text opacity when mouse clicking the element

ARCMouseClickTextColor

Text color when mouse clicking the element

ARCMouseClickTextSize

Text size when mouse clicking the element

ARCMouseClickTextPostionX, ARCMouseClickTextPostionY

Text coordinates when mouse clicking the element

ARCMouseClickTextDrag

Whether text is draggable when mouse clicking the element

ARCMouseDownDisplay

Default False, show/not the tooltip when mouse click down a ARC point.

ARCMouseDownColor

Color when mouse moving down the element

ARCMouseDownArcOpacity

Arc opacity when mouse moving down the element

 ${\tt ARCMouseDownArcStrokeColor}$ 

Arc stroke color when mouse moving down the element

ARCMouseDownArcStrokeWidth

Arc stroke width when mouse moving down the element

ARCMouseEnterDisplay

Default False, show/not the tooltip when mouse mover over a ARC point.

ARCMouseEnterColor

Color when mouse entering the element

ARCMouseEnterArcOpacity

Arc opacity when mouse entering the element

 ${\tt ARCMouseEnterArcStrokeColor}$ 

Arc stroke color when mouse entering the element

ARCMouseEnterArcStrokeWidth

Arc stroke width when mouse entering the element

ARCMouseLeaveDisplay

Default False, show/not the tooltip when mouse mover leave a ARC point.

ARCMouseLeaveColor

Color when mouse leaving the element

ARCMouseLeaveArcOpacity

Arc opacity when mouse leaving the element

ARCMouseLeaveArcStrokeColor

Arc stroke color when mouse leaving the element

ARCMouseLeaveArcStrokeWidth

Arc stroke width when mouse leaving the element

 ${\tt ARCMouse Move Display}$ 

Default False, show/not the tooltip when mouse move into a ARC point.

ARCMouseMoveColor

Color when mouse moving in the element

ARCMouseMoveArcOpacity

Arc opacity when mouse moving in the element

 ${\tt ARCMouseMoveArcStrokeColor}$ 

Arc stroke color when mouse moving in the element

ARCMouseMoveArcStrokeWidth

Arc stroke width when mouse moving in the element

ARCMouseOutDisplay

Defalut False, hide/not tooltip when mouse is not hovering a ARC point anymore.

ARCMouseOutAnimationTime

Animation time when mouse moving out the element

ARCMouseOutColor

Color when mouse moving out the element

ARCMouseOutArcOpacity

Arc opacity when mouse moving out the element

ARCMouseOutArcStrokeColor

Arc stroke color when mouse moving out the element

ARCMouseOutArcStrokeWidth

Arc stroke width when mouse moving out the element

ARCMouseUpDisplay

Default False, show/not the tooltip when mouse click up a ARC point.

ARCMouseUpColor

Color when mouse moving up the element

ARCMouseUpArcOpacity

Arc opacity when mouse moving up the element

 ${\tt ARCMouseUpArcStrokeColor}$ 

Arc stroke color when mouse moving up the element

 ${\tt ARCMouseUpArcStrokeWidth}$ 

Arc stroke width when mouse moving up the element

ARCMouseOverDisplay

Default False, show/not the tooltip when mouse hover on a ARC point.

ARCMouseOverColor

Color when mouse moving over the element

ARCMouseOverArcOpacity

Arc opacity when mouse moving over the element

ARCMouseOverArcStrokeColor

Arc stroke color when mouse moving over the element

ARCMouseOverArcStrokeWidth

Arc stroke width when mouse moving over the element

ARCMouseOverTooltipsSetting

Default "style1"

ARCMouseOverTooltipsHtml

Default " "

 ${\tt ARCMouseOverTooltipsPosition}$ 

Default "absolute"

ARCMouseOverTooltipsBackgroundColor

Default "white"

ARCMouse Over Tool tips Border Style

Default "solid"

ARCMouse Over Tool tips Border Width

Default 0

ARCMouseOverTooltipsPadding

Default "3px"

ARCMouseOverTooltipsBorderRadius

Default "3px"

ARCMouseOverTooltipsOpacity

Default 0.8

GENExlink Default False, add/not xlink for GENE module

GENEMouseEvent Default True, open/not open mouse event of GENE module

GENEMouseClickDisplay

Default False, show/not the tooltip when mouse click on a GENE point.

GENEMouseClickColor

Color when mouse clicking the element

GENEMouseClickArcOpacity

Arc opacity when mouse clicking the element

GENEMouseClickArcStrokeColor

Arc stroke color when mouse clicking the element

GENEMouseClickArcStrokeWidth

Arc stroke width when mouse clicking the element

 ${\sf GENEMouseClickTextFromData}$ 

Text column when mouse clicking the element

GENEMouseClickTextOpacity

Text opacity when mouse clicking the element

 ${\tt GENEMouseClickTextColor}$ 

Text color when mouse clicking the element

GENEMouseClickTextSize

Text size when mouse clicking the element

GENEMouseClickTextPostionX, GENEMouseClickTextPostionY

Text coordinates when mouse clicking the element

GENEMouseClickTextDrag

Whether text is draggable when mouse clicking the element

GENEMouseDownDisplay

Default False, show/not the tooltip when mouse click down a GENE point.

GENEMouseDownColor

Color when mouse moving down the element

GENEMouseDownArcOpacity

Arc opacity when mouse moving down the element

 ${\tt GENEMouseDownArcStrokeColor}$ 

Arc stroke color when mouse moving down the element

GENEMouseDownArcStrokeWidth

Arc stroke width when mouse moving down the element

GENEMouseEnterDisplay

Default False, show/not the tooltip when mouse mover over a GENE point.

 ${\tt GENEMouseEnterColor}$ 

Color when mouse entering the element

GENEMouseEnterArcOpacity

Arc opacity when mouse entering the element

 ${\tt GENEMouseEnterArcStrokeColor}$ 

Arc stroke color when mouse entering the element

 ${\tt GENEMouseEnterArcStrokeWidth}$ 

Arc stroke width when mouse entering the element

GENEMouseLeaveDisplay

Default False, show/not the tooltip when mouse mover leave a GENE point.

