Package 'interacCircos'

March 29, 2021

Description Implement in an efficient approach to display the genomic data, relationship, informa-

Circos' into this R package, based on 'htmlwidgets' framework.

tion in an interactive circular genome(Circos) plot. 'interacCircos' are inspired by 'circosJS', 'Bio-Circos, js' and 'NG-Circos' and we integrate the modules of 'circosJS', 'BioCircos, js' and 'NG-

Type Package

Title The Generation of Interactive Circos Plot

Version 0.99.4	
License GPL-3	
Encoding UTF-8	
LazyData true	
Depends R (>= 4.0)	
Imports RColorBrewer, htmlwidgets, jsonlite, plyr, grDevices, methods	
RoxygenNote 7.1.0	
Suggests knitr, rmarkdown	
VignetteBuilder knitr	
biocViews Visualization	
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arcExample

Arc plot example data

Description

The data is in matrix with column names

Usage

arcExample

Format

A data frame with 7 columns:

chr chromosome

start start position

end end position

color color

des description

link hyperlink

html The external html language

bubbleExample 3

bubbleExample

Bubble plot example data

Description

The data is in matrix with column 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

chord.pExample

Example data of chord plot of circosJS

Description

The data is in matrix with column names

Usage

chord.pExample

Format

A data frame in which each row represents the relationship from one genome position(source) to another one(target):

source_chr chromosome name of source

source_start start position of source

source_end end position of source

target_chr chromosome name of target

target_start start position of target

target_end end position of target

4 chordExample

chordExample

Example data of chord plot of NG-Circos

Description

The data is in matrix with column names. The order and number is same as column, representing the same items

Usage

chordExample

Format

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

C.CK Genome 1, the name for each arc

C.NPK Genome 2, the name for each arc

GC.CK Genome 2, the name for each arc

GC.NPK Genome 2, the name for each arc

Alphaproteobacteria Genome 2, the name for each arc

Betaproteobacteria Genome 2, the name for each arc

Gammaproteobacteria Genome 2, the name for each arc

Deltaproteobacteria Genome 8, the name for each arc

Acidobacteria Genome 9, the name for each arc

Actinobacteria Genome 10, the name for each arc

Bacteroidetes Genome 11, the name for each arc

Chloroflexi Genome 12, the name for each arc

Firmicutes Genome 13, the name for each arc

Gemmatimonadetes Genome 14, the name for each arc

Planctomycetes Genome 15, the name for each arc

Thaumarchaeota Genome 16, the name for each arc

Verrucomicrobia Genome 17, the name for each arc

Ascomycota Genome 18, the name for each arc

Basidiomycota Genome 19, the name for each arc

Zygomycota Genome 20, the name for each arc

Circos interacCircos

Description

Visualization of Interactive Circos Plot

Usage

```
Circos(
  moduleList = CircosModuleList(),
  genome = "hg19",
  genome2 = "hg19",
  genomeFillColor = "Spectral",
  chrPad = 0.02,
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  height = NULL,
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  outerRadius = 240,
  svgClassName = "interacCircos",
  displayGenomeBorder = TRUE,
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  genomeBorderSize = 0.5,
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  genomeTicksLen = 5,
  genomeTicksColor = "#000",
  genomeTicksTextSize = "0.6em",
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  genomeLabelTextColor = "#000",
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  compareEventGroupDistance = 0,
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  CNVxlink = FALSE,
  CNVMouseEvent = TRUE,
  CNVMouseClickDisplay = FALSE,
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  CNVMouseClickArcStrokeWidth = 0,
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  CNVMouseClickTextOpacity = 1,
  CNVMouseClickTextColor = "red",
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BUBBLEMouseOverTooltipsBorderWidth = 0,
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SCATTERMouseClickTextColor = "red",
SCATTERMouseClickTextSize = 8,
SCATTERMouseClickTextPostionX = 1,
SCATTERMouseClickTextPostionY = 10,
SCATTERMouseClickTextDrag = TRUE,
SCATTERMouseDownDisplay = FALSE,
SCATTERMouseDownColor = "red",
SCATTERMouseDownCircleSize = 2,
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SCATTERMouseEnterCircleSize = 2,
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```
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SCATTERMouseOutColor = "red",
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SCATTERMouseOutCircleStrokeColor = "none",
SCATTERMouseOutCircleStrokeWidth = "none",
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SCATTERMouseUpCircleStrokeColor = "none",
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SCATTERMouseOverColor = "red",
SCATTERMouseOverCircleSize = 2,
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SCATTERMouseOverTooltipsOpacity = 1,
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ARCMouseClickDisplay = FALSE,
ARCMouseClickColor = "red",
ARCMouseClickArcOpacity = 1,
ARCMouseClickArcStrokeColor = "none",
ARCMouseClickArcStrokeWidth = "none"
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ARCMouseClickTextOpacity = 1,
ARCMouseClickTextColor = "red",
ARCMouseClickTextSize = 8,
ARCMouseClickTextPostionX = 1,
```

```
ARCMouseClickTextPostionY = 10,
ARCMouseClickTextDrag = TRUE,
ARCMouseDownDisplay = FALSE,
ARCMouseDownColor = "red",
ARCMouseDownArcOpacity = 1,
ARCMouseDownArcStrokeColor = "none",
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",
ARCMouseMoveArcOpacity = 1,
ARCMouseMoveArcStrokeColor = "none",
ARCMouseMoveArcStrokeWidth = "none",
ARCMouseOutDisplay = FALSE,
ARCMouseOutAnimationTime = 500,
ARCMouseOutColor = "red",
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ARCMouseOutArcStrokeColor = "none",
ARCMouseOutArcStrokeWidth = "none",
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ARCMouseUpColor = "red",
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ARCMouseOverArcStrokeWidth = "none"
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ARCMouseOverTooltipsBorderStyle = "solid",
ARCMouseOverTooltipsBorderWidth = 0,
ARCMouseOverTooltipsPadding = "3px",
ARCMouseOverTooltipsBorderRadius = "3px",
ARCMouseOverTooltipsOpacity = 1,
GENExlink = FALSE,
GENEMouseEvent = TRUE,
GENEMouseClickDisplay = FALSE,
GENEMouseClickColor = "red",
GENEMouseClickArcOpacity = 1,
```

```
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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",
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GENEMouseOverColor = "red",
GENEMouseOverArcOpacity = 1,
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GENEMouseOverArcStrokeWidth = "none",
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GENEMouseOverTooltipsHtml = " ";
GENEMouseOverTooltipsPosition = "absolute",
GENEMouseOverTooltipsBackgroundColor = "white",
GENEMouseOverTooltipsBorderStyle = "solid",
GENEMouseOverTooltipsBorderWidth = 0,
GENEMouseOverTooltipsPadding = "3px",
```

```
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LOLLIPOPMouseEvent = TRUE,
LOLLIPOPMouseClickDisplay = FALSE,
LOLLIPOPMouseClickColor = "red",
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LOLLIPOPMouseClickCircleStrokeColor = "none",
LOLLIPOPMouseClickCircleStrokeWidth = "none",
LOLLIPOPMouseClickTextFromData = "fourth",
LOLLIPOPMouseClickTextOpacity = 1,
LOLLIPOPMouseClickTextColor = "red",
LOLLIPOPMouseClickTextSize = 8,
LOLLIPOPMouseClickTextPostionX = 1,
LOLLIPOPMouseClickTextPostionY = 10,
LOLLIPOPMouseClickTextDrag = TRUE,
LOLLIPOPMouseDownDisplay = FALSE,
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LOLLIPOPMouseDownCircleOpacity = 1,
LOLLIPOPMouseDownCircleStrokeColor = "none",
LOLLIPOPMouseDownCircleStrokeWidth = "none",
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LOLLIPOPMouseEnterColor = "red",
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LOLLIPOPMouseEnterCircleOpacity = 1,
LOLLIPOPMouseEnterCircleStrokeColor = "none",
LOLLIPOPMouseEnterCircleStrokeWidth = "none",
LOLLIPOPMouseLeaveDisplay = FALSE,
LOLLIPOPMouseLeaveColor = "red",
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LOLLIPOPMouseLeaveCircleOpacity = 1,
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LOLLIPOPMouseMoveColor = "red",
LOLLIPOPMouseMoveCircleSize = 2,
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LOLLIPOPMouseMoveCircleStrokeWidth = "none",
LOLLIPOPMouseOutDisplay = FALSE,
LOLLIPOPMouseOutAnimationTime = 500,
LOLLIPOPMouseOutColor = "red",
LOLLIPOPMouseOutCircleSize = 2,
LOLLIPOPMouseOutCircleOpacity = 1,