GENEMouseLeaveColor

Color when mouse leaving the element

GENEMouseLeaveArcOpacity

Arc opacity when mouse leaving the element

 ${\tt GENEMouseLeaveArcStrokeColor}$ 

Arc stroke color when mouse leaving the element

 ${\tt GENEMouseLeaveArcStrokeWidth}$ 

Arc stroke width when mouse leaving the element

GENEMouseMoveDisplay

Default False, show/not the tooltip when mouse move into a GENE point.

GENEMouseMoveColor

Color when mouse moving in the element

GENEMouseMoveArcOpacity

Arc opacity when mouse moving in the element

 ${\tt GENEMouseMoveArcStrokeColor}$ 

Arc stroke color when mouse moving in the element

GENEMouseMoveArcStrokeWidth

Arc stroke width when mouse moving in the element

GENEMouseOutDisplay

Defalut False, hide/not tooltip when mouse is not hovering a GENE point anymore.

GENEMouseOutAnimationTime

Animation time when mouse moving out the element

GENEMouseOutColor

Color when mouse moving out the element

 ${\tt GENEMouseOutArcOpacity}$ 

Arc opacity when mouse moving out the element

GENEMouseOutArcStrokeColor

Arc stroke color when mouse moving out the element

GENEMouseOutArcStrokeWidth

Arc stroke width when mouse moving out the element

GENEMouseUpDisplay

Default False, show/not the tooltip when mouse click up a GENE point.

GENEMouseUpColor

Color when mouse moving up the element

GENEMouseUpArcOpacity

Arc opacity when mouse moving up the element

 ${\tt GENEMouseUpArcStrokeColor}$ 

Arc stroke color when mouse moving up the element

GENEMouseUpArcStrokeWidth

Arc stroke width when mouse moving up the element

GENEMouseOverDisplay

Default False, show/not the tooltip when mouse hover on a GENE point.

GENEMouseOverColor

Color when mouse moving over the element

GENEMouseOverArcOpacity

Arc opacity when mouse moving over the element

GENEMouseOverArcStrokeColor

Arc stroke color when mouse moving over the element

GENEMouseOverArcStrokeWidth

Arc stroke width when mouse moving over the element

GENEMouseOverTooltipsSetting

Default "style1"

GENEMouseOverTooltipsHtml

Default " "

 ${\tt GENEMouseOverTooltipsPosition}$ 

Default "absolute"

 ${\tt GENEMouseOverTooltipsBackgroundColor}$ 

Default "white"

GENEMouseOverTooltipsBorderStyle

Default "solid"

GENEMouseOverTooltipsBorderWidth

Default 0

GENEMouseOverTooltipsPadding

Default "3px"

GENEMouseOverTooltipsBorderRadius

Default "3px"

GENEMouseOverTooltipsOpacity

Default 0.8

LOLLIPOPxlink Default False, add/not xlink for LOLLIPOP module

LOLLIPOPMouseEvent

Default True, open/not open mouse event of LOLLIPOP module

LOLLIPOPMouseClickDisplay

Default False, show/not the tooltip when mouse click on a LOLLIPOP point.

LOLLIPOPMouseClickColor

Color when mouse clicking

LOLLIPOPMouseClickCircleSize

Circle size when mouse clicking the element

LOLLIPOPMouseClickCircleOpacity

Circle opacity when mouse clicking the element

LOLLIPOPMouseClickCircleStrokeColor

Circle stroke color when mouse clicking the element

 $\verb+LOLLIPOPMouseClickCircleStrokeWidth+\\$ 

Circle stroke width when mouse clicking the element

LOLLIPOPMouse Click Text From Data

Text column when mouse clicking the element

LOLLIPOPMouseClickTextOpacity

Text opacity when mouse clicking the element

 $\verb|LOLLIPOPMouseClickTextColor||\\$ 

Text color when mouse clicking the element

 ${\tt LOLLIPOPMouseClickTextSize}$ 

Text size when mouse clicking the element

 $\verb|LOLLIPOPMouseClickTextPostionX|, \verb|LOLLIPOPMouseClickTextPostionX||$ 

Text coordinates when mouse clicking the element

LOLLIPOPMouseClickTextDrag

Whether text is draggable when mouse clicking the element

LOLLIPOPMouseDownDisplay

Default False, show/not the tooltip when mouse click down a LOLLIPOP point.

LOLLIPOPMouseDownColor

Color when mouse moving down the element

LOLLIPOPMouseDownCircleSize

Circle size when mouse moving down the element

LOLLIPOPMouseDownCircleOpacity

Circle opacity when mouse moving down the element

LOLLIPOPMouseDownCircleStrokeColor

Circle stroke color when mouse moving down the element

LOLLIPOPMouseDownCircleStrokeWidth

Circle stroke width when mouse moving down the element

LOLLIPOPMouseEnterDisplay

Default False, show/not the tooltip when mouse mover over a LOLLIPOP point.

LOLLIPOPMouseEnterColor

Color when mouse entering the element

LOLLIPOPMouseEnterCircleSize

Circle size when mouse entering the element

LOLLIPOPMouseEnterCircleOpacity

Circle opacity when mouse entering the element

LOLLIPOPMouseEnterCircleStrokeColor

Circle stroke color when mouse entering the element

LOLLIPOPMouseEnterCircleStrokeWidth

Circle stroke width when mouse entering the element

LOLLIPOPMouseLeaveDisplay

Default False, show/not the tooltip when mouse mover leave a LOLLIPOP point.

LOLLIPOPMouseLeaveColor

Color when mouse leaving the element

LOLLIPOPMouseLeaveCircleSize

Circle size when mouse leaving the element

LOLLIPOPMouseLeaveCircleOpacity

Circle opacity when mouse leaving the element

 $\verb|LOLLIPOPMouseLeaveCircleStrokeColor| \\$ 

Circle stroke color when mouse leaving the element

 $\verb|LOLLIPOPMouseLeaveCircleStrokeWidth|\\$ 

Circle stroke width when mouse leaving the element

LOLLIPOPMouseMoveDisplay

Default False, show/not the tooltip when mouse move into a LOLLIPOP point.