LOLLIPOPMouseOutCircleStrokeColor = "none",
LOLLIPOPMouseOutCircleStrokeWidth = "none",
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LOLLIPOPMouseUpColor = "red",
LOLLIPOPMouseUpCircleSize = 2,
LOLLIPOPMouseUpCircleOpacity = 1,
```

```
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 LOLLIPOPMouseUpCircleStrokeWidth = "none",
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 LOLLIPOPMouseOverColor = "red",
  LOLLIPOPMouseOverCircleSize = 2,
 LOLLIPOPMouseOverCircleOpacity = 1,
 LOLLIPOPMouseOverCircleStrokeColor = "none",
 LOLLIPOPMouseOverCircleStrokeWidth = "none"
 LOLLIPOPMouseOverTooltipsSetting = "style1",
 LOLLIPOPMouseOverTooltipsHtml = " "
 LOLLIPOPMouseOverTooltipsPosition = "absolute",
 LOLLIPOPMouseOverTooltipsBackgroundColor = "white",
 LOLLIPOPMouseOverTooltipsBorderStyle = "solid",
 LOLLIPOPMouseOverTooltipsBorderWidth = 0,
 LOLLIPOPMouseOverTooltipsPadding = "3px"
 LOLLIPOPMouse Over Tool tips Border Radius = "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)

genome2 Second genome when compare module is applied, format is same as genome

 ${\tt genomeFillColor}$

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

displayGenomeBorder

Whether display a border for genome track or not

genomeBorderColor, genomeBorderSize

The color and size for border of genome

genomeTicksDisplay

Whether display the ticks for genome track

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?

 ${\tt TEXTModuleDragEvent}$

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

CNVMouseClickArcStrokeColor

Arc stroke color when mouse clicking the element

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

CNVMouseClickTextSize

Text size when mouse clicking the element

 ${\tt CNVMouseClickTextPostionX, CNVMouseClickTextPostionY}$

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

 ${\tt CNVMouseDownArcStrokeColor}$

Arc stroke color when mouse moving down the element

CNVMouseDownArcStrokeWidth

Arc stroke width when mouse moving down the element

 ${\tt CNVMouseEnterDisplay}$

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

 ${\tt CNVMouseEnterArcStrokeColor}$

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

CNVMouseLeaveArcOpacity

Arc opacity when mouse leaving the element

 ${\tt CNVMouseLeaveArcStrokeColor}$

Arc stroke color when mouse leaving the element

CNVMouseLeaveArcStrokeWidth

Arc stroke width when mouse leaving the element

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

 ${\tt CNVMouseMoveArcStrokeColor}$

Arc stroke color when mouse moving in the element

 ${\tt CNVMouseMoveArcStrokeWidth}$

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

 ${\tt CNVMouseOutArcOpacity}$

Arc opacity when mouse moving out the element

CNVMouseOutArcStrokeColor

Arc stroke color when mouse moving out the element

 ${\tt CNVMouseOutArcStrokeWidth}$

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

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

CNVMouseOverArcStrokeWidth

Arc stroke width when mouse moving over the element

CNVMouseOverTooltipsSetting

Default "style1"

CNVMouseOverTooltipsHtml

Default " "

CNVMouseOverTooltipsPosition

Default "absolute"

 ${\tt CNVMouseOverTooltipsBackgroundColor}$

Default "white"

CNVMouseOverTooltipsBorderStyle

Default "solid"

 ${\tt CNVMouseOverTooltipsBorderWidth}$

Default 0

CNVMouseOverTooltipsPadding

Default "3px"

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

 ${\tt HEATMAPMouseClickColor}$

Color when mouse clicking

 ${\it HEATMAPMouseClickOpacity}$

Opacity when mouse clicking

 ${\tt HEATMAPMouseClickStrokeColor}$

Stroke color when mouse clicking

 ${\tt HEATMAPMouseClickStrokeWidth}$

Stroke width when mouse clicking

HEATMAPMouseDownDisplay

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

 ${\it HEATMAPMouseDownColor}$

Color when mouse moving down the element

HEATMAPMouseDownOpacity

Opacity when mouse moving down the element

HEATMAPMouseDownStrokeColor

Stroke color when mouse moving down the element

 ${\tt HEATMAPMouseDownStrokeWidth}$

Stroke width when mouse moving down the element

HEATMAPMouseEnterDisplay

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

 ${\sf HEATMAPMouseEnterColor}$

Color when mouse entering the element

HEATMAPMouseEnterOpacity

Opacity when mouse entering the element

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

 ${\tt HEATMAPMouseLeaveColor}$

Color when mouse leaving the element

HEATMAPMouseLeaveOpacity

Opacity when mouse leaving the element

 ${\tt HEATMAPMouseLeaveStrokeColor}$

Stroke color when mouse leaving the element

HEATMAPMouseLeaveStrokeWidth

Stroke width when mouse leaving the element

HEATMAPMouseMoveDisplay

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

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

 ${\tt HEATMAP Mouse Move Stroke Width}$

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

HEATMAPMouseOutStrokeColor

Stroke color when mouse moving out the element

 ${\tt HEATMAPMouseOutStrokeWidth}$

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

 ${\tt HEATMAPMouseUpStrokeColor}$

Stroke color when mouse moving up the element

 ${\tt HEATMAPMouseUpStrokeWidth}$

Stroke width when mouse moving up the element

HEATMAPMouseOverDisplay

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

 ${\tt HEATMAPMouseOverColor}$

Color when mouse moving over the element

HEATMAPMouseOverOpacity

Opacity when mouse moving over the element

HEATMAPMouseOverStrokeColor

Stroke color when mouse moving over the element

 ${\tt HEATMAPMouseOverStrokeWidth}$

Stroke width when mouse moving over the element

HEATMAPMouseOverTooltipsSetting

Default "style1"

HEATMAPMouseOverTooltipsHtml

Default " "

HEATMAPMouseOverTooltipsPosition

Default "absolute"

 ${\tt HEATMAPMouseOverTooltipsBackgroundColor}$

Default "white"

 ${\tt HEATMAPMouseOverTooltipsBorderStyle}$

Default "solid"

HEATMAPMouseOverTooltipsBorderWidth

Default 0

 ${\tt HEATMAPMouseOverTooltipsPadding}$

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

 ${\tt BUBBLEMouseClickOpacity}$

Opacity when mouse clicking

 ${\tt BUBBLEMouseClickStrokeColor}$

Stroke color when mouse clicking

 ${\tt BUBBLEMouseClickStrokeWidth}$

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

BUBBLEMouseDownOpacity

Opacity when mouse moving down the element

 ${\tt BUBBLEMouseDownStrokeColor}$

Stroke color when mouse moving down the element

BUBBLEMouseDownStrokeWidth

Stroke width when mouse moving down the element

 ${\tt BUBBLEMouseEnterDisplay}$

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

BUBBLEMouseEnterColor

Color when mouse entering the element

BUBBLEMouseEnterOpacity

Opacity when mouse entering the element

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

BUBBLEMouseLeaveStrokeWidth

Stroke width when mouse leaving the element

 ${\tt BUBBLEMouseMoveDisplay}$

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