LOLLIPOPMouseMoveColor

Color when mouse moving in the element

 $\verb|LOLLIPOPMouseMoveCircleSize| \\$ 

Circle size when mouse moving in the element

 ${\tt LOLLIPOPMouseMoveCircleOpacity}$ 

Circle opacity when mouse moving in the element

 $\verb|LOLLIPOPMouseMoveCircleStrokeColor| \\$ 

Circle stroke color when mouse moving in the element

LOLLIPOPMouseMoveCircleStrokeWidth

Circle stroke width when mouse moving in the element

LOLLIPOPMouseOutDisplay

Defalut False, hide/not tooltip when mouse is not hovering a LOLLIPOP point anymore.

LOLLIPOPMouseOutAnimationTime

Animation time when mouse moving out the element

LOLLIPOPMouseOutColor

Color when mouse moving out the element

LOLLIPOPMouseOutCircleSize

Circle size when mouse moving out the element

LOLLIPOPMouseOutCircleOpacity

Circle opacity when mouse moving out the element

LOLLIPOPMouseOutCircleStrokeColor

Circle stroke color when mouse moving out the element

LOLLIPOPMouseOutCircleStrokeWidth

Circle stroke width when mouse moving out the element

LOLLIPOPMouseUpDisplay

Default False, show/not the tooltip when mouse click up a LOLLIPOP point.

LOLLIPOPMouseUpColor

Color when mouse moving up the element

LOLLIPOPMouseUpCircleSize

Circle size when mouse moving up the element

LOLLIPOPMouseUpCircleOpacity

Circle opacity when mouse moving up the element

LOLLIPOPMouseUpCircleStrokeColor

Circle stroke color when mouse moving up the element

LOLLIPOPMouseUpCircleStrokeWidth

Circle stroke width when mouse moving up the element

LOLLIPOPMouseOverDisplay

Default False, show/not the tooltip when mouse hover on a LOLLIPOP point.

LOLLIPOPMouseOverColor

Color when mouse moving over the element

LOLLIPOPMouseOverCircleSize

Circle size when mouse moving over the element

LOLLIPOPMouseOverCircleOpacity

Circle opacity when mouse moving over the element

LOLLIPOPMouseOverCircleStrokeColor

Circle stroke color when mouse moving over the element

LOLLIPOPMouseOverCircleStrokeWidth

Circle stroke width when mouse moving over the element

LOLLIPOPMouseOverTooltipsSetting

Default "style1"

 $\verb|LOLLIPOPMouseOverTooltipsHtml||\\$ 

Default " "

 $\verb|LOLLIPOPMouseOverTooltipsPosition| \\$ 

Default "absolute"

 $\verb|LOLLIPOPMouseOverTooltipsBackgroundColor| \\$ 

Default "white"

LOLLIPOPMouseOverTooltipsBorderStyle

Default "solid"

 $\verb|LOLLIPOPMouseOverTooltipsBorderWidth|\\$ 

Default 0

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```
LOLLIPOPMouseOverTooltipsPadding
```

Default "3px"

LOLLIPOPMouseOverTooltipsBorderRadius

Default "3px"

LOLLIPOPMouseOverTooltipsOpacity

Default 0.8

elementId the name of the HTML id to be used to contain the visualization.

... Ignored

## **Examples**

```
rNGCircos(genome = "hg19")
```

rNGCircos-shiny

Shiny bindings for rNGCircos

## **Description**

Output and render functions for using rNGCircos within Shiny applications and interactive Rmd documents.

## Usage

```
rNGCircosOutput(outputId, width = "100%", height = "100%")
renderrNGCircos(expr, env = parent.frame(), quoted = FALSE)
```

# **Arguments**

outputId output variable to read from

width, height Must be a valid CSS unit (like '100%', '400px', 'auto') or a number, which

will be coerced to a string and have 'px' appended.

expr An expression that generates a rNGCircos

env The environment in which to evaluate expr.

quoted Is expr a quoted expression (with quote())? This is useful if you want to save

an expression in a variable.

rNGCircosArc 55

rNGCircosArc

Create a ARC module to a moduleList

# **Description**

Display the CNV without value, Gene domain, Chromosome band in the visualization

#### Usage

```
rNGCircosArc(
  modulename,
  compareGroup = 1,
  outerRadius = 150,
  innerRadius = 130,
  opacity = 1,
  animationDisplay = FALSE,
  animationTime = 2000,
  animationType = "bounce",
  data,
  ...
)
```

## **Arguments**

```
The name of the new module.
modulename
compareGroup
                  The group number of this module in compare module
innerRadius, outerRadius
                  Where the module should begin and end
                  The opacity for arc
opacity
animationDisplay
                  Whether display animation
animationTime, animationDelay, animationType
                  The time, delay and display type for animation
data
                  A list of arc with details including chr, start, end, color, des, link and html.
                  Details can be found on document.
                  Ignored
. . .
```

```
arcData<-arcExample
rNGCircos(rNGCircosArc('Arc01', outerRadius = 212, innerRadius = 224, data=arcData),
genome=list("EGFR"=1211),outerRadius = 220,genomeFillColor = c("grey"))</pre>
```

56 rNGCircosAuxLine

rNGCircosAuxLine

Create a AUXILIAYLINE module to a moduleList

# **Description**

A auxiliary line displayed in the visualization

#### Usage

```
rNGCircosAuxLine(
  modulename,
  startX = 20,
  startY = 20,
  endX = 120,
  endY = 120,
  color = "red",
  width = 0.5,
  type = "straight",
  controlPointX = 0,
  controlPointY = 0,
  lineType = "solid",
  dashArray = 3,
  marker = TRUE,
  markerType = "circle",
  markerColor = "blue",
  markerHeight = 5,
  markerWidth = 5,
  markerPosition = 2,
  animationDisplay = FALSE,
  animationTime = 50,
  animationDelay = 1000,
  animationType = "linear",
)
```

# Arguments

modulename	The name of the new module.
startX, startY	Start coordinates for auxiliary line.
endX, endY	End coordinates for auxiliary line.
color	Color for auxiliary line
width	Width for auxiliary line
type	Type for auxiliary line, could be straight/curve/broken
controlPointX, controlPointY	
	The middle point coordinates for curve and broken
lineType	Line type, could be solid/dot
dashArray	The dash gap width
marker	Whether display a marker on the end of line

rNGCircosBackground 57

## **Examples**

```
rNGCircos(rNGCircosAuxLine('AuxLine01'))
```

rNGCircosBackground

Create a BACKGROUND module to be added to a moduleList

## **Description**

Simple background to display behind another module

## Usage

```
rNGCircosBackground(
 modulename,
 compareGroup = 1,
  fillColors = "#EEEEFF",
 borderColors = "#000000",
 axisShow = FALSE,
 axisColor = "#000"
  axisOpacity = 0.5,
 axisNum = 4,
 axisWidth = 0.3,
 maxRadius = 190,
 minRadius = 105,
 borderSize = 0.3,
 animationDisplay = FALSE,
 animationTime = 2000,
 animationDelay = 20,
 animationType = "bounce",
)
```

## **Arguments**

modulename The name of the new module.

compareGroup The group number of this module in compare module

fillColors The color of the background element, in hexadecimal RGB format.

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```
borderColors The color of the background borders, in hexadecimal RGB format.

axisShow Whether show a axis or not
axisWidth, axisColor, axisOpacity, axisNum
The color, opacity value and number of line for axis
minRadius, maxRadius
Where the module should begin and end
borderSize The thickness of the background borders.
animationDisplay
Whether display a animation or not
animationTime, animationDelay, animationType
The time, delay and display type for animation
... Ignored
```

#### **Examples**

```
rNGCircos(rNGCircosBackground('bg01', fillColors="#FFEEEE", borderSize = 1))
```

rNGCircosBubble

Create a BUBBLE module to a moduleList

## **Description**

A bubble plot displayed in the visualization

#### Usage

```
rNGCircosBubble(
 modulename,
 compareGroup = 1,
 maxRadius = 200,
 minRadius = 50,
 blockStroke = TRUE,
 blockStrokeColor = "black",
 blockStrokeWidth = 1,
 blockFill = FALSE,
 blockFillColor = "white",
 bubbleMaxSize = 5,
 bubbleMinSize = 2,
 minColor = "red",
 maxColor = "green",
 ValueAxisManualScale = FALSE,
 ValueAxisMaxScale = 10,
 ValueAxisMinScale = 0,
  totalLayer = 1,
 animationDisplay = FALSE,
 animationTime = 2000,
  animationDelay = 20,
  animationType = "bounce",
 data,
```

rNGCircosChord 59

#### **Arguments**

modulename The name of the new module.

compareGroup The group number of this module in compare module

maxRadius, minRadius

Where the module should begin and end.

blockStroke Whether display the stroke between each bubble block

blockStrokeColor

Stroke color for block

blockStrokeWidth

Stroke width for block

blockFill Whether fill a block or not blockFillColor The color for filling the block

bubbleMaxSize The max size for bubble bubbleMinSize The min size for bubble

minColor The color the bubble with min value maxColor The color the bubble with max value

ValueAxisManualScale

Whether manually control the scale of value

ValueAxisMaxScale, ValueAxisMinScale

The max and min scale value for manually control

totalLayer The color and width for stroke

 $\hbox{animation} \hbox{Display}$ 

Whether display animation

animationTime, animationDelay, animationType

The time, delay and display type for animation

data A list of value in bubble plot with details including chr, start, end, value, name,

layer, color and html. Details can be found on document.

.. Ignored

#### **Examples**

bubbleData<-bubbleExample</pre>

rNGCircos(rNGCircosBubble('Bubble01', maxRadius = 230, minRadius = 170, data=bubbleData, blockStroke = TRUE, bubbleMaxSize =10, bubbleMinSize = 2, maxColor = "red", minColor = "yellow", totalLayer =3, animationDisplay = animationType="linear"), genome = list("2L"=23011544, "2R"=21146708, "3L"=24543557, "3R"= 27905053, "X"=22422827 BUBBLEMouseOverDisplay =TRUE, innerRadius = 236)

rNGCircosChord

Create a CHORD module to a moduleList

# Description

Display a chord module using a data matrix.

60 rNGCircosChord

#### Usage

```
rNGCircosChord(
 modulename,
  innerRadius = 237,
 outerRadius = 238,
  fillOpacity = 0.67,
  fillStrokeWidth = 1,
  padding = 0.06,
  autoFillColor = TRUE,
  fillColor = c("#B8B8B8"),
  fillStrokeColor = c("black"),
 outerARC = TRUE,
 outerARCAutoColor = TRUE,
  outerARCColor = c("red"),
 outerARCStrokeColor = c("black"),
 outerARCText = TRUE,
 data,
)
```

# Arguments

The name of the new module. modulename innerRadius The inner radius for chord circle outerRadius The outer radius for chord circle fillOpacity The opacity for filling color. fillStrokeWidth The stroke width for chord. padding The pad of chord autoFillColor Whether auto assign color for chord If not, manually assign color for chord fillColor fillStrokeColor The color for stroke Whether display outer arc outerARC outerARCAutoColor If true, whether auto assign color for arc outerARCColor The manullay assigned color for arc outerARCStrokeColor The stroke color for arc Whether display text for arc or not outerARCText A matrix-list of chord value with relationship details. data