 ${\tt BUBBLEMouseOutAnimationTime}$

Animation time when mouse moving out the element

BUBBLEMouseOutColor

Color when mouse moving out the element

 ${\tt BUBBLEMouseOutOpacity}$

Opacity when mouse moving out the element

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

BUBBLEMouseOverOpacity

Opacity when mouse moving over the element

 ${\tt BUBBLEMouseOverStrokeColor}$

Stroke color when mouse moving over the element

BUBBLEMouseOverStrokeWidth

Stroke width when mouse moving over the element

 ${\tt BUBBLEMouseOverTooltipsSetting}$

Default "style1"

BUBBLEMouseOverTooltipsHtml

Default " "

 ${\tt BUBBLEMouseOverTooltipsPosition}$

Default "absolute"

 ${\tt BUBBLEMouseOverTooltipsBackgroundColor}$

Default "white"

 ${\tt BUBBLEMouseOverTooltipsBorderStyle}$

Default "solid"

 ${\tt BUBBLEMouseOverTooltipsBorderWidth}$

Default 0

 ${\tt BUBBLEMouseOverTooltipsPadding}$

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

SNPMouseCombinationEvent

Default False, open/not COMBINATION module for SNP module

 ${\tt SNPMouseCombinationImageDisplay}$

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

 ${\tt SNPMouseCombinationImageTitle}$

Title of the image

SNPMouseCombinationImageTitleSize, SNPMouseCombinationImageTitleWeight, SNPMouseCombinationImageTitleSize, SnPMouseCombinationImageTitleWeight, SnPMouseCombina

 ${\tt SNPMouseCombinationImagePositionX, SNPMouseCombinationImagePositionY}$

Coordinates for image

SNPMouseCombinationImageHeight, SNPMouseCombinationImageWidth

Height and width of image

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

 ${\tt SNPMouseCombinationGraphType}$

Type of graph

 ${\sf SNPMouseCombinationGraphPositionX}, {\sf SNPMouseCombinationGraphPositionY}$

Coordinates for graph

 ${\tt SNPMouseCombinationGraphHeight, SNPMouseCombinationGraphWidth}$

Height and width for graph

 ${\tt SNPMouseCombinationGraphHistogramBarColor}$

Bar color of histogram graph

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

 ${\tt SNPMouseCombinationGraphPieSize}$

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

 ${\tt SNPMouseCombinationGraphLinePoint}$

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

SNPMouseCombinationGraphLinePointStrokeColor, SNPMouseCombinationGraphLinePointStrokeWidth The stroke color and width for broken point

 ${\tt SNPMouseCombinationGraphLinePointOpacity}$

Opacity for broken line

SNPMouseCombinationGraphLinePositionCorrectX

Correction distance of X axis for line

SNPMouseCombinationTextDisplay

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

SNPMouseCombinationTextColor, SNPMouseCombinationTextSize, SNPMouseCombinationTextWeight The color, size and weight for text

 ${\tt SNPMouseCombinationTextPositionCorrect X, SNPMouseCombinationTextPositionCorrect Y, SNPMouseCombinationCorrect Y, SNPMouseCorrect Y, SNP$

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

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

SNPMouseClickTextSize

Text size after clicking the element

 ${\tt SNPMouseClickTextPostionX, SNPMouseClickTextPostionY}$

Text coordinate after clicking the element

SNPMouseClickTextDrag

Whether text is draggable for element

SNPMouseDownDisplay

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

SNPMouseDownColor

Color after mouse moving down the element

 ${\tt SNPMouseDownCircleSize}$

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

SNPMouseEnterCircleSize

Circle size after mouse entering the element

SNPMouseEnterCircleOpacity

Circle opacity after mouse entering the element

SNPMouseEnterCircleStrokeColor

Circle stroke color after mouse entering the element

 ${\sf SNPMouseEnterCircleStrokeWidth}$

Circle stroke width after mouse entering the element

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

SNPMouseMoveCircleStrokeWidth

Circle stroke width after mouse moving in the element

 ${\tt SNPMouseOutDisplay}$

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

 ${\sf SNPMouseOutAnimationTime}$

Animation time when mouse moving over the element

SNPMouseOutColor

Color when mouse moving over the element

 ${\tt SNPMouseOutCircleSize}$

Circle size when mouse moving over the element

SNPMouseOutCircleOpacity

Opacity when mouse moving over the element

 ${\tt SNPMouseOutCircleStrokeColor}$

Stroke color when mouse moving over the element

 ${\tt SNPMouseOutCircleStrokeWidth}$

Stroke width when mouse moving over the element

 ${\tt SNPMouseUpDisplay}$

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

SNPMouseUpColor

Color after mouse moving up the element

 ${\tt SNPMouseUpCircleSize}$

Circle size after mouse moving up the element

SNPMouseUpCircleOpacity

Circle opacity after mouse moving up the element

 ${\tt SNPMouseUpCircleStrokeColor}$

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

LINKMouseDownDisplay

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

LINKMouseDownOpacity

Opacity when mouse moving down the element

LINKMouseDownStrokeColor

Stroke color when mouse moving down the element

LINKMouseDownStrokeWidth

Stroke width when mouse moving down the element

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

 ${\tt LINKMouseLeaveStrokeWidth}$

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

 ${\tt LINKMouseMoveStrokeColor}$

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 any-

more

LINKMouseOutAnimationTime

Animation time when mouse moving out the element

LINKMouseOutOpacity

Opacity when mouse moving out the element

 ${\tt LINKMouseOutStrokeColor}$

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

LINKMouseOverStrokeWidth

Stroke width when mouse moving over the element

LINKMouseOverTooltipsSetting

Default "style1"

LINKMouseOverTooltipsHtml

Default " "

 ${\tt LINKMouseOverTooltipsPosition}$

Default "absolute"

 ${\tt LINKMouseOverTooltipsBackgroundColor}$

Default "white"

LINKMouseOverTooltipsBorderStyle

Default "solid"

 ${\tt LINKMouseOverTooltipsBorderWidth}$

Default 0

LINKMouseOverTooltipsPadding

Default "3px"

LINKMouseOverTooltipsBorderRadius

Default "3px"

 ${\tt LINKMouseOverTooltipsOpacity}$

Default 0.8

LINKLabelDragEvent

Defalut False, draggable for the label of LINK module

CHORDMouseEvent

Default True, open/not open mouse event of CHORD module from NG-Circos

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

 ${\tt CHORDMouseDownStrokeColor}$

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

CHORDMouseEnterStrokeWidth

Stroke width when mouse entering the element

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

 ${\tt CHORDMouseLeaveStrokeWidth}\\$

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

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

 ${\tt CHORDMouseUpOpacity}$

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

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

HISTOGRAMMouseClickDisplay

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

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

 ${\tt HISTOGRAMMouseDownStrokeColor}$

Stroke color when mouse moving up the element

 ${\tt HISTOGRAMMouseDownStrokeWidth}$

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

HISTOGRAMMouseEnterStrokeColor

Stroke color when mouse entering the element

 ${\tt HISTOGRAMMouseEnterStrokeWidth}$

Stroke width when mouse entering the element

HISTOGRAMMouseLeaveDisplay

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

HISTOGRAMMouseLeaveColor

Color when mouse leaving the element

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

HISTOGRAMMouseMoveOpacity

Opacity when mouse moving in the element

 ${\tt HISTOGRAMMouseMoveStrokeColor}$

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

 ${\tt HISTOGRAMMouseOutStrokeColor}$

Stroke color when mouse moving out the element

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

 ${\tt HISTOGRAMMouseUpOpacity}$

Opacity when mouse moving up the element

 ${\tt HISTOGRAMMouseUpStrokeColor}$

Stroke color when mouse moving up the element

 ${\tt HISTOGRAMMouseUpStrokeWidth}$

Stroke width when mouse moving up the element

 ${\tt HISTOGRAMMouseOverDisplay}$

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

 ${\tt HISTOGRAMMouseOverColor}$

Color when mouse moving over the element

HISTOGRAMMouseOverOpacity

Opacity when mouse moving over the element

 ${\tt HISTOGRAMMouseOverStrokeColor}$

Stroke color when mouse moving over the element

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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

HISTOGRAMMouseOverTooltipsPadding

Default "3px"

HISTOGRAMMouseOverTooltipsBorderRadius

Default "3px"

 ${\tt HISTOGRAMMouseOverTooltipsOpacity}$

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

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

Stroke color when mouse clicking the element

 ${\tt LINE Mouse Click Line Stroke Width}$

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

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

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

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

Stroke color when mouse entering the element

 ${\tt LINEMouseEnterLineStrokeWidth}$

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

 ${\tt LINEMouseLeaveLineStrokeColor}$

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

LINEMouseMoveLineOpacity

Line opacity when mouse moving in the element

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

Stroke color when mouse moving in the element

LINEMouseMoveLineStrokeWidth

Stroke width when mouse moving in the element

LINEMouseOutDisplay

Defalut False, hide/not tooltip when mouse is not hovering a LINE point any-

LINEMouseOutAnimationTime

Animation time when mouse moving out the element

LINEMouseOutLineOpacity

Line opacity when mouse moving out the element

LINEMouseOutLineStrokeColor

Stroke color when mouse moving out the element

LINEMouseOutLineStrokeWidth

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 " "

LINEMouseOverTooltipsPosition

Default "absolute"

LINEMouseOverTooltipsBackgroundColor

Default "white"

 ${\tt LINE Mouse Over Tooltips Border Style}$

Default "solid"

LINEMouseOverTooltipsBorderWidth

Default 0

LINEMouseOverTooltipsPadding

Default "3px"

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

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

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

 ${\tt WIGMouseEnterLineStrokeWidth}$

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

 ${\tt WIGMouseLeaveLineStrokeColor}$

Stroke color when mouse leaving the element

 ${\tt WIGMouseLeaveLineStrokeWidth}$

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

WIGMouseOverLineStrokeColor

Stroke color when mouse moving over the element

 ${\tt WIGMouseOverLineStrokeWidth}$

Stroke width when mouse moving over the element

WIGMouseOverFillColor

Filling color when mouse moving over the element

WIGMouseOverTooltipsSetting

Default "style1"

WIGMouseOverTooltipsHtml

Default " "

WIGMouseOverTooltipsPosition

Default "absolute"

WIGMouseOverTooltipsBackgroundColor

Default "white"

WIGMouseOverTooltipsBorderStyle

Default "solid"

WIGMouseOverTooltipsBorderWidth

Default 0

WIGMouseOverTooltipsPadding

Default "3px"

WIGMouseOverTooltipsBorderRadius

Default "3px"

WIGMouseOverTooltipsOpacity

Default 0.8

SCATTERxlink Default False, add/not xlink for SCATTER module

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

 ${\tt SCATTERMouseClickCircleSize}$

Circle size when mouse clicking the element

SCATTERMouseClickCircleOpacity

Circle opacity when mouse clicking the element

 ${\tt SCATTERMouseClickCircleStrokeColor}$

Circle stroke color when mouse clicking the element

 ${\tt SCATTERMouseClickCircleStrokeWidth}$

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

 ${\tt SCATTERMouseClickTextColor}$

Text color when mouse clicking the element

SCATTERMouseClickTextSize

Text size when mouse clicking the element

 ${\tt SCATTERMouseClickTextPostionX, SCATTERMouseClickTextPostionY}$

Text coordinates when mouse clicking the element

SCATTERMouseClickTextDrag

Whether text is draggable when clicing element

 ${\sf SCATTERMouseDownDisplay}$

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

 ${\tt SCATTERMouseDownColor}$

Color when mouse moving down the element

 ${\tt SCATTERMouseDownCircleSize}$

Circle size when mouse moving down the element

 ${\tt SCATTERMouseDownCircleOpacity}$

Circle opacity when mouse moving down the element

 ${\tt SCATTERMouseDownCircleStrokeColor}$

Circle stroke color when mouse moving down the element

SCATTERMouseDownCircleStrokeWidth

Circle stroke width when mouse moving down the element

SCATTERMouseEnterDisplay

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

 ${\tt SCATTERMouseEnterColor}$

Color when mouse entering the element

SCATTERMouseEnterCircleSize

Circle size when mouse entering the element

SCATTERMouseEnterCircleOpacity

Circle opacity when mouse entering the element

SCATTERMouseEnterCircleStrokeColor

Circle stroke color when mouse entering the element

SCATTERMouseEnterCircleStrokeWidth

Circle stroke width when mouse entering the element

SCATTERMouseLeaveDisplay

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

 ${\sf SCATTERMouseLeaveColor}$

Color when mouse leaving the element

SCATTERMouseLeaveCircleSize

Circle size when mouse leaving the element

 ${\tt SCATTERMouseLeaveCircleOpacity}$

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

 ${\tt SCATTERMouseMoveColor}$

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

SCATTERMouseMoveCircleStrokeColor

Circle stroke color when mouse moving in the element

 ${\tt SCATTERMouseMoveCircleStrokeWidth}$

Circle stroke width when mouse moving in the element

SCATTERMouseOutDisplay

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