Ignored

# **Examples**

. . .

```
chordData<-chordExample
rNGCircos(rNGCircosChord('CHORD', data = chordData,innerRadius= 210,outerRadius= 211,fillOpacity=0.67,</pre>
```

rNGCircosCnv 61

```
strokeColor="black", strokeWidth= "1px", outerARCText=FALSE), genome=list("C.CK" = 189.51, "C.NPK"=188, "GC.CK"= "GC.NPK"=191.51, "Alphaproteobacteria"=70.16, "Betaproteobacteria"=23.51, "Gammaproteobacteria"=25.51, "Deltaproteobacteria"=23.28, "Acidobacteria"=53.62, "Actinobacteria"=72.33, "Bacteroidetes"=22.41, "Chloroflexi"=15.08, "Firmicutes"=10.72, "Gemmatimonadetes"=26.37, "Planctomycetes"=19.26, "Thaumarchaeota"=6. "Verrucomicrobia"=8.3, "Ascomycota"=159.41, "Basidiomycota"=79.73, "Zygomycota"=139.29), outerRadius = 217, genomeLabelDisplay = FALSE)
```

rNGCircosCnv

Create a CNV module to a moduleList

#### **Description**

A copy number variance module displayed in the visualization

#### Usage

```
rNGCircosCnv(
  modulename,
  compareGroup = 1,
  maxRadius = 200,
  minRadius = 190,
  width = 10,
  color = "#CAE1FF",
  ValueAxisManualScale = FALSE,
  ValueAxisMaxScale = 10,
  ValueAxisMinScale = 0,
  strokeColor = "black",
  strokeWidth = 1,
  opacity = 1,
  animationDisplay = FALSE,
  animationTime = 2000,
  animationDelay = 50,
  animationType = "bounce",
  data,
)
```

## **Arguments**

modulename The name of the new module.

compareGroup The group number of this module in compare module

maxRadius, minRadius

Where the module should begin and end.

width Width for CNV module

color Color for CNV module

ValueAxisManualScale

Whether manually control the scale of value

ValueAxisMaxScale, ValueAxisMinScale

The max and min scale value for manually control

62 rNGCircosGene

```
strokeColor, strokeWidth
The color and width for stroke

opacity
The opacity for module
animationDisplay
Whether display animation
animationTime, animationDelay, animationType
The time, delay and display type for animation

data
A list of CNV with details including start, end, value, link, color and html.
Details can be found on document.

...
Ignored
```

#### **Examples**

```
cnvData<-cnvExample
rNGCircos(rNGCircosCnv('Cnv01',maxRadius =175, minRadius =116, data =cnvData,width=2,color = "#4876FF")+
rNGCircosBackground("bg01",minRadius = 116,maxRadius = 175,fillColors = "#F2F2F2",axisShow = TRUE),CNVMouseOv</pre>
```

rNGCircosGene

Create a GENE module to a moduleList

#### **Description**

A number of genes with different functional region displayed in the visualization

## Usage

```
rNGCircosGene(
 modulename,
 compareGroup = 1,
 outerRadius = 180,
  innerRadius = 150,
 pathColor = "black",
 pathWidth = 1,
 arrow = TRUE,
 arrowGap = 2,
  arrowColor = "blue",
 arrowSize = 5,
 cdsColor = "#1e77b3",
 cdsStrokeColor = "black",
  cdsStrokeWidth = 1,
 utrWidth = -5,
 utrColor = "blue",
 utrStrokeColor = "blue",
 utrStrokeWidth = 1,
 animationDisplay = FALSE,
 animationTime = 2000,
  animationDelay = 20,
  animationType = "bounce",
 data,
)
```

rNGCircosHeatmap 63

#### **Arguments**

The name of the new module. modulename The group number of this module in compare module compareGroup outerRadius, innerRadius Where the module should begin and end. pathColor The color for path between gene elements pathWidth The width for path between gene elements Whether display arrows on path arrow arrowGap, arrowColor, arrowSize The gap, color and size for arrow cdsColor, cdsStrokeWidth The color, stroke color and stroke width for coding utrWidth, utrColor, utrStrokeColor, utrStrokeWidth The max size for bubble animationDisplay Whether display animation animationTime, animationDelay, animationType The time, delay and display type for animation data A list of gene with details including chr, strand, start, end, type, name, link and html. Details can be found on document. Ignored

#### **Examples**

```
geneData<-geneExample
rNGCircos(rNGCircosGene('Gene01', outerRadius = 195, innerRadius = 180, data=geneData,arrowGap = 10,
arrowColor = "black",arrowSize = "12px",cdsColor = "#1e77b3",cdsStrokeColor = "#1e77b3",cdsStrokeWidth= 5,
utrWidth= -2,utrColor= "#fe7f0e",utrStrokeColor= "#fe7f0e",animationDisplay = TRUE),genome =list("EGFR"=1000
outerRadius = 220)</pre>
```

rNGCircosHeatmap

Create a HEATMAP module to a moduleList

## **Description**

A heatmap plot displayed in the visualization

# Usage

```
rNGCircosHeatmap(
  modulename,
  compareGroup = 1,
  maxRadius = 180,
  minRadius = 100,
  minColor = "red",
  maxColor = "green",
  ValueAxisManualScale = FALSE,
```

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```
ValueAxisMaxScale = 10,
ValueAxisMinScale = 0,
totalLayer = 1,
animationDisplay = FALSE,
animationDirection = "02I",
animationColorDirection = "L2C",
animationTime = 2000,
animationDelay = 20,
animationType = "bounce",
data,
...
```

## Arguments

modulename The name of the new module.

compareGroup The group number of this module in compare module

maxRadius, minRadius

Where the module should begin and end.

minColor The color for heatmap with min value
maxColor The color for heatmap with max value

ValueAxisManualScale

Whether manually control the scale of value

ValueAxisMaxScale, ValueAxisMinScale

The max and min scale value for manually control

totalLayer The color and width for stroke

animationDisplay

Whether display animation

animationDirection

The direction for animation. O2I: from outside to inside, I2O: from inside to

outside

animationColorDirection

The color changing in animation. L2C: lowest to customized, H2C: highest to

customized, the customized color should be defined in data

animationTime, animationDelay, animationType

The time, delay and display type for animation

data A list of value in heatmap plot with details including chr, start, end, value, name,

layer and html. Details can be found on document.

.. Ignored

```
heatmapData<-heatmapExample
rNGCircos(rNGCircosHeatmap('Heatmap01', maxRadius= 180, minRadius = 100, data=heatmapData,totalLayer = 3),
genome = list("2L"=23011544,"2R"=21146708,"3L"=24543557,"3R"=27905053,"4"=1351857,"X"=22422827),
HEATMAPMouseEvent = TRUE, HEATMAPMouseOverDisplay = TRUE)</pre>
```

rNGCircosHistogram 65

rNGCircosHistogram

Create a HISTOGRAM module to a moduleList

## **Description**

Display a multi-layer histogram in circos

#### Usage

```
rNGCircosHistogram(
  modulename,
  compareGroup = 1,
  maxRadius = 108,
  minRadius = 95,
  ValueAxisManualScale = FALSE,
  ValueAxisMinScale = 10,
  ValueAxisMinScale = 0,
  fillColor = "red",
  animationDisplay = FALSE,
  animationTime = 2000,
  animationDelay = 20,
  data,
  ...
)
```

## **Arguments**

modulename The name of the new module. compareGroup The group number of this module in compare module maxRadius, minRadius Where the module should begin and end ValueAxisManualScale Whether manually control the scale of value ValueAxisMaxScale, ValueAxisMinScale The max and min scale value for manually control fillColor The color for histgram. animationDisplay Whether display animation animationTime, animationDelay The time and delay for animation data A list of value with details including chr, start, end, name, link, value and html. Details can be found on document. Ignored

```
histogramData<-histogramExample rNGCircos(rNGCircosHistogram('HISTOGRAM01', data = histogramData,fillColor= "#ff7f0e",maxRadius = 210,
```

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```
minRadius = 175),genome=list("2L"=23011544,"2R"=21146708,"3L"=24543557,"3R"= 27905053,"X"=22422827,"4"=1351800terRadius = 220)
```

rNGCircosLegend

Create a LEGEND module to a moduleList

#### **Description**

Simple legend annotation displayed in the visualization.

#### Usage

```
rNGCircosLegend(
  modulename,
  x = 20,
  y = 20,
  title = "legend",
  size = 6,
  weight = "normal",
  GapBetweenGraphicText = 5,
  GapBetweenLines = 20,
  data,
  ...
)
```

#### **Arguments**

modulename The name of the new module.

x, y Coordinates of the lower left corner of the annotation

title The title for legend

size Font size for title, with units specified (such as em or px).

weight Font weight for title. Can be "normal", "bold", "bolder" or "lighter".

 ${\tt GapBetweenGraphicText}$ 

Gap between icon and text in legend.

GapBetweenLines

Gap between each two lines in legend

data A list of legend with details including type, color, opacity, circleSize, rectSize,

lineWidth, lineHeight, text, textSize and textWeight. Details can be found on

document.

... Ignored

```
legend1 <- list(type= "circle", color="#1E77B4",opacity="1.0",circleSize="8",text= "C.CK", textSize= "14",tex
legend2 <- list(type= "circle", color="#AEC7E8",opacity="1.0",circleSize="8",text= "C.NPK", textSize= "14",tex
rNGCircos(rNGCircosLegend('legend01', title = "legend",data=list(legend1,legend2),size = 20))</pre>
```

rNGCircosLine 67

rNGCircosLine

Create a LINE module to a moduleList

## **Description**

Display a multi-layer line plot in circos

#### Usage

```
rNGCircosLine(
 modulename,
 compareGroup = 1,
 maxRadius = 108,
 minRadius = 95,
 ValueAxisManualScale = FALSE,
 ValueAxisMaxScale = 10,
  ValueAxisMinScale = 0,
  color = "red",
 width = 2,
  type = "cardinal",
  animationDisplay = FALSE,
  animationDirection = "S2E",
  animationTime = 2000,
 animationDelay = 20,
 animationType = "bounce",
 data,
)
```

## **Arguments**

```
modulename
                 The name of the new module.
                 The group number of this module in compare module
compareGroup
maxRadius, minRadius
                 Where the module should begin and end
ValueAxisManualScale
                 Whether manually control the scale of value
ValueAxisMaxScale, ValueAxisMinScale
                 The max and min scale value for manually control
color
                 Color for line
width
                 Width for line
                 Type for line, could be linear, cardinal, basis and monotone
type
animationDisplay
                  Whether display animation
animationDirection
                 The direction of animation, could be S2E(start to end) or E2S(end to start)
animationTime, animationDelay, animationType
                 The time, delay and display type for animation
```

68 rNGCircosLink

data A list of value with details including chr, pos, des, value and html. Details can

be found on document.

... Ignored

#### **Examples**

```
lineData<-lineExample
rNGCircos(rNGCircosLine('LINE01', data = lineData,maxRadius=200,minRadius=150,color= "#ff0031")+
rNGCircosBackground('BG01',minRadius = 205,maxRadius = 150))</pre>
```

rNGCircosLink

Create a LINK module to a moduleList

## **Description**

Link two specific region in genome.

## Usage

```
rNGCircosLink(
 modulename,
 compareGroup = 1,
  radius = 108,
  fillColor = "red",
 width = 3,
  type = "Q"
 displayLinkAxis = TRUE,
 axisColor = "#B8B8B8",
 axisWidth = 0.5,
 axisPad = 3,
 displayLinkLabel = TRUE,
 labelColor = "red",
 labelSize = 13,
 labelPad = 8,
 animationDisplay = FALSE,
 animationDirection = "1to2",
 animationTime = 2000,
  animationDelay = 20,
 animationType = "bounce",
 data,
```

# Arguments

modulename The name of the new module.

compareGroup The group number of thic module in compare module

radius Radius of link circle.

fillColor Color for link.

rNGCircosLollipop 69

width Width for link.

type Type of link, could be Q/S/T

displayLinkAxis

Whether display axis for link or not

axisColor The color for axis
axisWidth The width for axis
axisPad The pad for axis

displayLinkLabel

Whether display label for link or not

labelColor The color for label labelSize The size for label labelPad The pad for label animationDisplay

Whether display animation

animationDirection

The direction of link animation, could be 1to2 or 2to1

animationTime, animationDelay, animationType

The time, delay and display type for animation

data A list of link with details including g1chr, g1start, g1end, g2chr, g2start, g2end,

g1name, g2name, fusion, link and html. Details can be found on document.