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

SCATTERMouseOutCircleStrokeColor

Circle stroke color when mouse moving out the element

SCATTERMouseOutCircleStrokeWidth

Circle stroke width when mouse moving out the element

SCATTERMouseUpDisplay

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

SCATTERMouseUpColor

Color when mouse moving up the element

SCATTERMouseUpCircleSize

Circle size when mouse moving up the element

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

 ${\tt SCATTERMouseOverCircleStrokeWidth}$

Circle stroke width when mouse moving over the element

 ${\tt SCATTERMouseOverTooltipsSetting}$

Default "style1"

 ${\tt SCATTERMouseOverTooltipsHtml}$

Default " "

 ${\tt SCATTERMouseOverTooltipsPosition}$

Default "absolute"

 ${\tt SCATTERMouseOverTooltipsBackgroundColor}$

Default "white"

 ${\tt SCATTERMouseOverTooltipsBorderStyle}$

Default "solid"

SCATTERMouseOverTooltipsBorderWidth

Default 0

 ${\tt SCATTERMouseOverTooltipsPadding}$

Default "3px"

 ${\tt SCATTERMouseOverTooltipsBorderRadius}$

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

 ${\tt ARCMouseClickArcStrokeColor}$

Arc stroke color when mouse clicking the element

ARCMouseClickArcStrokeWidth

Arc stroke width when mouse clicking the element

ARCMouse Click Text From Data

Text column when mouse clicking the element

ARCMouseClickTextOpacity

Text opacity when mouse clicking the element

ARCMouseClickTextColor

Text color when mouse clicking the element

 ${\tt ARCMouseClickTextSize}$

Text size when mouse clicking the element

ARCMouse Click Text Postion X, ARCMouse Click Text Postion Y

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

 ${\tt ARCMouseDownArcOpacity}$

Arc opacity when mouse moving down the element

 ${\tt ARCMouseDownArcStrokeColor}$

Arc stroke color when mouse moving down the element

 ${\tt ARCMouseDownArcStrokeWidth}$

Arc stroke width when mouse moving down the element

ARCMouseEnterDisplay

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

 ${\tt ARCMouseEnterColor}$

Color when mouse entering the element

 ${\tt ARCMouseEnterArcOpacity}$

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

 ${\tt ARCMouseLeaveArcStrokeColor}$

Arc stroke color when mouse leaving the element

ARCMouseLeaveArcStrokeWidth

Arc stroke width when mouse leaving the element

ARCMouseMoveDisplay

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

 ${\tt ARCMouseMoveArcStrokeWidth}$

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

 ${\tt ARCMouseOutArcOpacity}$

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

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 " "

ARCMouseOverTooltipsPosition

Default "absolute"

ARCMouse Over Tool tips Background Color

Default "white"

ARCMouseOverTooltipsBorderStyle

Default "solid"

ARCMouseOverTooltipsBorderWidth

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

 ${\tt GENEMouseClickArcStrokeWidth}$

Arc stroke width when mouse clicking the element

 ${\tt GENEMouseClickTextFromData}$

Text column when mouse clicking the element

GENEMouseClickTextOpacity

Text opacity when mouse clicking the element

 ${\tt GENEMouseClickTextColor}$

Text color when mouse clicking the element

 ${\tt GENEMouseClickTextSize}$

Text size when mouse clicking the element

 ${\tt GENEMouseClickTextPostionX,\,GENEMouseClickTextPostionY}$

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

GENEMouseEnterArcStrokeColor

Arc stroke color when mouse entering the element

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

GENEMouseLeaveArcStrokeColor

Arc stroke color when mouse leaving the element

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

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

 ${\sf GENEMouseOutAnimationTime}$

Animation time when mouse moving out the element

GENEMouseOutColor

Color when mouse moving out the element

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

GENEMouseUpArcStrokeColor

Arc stroke color when mouse moving up the element

 ${\tt GENEMouseUpArcStrokeWidth}$

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

 ${\tt GENEMouseOverArcStrokeWidth}$

Arc stroke width when mouse moving over the element

GENEMouseOverTooltipsSetting

Default "style1"

GENEMouseOverTooltipsHtml

Default " "

 ${\tt GENEMouseOverTooltipsPosition}$

Default "absolute"

 ${\tt GENEMouseOverTooltipsBackgroundColor}$

Default "white"

 ${\tt GENEMouseOverTooltipsBorderStyle}$

Default "solid"

GENEMouseOverTooltipsBorderWidth

Default 0

 ${\tt GENEMouseOverTooltipsPadding}$

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

LOLLIPOPMouseClickTextFromData

Text column when mouse clicking the element

LOLLIPOPMouseClickTextOpacity

Text opacity when mouse clicking the element

 ${\tt LOLLIPOPMouseClickTextColor}$

Text color when mouse clicking the element

LOLLIPOPMouseClickTextSize

Text size when mouse clicking the element

LOLLIPOPMouseClickTextPostionX, LOLLIPOPMouseClickTextPostionY

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

 $\verb+LOLLIPOPMouseDownCircleStrokeColor+\\$

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

 $\verb|LOLLIPOPMouseEnterCircleStrokeColor|\\$

Circle stroke color when mouse entering the element

 $\verb|LOLLIPOPMouseEnterCircleStrokeWidth|\\$

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

LOLLIPOPMouseLeaveCircleStrokeColor

Circle stroke color when mouse leaving the element

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

LOLLIPOPMouseMoveCircleSize

Circle size when mouse moving in the element

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

 $\verb|LOLLIPOPMouseOutCircleStrokeColor| \\$

Circle stroke color when mouse moving out the element

 $\verb|LOLLIPOPMouseOutCircleStrokeWidth|\\$

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

 ${\tt LOLLIPOPMouseUpCircleSize}$

Circle size when mouse moving up the element

LOLLIPOPMouseUpCircleOpacity

Circle opacity when mouse moving up the element

 $\verb|LOLLIPOPMouseUpCircleStrokeColor| \\$

Circle stroke color when mouse moving up the element

 $\verb|LOLLIPOPMouseUpCircleStrokeWidth|\\$

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"

LOLLIPOPMouseOverTooltipsHtml

Default " "

LOLLIPOPMouseOverTooltipsPosition

Default "absolute"

 $\verb|LOLLIPOPMouseOverTooltipsBackgroundColor| \\$

Default "white"

 $\verb|LOLLIPOPMouseOverTooltipsBorderStyle| \\$

Default "solid"

 $\verb|LOLLIPOPMouseOverTooltipsBorderWidth|\\$

Default 0

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

genomeTicksDisplay, genomeTicksLen, genomeTicksColor, genomeTicksTextSize, genomeTicksTextColor, genomeTicksDisplay is TRUE and their details are

available on document

Value

The main figure for interacCircos with all tracks

Examples

Circos(genome = "hg19")

52 CircosArc

CircosArc

ARC module

Description

Create the CNV plot without value, Gene domain, Chromosome band

Usage