... Ignored

#### **Examples**

```
linkData<-linkExample
rNGCircos(rNGCircosLink('LINK', data = linkData,LinkRadius= 140,fillColor= "#9e9ac6",width= 2,
axisPad= 3,labelPad=8,animationDisplay=TRUE,animationDirection="1to2", animationType= "linear"))</pre>
```

rNGCircosLollipop

Create a LOLLIPOP module to a moduleList

## **Description**

Display a lollipop plot in the visualization

#### Usage

```
rNGCircosLollipop(
  modulename,
  compareGroup = 1,
  fillColor = "#9400D3",
  secondColor = "#FFFFFF",
  pointType = "circle",
  circleSize = 2,
  diamondWidth = 10,
  diamondHeight = 5,
  rectWidth = 2,
```

70 rNGCircosLollipop

```
rectHeight = 2,
 stroke = TRUE,
  strokeColor = "#000000",
  strokeWidth = 0.5,
  lineAutoHeight = TRUE,
  lineAutoMaximumHeightZoomRate = 1,
  lineHeightRate = 0.75,
  lineWidth = 2,
  lineColor = "#000000",
  realStart = 0,
  ValueAxisManualScale = FALSE,
  ValueAxisMaxScale = 10,
 ValueAxisMinScale = 0,
  animationDisplay = FALSE,
  animationTime = 2000,
  animationDelay = 20,
  animationType = "bounce",
 data,
)
```

## **Arguments**

modulename The name of the new module.

compareGroup The group number of this module in compare module

fillColor Filling color for lollipop

secondColor Second filling color for heterogeneous lollipop

pointType The type for lollipop, could be circle, rect and diamond

circleSize If circle, the size for lollipop

diamondWidth, diamondHeight

If diamond, the width and height for lollipop

rectWidth, rectHeight

If rect, the width and height for lollipop

stroke Whether display the stroke for lollipop

strokeColor, strokeWidth

The color and width for stroke

lineAutoHeight Whether auto assign the height for each lollipop

line Auto Maximum Height Zoom Rate

If auto assign, the zoom rate for each lollipop

lineHeightRate If manually assign, the rate of lollipop compared to real value

lineWidth, lineColor

The width and color for the line of lollipop

realStart The real start position for data in genome.

ValueAxisManualScale

Whether manually control the scale of value

ValueAxisMaxScale, ValueAxisMinScale

The max and min scale value for manually control

animationDisplay

Whether display animation

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```
animationTime, animationDelay, animationType
```

The time, delay and display type for animation

data

A list of lollipop value with details including protein, chr, pos, strand, Cancer-TypeNumber, color, link, Consequence, AA\_pos, AA\_change, type, link and

html. Details can be found on document.

... Ignored

#### **Examples**

```
lollipopData<-lollipopExample
arcData<-arcExample
rNGCircos(rNGCircosLollipop('Lollipop01', data=lollipopData, fillColor="#9400D3",
circleSize= 6, strokeColor= "#999999", strokeWidth= "1px", animationDisplay=TRUE, lineWidth= 2,
realStart= 101219350)+rNGCircosArc('Arc01', outerRadius = 212, innerRadius = 224, data=arcData),
genome=list("EGFR"=1211),outerRadius = 220,genomeFillColor = c("grey"))</pre>
```

rNGCircosModuleList

Create a list of modules

## **Description**

This allows the use of the '+' and '-' operator on these lists

## Usage

```
rNGCircosModuleList()
## S3 method for class 'rNGCircosModuleList'
x + ...
## S3 method for class 'rNGCircosModuleList'
x - ...
```

#### **Arguments**

x The moduleList on which other modules should be added or removed.

... The modules to add (as moduleLists) or to remove (as module names).

rNGCircosScatter

Create a SCATTER module to a moduleList

# Description

Display a point plot in circos

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#### Usage

```
rNGCircosScatter(
 modulename,
 compareGroup = 1,
  radius = 140,
  innerCircleSize = 1,
 outerCircleSize = 5,
  innerCircleColor = "#F26223",
  outerCircleColor = "#F26223",
  innerPointType = "circle",
 outerPointType = "circle",
  innerrectWidth = 2,
  innerrectHeight = 2,
 outerrectWidth = 2,
 outerrectHeight = 2,
 outerCircleOpacity = 1,
 random_data = 0,
 animationDisplay = FALSE,
 animationInitialPositionX = 0,
 animationInitialPositionY = 0,
  animationTime = 2000,
  animationDelay = 20,
  animationType = "bounce",
 data,
)
```

#### **Arguments**

```
modulename
                  The name of the new module.
compareGroup
                  The group number of this module in compare module
radius
                  Radius of scatter circle
innerCircleSize, outerCircleSize
                  If circle, inner and outer circle size
innerCircleColor, outerCircleColor
                  If circle, inner and outer circle color
innerPointType, outerPointType
                  The type for inner and outer point, could be circle or rect
innerrectWidth, innerrectHeight
                  If rect, inner width and height
outerrectWidth, outerrectHeight
                  If rect, inner width and height
outerCircleOpacity
                  If circle, the opacity for outer circle
random_data
                  Scatter position fluctuation
animationDisplay
                  Whether display animation
animationInitialPositionX, animationInitialPositionY
                  The initial coordinates for animation
```

rNGCircosSnp 73

```
animationTime, animationDelay, animationType
The time, delay and display type for animation

data
A list of value with details including chr, start, end, name, des, link and html.
Details can be found on document.