```
CircosArc(
  modulename,
  compareGroup = 1,
  outerRadius = 150,
  innerRadius = 130,
  opacity = 1,
  animationDisplay = FALSE,
  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
innerRadius, outerRadius
                  Where the module should begin and end
opacity
                 The opacity for arc
animationDisplay
                  Whether display animation
animationTime, animationDelay, animationType
                 The time, delay and display type for animation
                 A list of arc with details including chr, start, end, color, des, link and html.
data
                 Details can be found on document
                 Ignored
```

Value

The module tracks for arc modules

Examples

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

CircosAuxLine 53

CircosAuxLine AUXILIARYLINE module

Description

A auxiliary line for better explaination of the visualization

Usage

```
CircosAuxLine(
  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	

54 CircosBackground

Value

The module tracks for auxliary line modules

Examples

```
Circos(CircosAuxLine('AuxLine01'))
```

CircosBackground

BACKGROUND module

Description

Background for better display of other modules

Usage

```
CircosBackground(
  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",
)
```

CircosBubble 55

Arguments

```
modulename
                  The name of the new module
compareGroup
                  The group number of this module in compare module
fillColors
                  The filling color of the module
borderColors
                  The border color of the module
axisShow
                  Whether show a axis or not
axisWidth, axisColor, axisOpacity, axisNum
                  The color, opacity value and number of line for axis
minRadius, maxRadius
                  The outer and inner ring range of module
                  The thickness of the border
borderSize
animationDisplay
                  Whether display animation or not
\verb"animationTime", animationDelay, animationType"
                  The time, delay and display type for animation
                  Ignored
```

Value

The module tracks for background modules.

Examples

```
Circos(CircosBackground('bg01', fillColors="#FFEEEE", borderSize = 1))
```

CircosBubble

BUBBLE module

Description

Create a bubble plot

Usage

```
CircosBubble(
  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",
```

56 CircosBubble

```
ValueAxisManualScale = FALSE,
ValueAxisMaxScale = 10,
ValueAxisMinScale = 0,
totalLayer = 1,
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

The outer and inner ring range of module

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 of min value

maxColor The color the bubble of max value

ValueAxisManualScale

Whether manually control the scale of value

 ${\tt Value Axis Max Scale, Value Axis Min Scale}$

The max and min scale value for manually control

totalLayer The color and width for stroke

animationDisplay

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

Value

The module tracks for bubble modules

CircosChord 57

Examples

```
bubbleData<-bubbleExample
Circos(CircosBubble('Bubble01', maxRadius = 230, minRadius = 170, data=bubbleData,
blockStroke = TRUE, bubbleMaxSize =10, bubbleMinSize = 2, maxColor = "red", minColor = "yellow",
totalLayer =3, animationDisplay = TRUE, animationType="linear"),
genome = list("2L"=23011544,"2R"=21146708,"3L"=24543557,"3R"= 27905053,"X"=22422827,"4"=1351857),
BUBBLEMouseOverDisplay =TRUE,innerRadius = 236)</pre>
```

CircosChord

CHORD module of NG-Circos

Description

Create a chord module using a data matrix

Usage

```
CircosChord(
  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 Whether auto assign color for chord autoFillColor fillColor If not, manually assign color for chord 58 CircosChord.p

```
fillStrokeColor
                  The color for stroke
outerARC
                  Whether display outer arc
outerARCAutoColor
                  If true, whether auto assign color for arc
                  The manullay assigned color for arc
outerARCColor
outerARCStrokeColor
                  The stroke color for arc
outerARCText
                  Whether display text for arc or not
                  A matrix-list of chord value with relationship details
data
                  Ignored
. . .
```

Value

The module tracks for chord modules of NG-Circos

Examples

```
chordData<-chordExample
Circos(CircosChord('CHORD', data = chordData,innerRadius= 210,outerRadius= 211,fillOpacity=0.67,
strokeColor="black",strokeWidth= "1px",outerARCText=FALSE),genome=list("C.CK" = 189.51,"C.NPK"=188,
"GC.CK"=186.11, "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"=6.15, "Verrucomicrobia"=8.3,
"Ascomycota"=159.41, "Basidiomycota"=79.73,"Zygomycota"=139.29 ),outerRadius = 217,
genomeLabelDisplay = FALSE)</pre>
```

CircosChord.p

CHORD module of circosJS

Description

Create a chord module using a data path. chord.p meaens chord plot based on path

Usage

```
CircosChord.p(
  modulename,
  radius = 216,
  opacity = 0.67,
  color = "#B8B8B8",
  data,
  ...
)
```

CircosCnv 59

Arguments

modulename The name of the new module
radius The radius for chord circle
opacity The opacity for chord
color The color for chord
data A list of chord value with relationship details, details could be found on chord.pExample
... Ignored

Value

The module tracks for chord modules of circosJS

Examples

```
chord.pData<-chord.pExample
Circos()</pre>
```

CircosCnv

CNV module

Description

Create a copy number variance module

Usage

```
CircosCnv(
  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,
)
```

60 CircosGene

Arguments

modulename The name of the new module

compareGroup The group number of this module in compare module

maxRadius, minRadius

The outer and inner ring range of module

width Width for CNV module color Color for CNV module

ValueAxisManualScale

Whether manually control the scale of value or not

ValueAxisMaxScale, ValueAxisMinScale

The max and min scale value for manually control

strokeColor, strokeWidth

The color and width for stroke

opacity The opacity for module

animationDisplay

Whether display animationn

animationTime, animationDelay, animationType

The time, delay and display type for animationn

data A list of CNV with details including start, end, value, link, color and html.