...
Ignored
```

#### **Examples**

```
scatterData<-scatterExample
rNGCircos(rNGCircosScatter('SCATTER01', data = scatterData,radius=180,innerCircleColor= "#3d6390",
outerCircleColor= "#99cafe",random_data= 40))</pre>
```

rNGCircosSnp

Create a module with SNPs to be added to a moduleList

# **Description**

SNPs are defined by genomic coordinates and associated with a numerical value

# Usage

```
rNGCircosSnp(
 modulename,
 compareGroup = 1,
 minRadius = 153,
 maxRadius = 205,
  fillColorType = "specific",
  fillColor = "#9400D3",
  fillr2Color = c("13#ff0031", "#ff0031", "#ff0031", "#ff0031"),
 ValueAxisManualScale = FALSE,
 ValueAxisMaxScale = 10,
 ValueAxisMinScale = 0,
 pointType = "circle",
 circleSize = 2,
 rectWidth = 2,
 rectHeight = 2,
 animationDisplay = FALSE,
 animationInitialPositionX = 0,
 animationInitialPositionY = 0,
 animationTime = 2000,
 animationDelay = 20,
 animationType = "bounce",
 data,
)
```

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#### **Arguments**

modulename The name of the new module.

compareGroup The group number of this module in compare module

maxRadius, minRadius

Where the module should begin and end

fillColorType The type of filling color, could be either specific or r2(means based on r2)

fillColor If specific, the color for SNP filling

fillr2Color If r2, the color for SNP filling

ValueAxisManualScale

Whether manually control the scale of value

ValueAxisMaxScale, ValueAxisMinScale

The max and min scale value for manually control

pointType The type of SNP point, could be circle or rect

circleSize If circle, the size for SNP circle rectWidth If rect, the width for SNP rect rectHeight If rect, the height for SNP rect

animationDisplay

Whether display animation

animation Initial Position X, animation Initial Position Y

The initial position coordinates for animation

 $\verb"animationTime", animationDelay, animationType"$ 

The time, delay and display type for animation

data A list of SNP value with details including chr, pos, value, des, color, r2value,

link, index, image and html. Details can be found on document.

... Ignored

#### **Examples**

```
snpData<-snpExample
rNGCircos(rNGCircosSnp('SNP01', minRadius =150, maxRadius = 190, data = snpExample,fillColor= "#9ACD32",
    circleSize= 2, SNPAnimationDisplay=TRUE,SNPAnimationTime= 2000,SNPAnimationDelay= 0, SNPAnimationType= "lirrNGCircosBackground('BG01',minRadius = 145, maxRadius = 200))</pre>
```

 ${\tt rNGCircosText}$ 

Create Text module to be added to a moduleList

## **Description**

Simple text annotation displayed in the visualization

rNGCircosText 75

#### Usage

```
rNGCircosText(
 modulename,
  text,
 x = 0,
 y = 0,
  size = "1.2em",
 weight = "bold",
  opacity = 1,
  color = "#000000",
  rotateRate = 0,
  animationDisplay = FALSE,
 animationInitialSize = 20,
 animationInitialWeight = "bold",
  animationInitialColor = "black",
  animationInitialOpacity = 1,
 animationInitialPositionX = 0,
  animationInitialPositionY = 0,
  animationInitialRotate = 0,
 animationDelay = 50,
 animationTime = 1000,
  animationType = "linear",
)
```

# **Arguments**

```
The name of the new module.
modulename
                  The text to be displayed.
text
х, у
                  Coordinates of the lower left corner of the annotation
                  Font size, with units specified (such as em or px).
size
                  Font weight. Can be "normal", "bold", "bolder" or "lighter".
weight
opacity
                  Font opacity.
                  Font color, in hexadecimal RGB format.
color
rotateRate
                  ratate rate for text
animationDisplay
                  Whether display a animation or not
animationInitialSize
                  Initial text size in animation
animationInitialWeight
                  Initial text weight in animation
animationInitialColor
                  Initial text color in animation
{\tt animationInitialOpacity}
                  Initial text opacity in animation
animationInitialPositionX, animationInitialPositionY
                  Initial text coordinates in animation(The parameter x,y will become the final
                  position for text if animation displayed)
animationInitialRotate
                  Initial rotate rate in animation
```

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```
animationTime, animationDelay, animationType

The time, delay and display type for animation

... Ignored
```

#### **Examples**

```
rNGCircos(rNGCircosText('text01', 'Annotation', color = '#DD2222', x = -40))
```

rNGCircosWig

Create a WIG module to a moduleList

#### **Description**

Display a multi-layer line plot in circos

#### Usage

```
rNGCircosWig(
 modulename,
 compareGroup = 1,
 maxRadius = 108,
 minRadius = 95,
 direction = "out",
 ValueAxisManualScale = FALSE,
 ValueAxisMaxScale = 10,
 ValueAxisMinScale = 0,
 color = "red",
 opacity = 1,
  strokeColor = "black",
  strokeWidth = 1,
  strokeType = "cardinal",
  animationDisplay = FALSE,
  animationTime = 2000,
  animationDelay = 20,
 animationType = "bounce",
 data,
)
```

## **Arguments**

```
modulename The name of the new module.

compareGroup The group number of this module in compare module maxRadius, minRadius

Where the module should begin and end

direction The direction of plot, either inside or outside

ValueAxisManualScale

Whether manually control the scale of value

ValueAxisMaxScale, ValueAxisMinScale

The max and min scale value for manually control
```

scatterExample 77

color Color for plot
opacity Opacity for plot
strokeColor The color for stroke
strokeWidth The width for stroke

strokeType Line type for stroke, could be linear, cardinal, basis and monotone

animationDisplay

Whether display animation

animationTime, animationDelay, animationType

The time, delay and display type for animation

data A list of value with details including chr, pos, des, value and html. Details can

be found on document.

... Ignored

## **Examples**

```
wigData<-wigExample
rNGCircos(rNGCircosWig('WIG01', data = wigData, maxRadius= 200,minRadius= 150,strokeColor= "darkblue",
color= "lightblue",strokeType= "cardinal")+rNGCircosBackground('BG01',minRadius = 205,maxRadius = 150)
,genome=list("chr8"=1000),outerRadius = 220)</pre>
```

scatterExample

Scatter plot example data

# Description

The data is in matrix with row names

# Usage

scatterExample

## Format

A data frame with 7 columns:

chr chromosome

start start position

end end position

name name for scatter

des description

link hyperlink

html The external html language

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snpExample

Snp plot example data

## **Description**

The data is in matrix with row names

## Usage

snpExample

#### **Format**

A data frame with 10 columns:

chr chromosome

pos position

value value, such as p-value

des description

color color

r2value r2 value

link hyperlink for snp

index index for combination

image image for combination

html The external html language

wigExample

Wig plot example data

## **Description**

The data is in matrix with row names

# Usage

wigExample

#### **Format**

A data frame with 5 columns:

chr chromosome

pos position

des description

value value

html The external html language

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