Details can be found on document

.. Ignored

Value

The module tracks for cnv modules

Examples

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

CircosGene

GENE module

Description

Create a number of genes with different functional region

CircosGene 61

Usage

```
CircosGene(
  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,
)
```

Arguments

```
modulename
                 The name of the new module
compareGroup
                 The group number of this module in compare module
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, cdsStrokeColor, 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
                 A list of gene with details including chr, strand, start, end, type, name, link and
data
                 html. Details can be found on document
                 Ignored
. . .
```

62 CircosHeatmap

Value

The module tracks for gene modules

Examples

```
geneData<-geneExample
Circos(CircosGene('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>
```

CircosHeatmap

HEATMAP module

Description

Create a heatmap plot

Usage

```
CircosHeatmap(
  modulename,
  compareGroup = 1,
  maxRadius = 180,
  minRadius = 100,
  minColor = "red"
  maxColor = "green",
  ValueAxisManualScale = FALSE,
  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 of min value

maxColor The color for heatmap of max value
```

CircosHistogram 63

```
ValueAxisManualScale
```

Whether manually control the scale of value

ValueAxisMaxScale, ValueAxisMinScale

The max and min scale value for manually control

totalLayer The color animationDisplay

The color and width for stroke

V

Whether display animation

animationDirection

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

 $animation {\tt Color Direction}$

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

Value

The module tracks for heatmap modules.

Examples

```
heatmapData<-heatmapExample
Circos(CircosHeatmap('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>
```

CircosHistogram

HISTOGRAM module

Description

Create a multi-layer histogram plot

Usage

```
CircosHistogram(
modulename,
compareGroup = 1,
maxRadius = 108,
minRadius = 95,
ValueAxisManualScale = FALSE,
ValueAxisMaxScale = 10,
ValueAxisMinScale = 0,
fillColor = "red",
animationDisplay = FALSE,
```

64 CircosLegend

```
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

Value

The module tracks for histogram modules

Examples

```
histogramData<-histogramExample
Circos(CircosHistogram('HISTOGRAM01', data = histogramData,fillColor= "#ff7f0e",maxRadius = 210,
minRadius = 175),genome=list("2L"=23011544,"2R"=21146708,"3L"=24543557,"3R"= 27905053,
"X"=22422827,"4"=1351857),
outerRadius = 220)</pre>
```

CircosLegend

LEGEND module

Description

Simple legend annotation displayed in the visualization

CircosLegend 65

Usage

```
CircosLegend(
  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	The coordinates if legend	
title	The title for legend	
size	Font size for title	
weight	Font weight for title. Should be either "normal", "bold", "bolder" or "lighter"	
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	

Value

The module tracks for legend modules.

Examples

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

66 CircosLine

CircosLine

LINE module

Description

Create a multi-layer line plot

Usage

```
CircosLine(
  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 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

The name of the new module

CircosLink 67

A list of value with details including chr, pos, des, value and html. Details can be found on document

... Ignored

Value

The module tracks for line modules

Examples

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

CircosLink

LINK module

Description

Create a link of two specific region in genome

Usage

```
CircosLink(
  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,
)
```

68 CircosLink

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
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

Value

The module tracks for link modules

Examples

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

CircosLollipop 69

CircosLollipop LO

LOLLIPOP module

Description

Create a lollipop plot

Usage

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

70 CircosModuleList

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

lineAutoMaximumHeightZoomRate

If auto assign, the zoom rate for each lollipop

 $\label{lineHeightRate} \mbox{ If manually assign, the rate of lollipop compared to real value}$

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

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

Value

The module tracks for lollipop modules.

Examples

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

 ${\tt CircosModuleList}$

Create a list of modules

Description

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

CircosScatter 71

Usage

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

Value

The list of all tracks of modules.

CircosScatter

SCATTER module

Description

Create a point plot

Usage

```
CircosScatter(
  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,
)
```

72 CircosSnp

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

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

Value

The module tracks for scatter modules

Examples

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

CircosSnp SNP module

Description

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

CircosSnp 73

Usage

```
CircosSnp(
 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,
)
```

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 animationInitialPositionX, animationInitialPositionY The initial position coordinates for animation animationTime, animationDelay, animationType The time, delay and display type for animation

74 CircosText

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

Value

The module tracks for snp modules

Examples

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

CircosText

Text module

Description

Text for better explaination of other modules

Usage

```
CircosText(
  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",
)
```

CircosWig 75

Arguments

modulename The name of the new module The details of text text The coordinates of the text х, у Font size size weight Font weight. Should be either "normal", "bold", "bolder" or "lighter" opacity Font opacity color Font color rotateRate ratate rate for text animationDisplay Whether display 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 animationTime, animationDelay, animationType The time, delay and display type for animation

Value

The module tracks for text modules.

Ignored

Examples

```
Circos(CircosText('text01', 'Annotation', color = '#DD2222', x = -40))
```

CircosWig WIG module

Description

Create a multi-layer line plot

76 CircosWig

Usage

```
CircosWig(
  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

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

 $animation {\tt Time, animation Delay, animation Type}$

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

Value

The module tracks for wig modules

cnvExample 77

Examples

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

cnvExample

Cnv module example data

Description

The data is in matrix with column 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 column names

Usage

geneExample

78 heatmapExample

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

html The external html language

heatmapExample

Heatmap plot example data

Description

The data is in matrix with column 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

hg19_ideogram 79

hg19_ideogram

Ideogram for hg19

Description

The ideogram for human hg19 reference including the color for each region

Usage

```
hg19_ideogram
```

Format

A data frame with 4 columns:

chr chromosomestart start positionend end position

color color

 $\verb|histogramExample||$

Histogram plot example data

Description

The data is in matrix with column 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

80 linkExample

lineExample

Line plot example data

Description

The data is in matrix with column 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 column 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

lollipopExample 81

 ${\tt lollipopExample}$

Lollipop plot example data

Description

The data is in matrix with column 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

scatterExample

Scatter plot example data

Description

The data is in matrix with column names

Usage

scatterExample

82 snpExample

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

snpExample

Snp plot example data

Description

The data is in matrix with column 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

wigExample 83

wigExample

Wig plot example data

Description

The data is in matrix with column names

Usage

wigExample

Format

A data frame with 5 columns:

chr chromosome

pos position

des description

value value

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