Package 'interacCircos'

January 24, 2026

Type Package

Title The Generation of Interactive Circos Plot

Description Implement in an efficient approach to display the genomic data, relationship, information in an interactive circular genome(Circos) plot. 'interacCircos' are inspired by 'circosJS', 'BioCircos.js' and 'NG-Circos' and we integrate the modules of 'circosJS', 'BioCircos.js' and 'NG-Circos' into this R package, based on 'htmlwidgets' framework.

Version 1.21.0

License GPL-3

Encoding UTF-8

LazyData true

Depends R (>= 4.1)

Imports RColorBrewer, htmlwidgets, plyr, methods

RoxygenNote 7.1.1

Suggests knitr, rmarkdown

VignetteBuilder knitr

biocViews Visualization

git_url https://git.bioconductor.org/packages/interacCircos

git_branch devel

git_last_commit c590f9b

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Contents

`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` *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

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(
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  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,
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SCATTERMouseEnterCircleOpacity = 1,
SCATTERMouseEnterCircleStrokeColor = "none",
SCATTERMouseEnterCircleStrokeWidth = "none",
SCATTERMouseLeaveDisplay = FALSE,
SCATTERMouseLeaveColor = "red",
SCATTERMouseLeaveCircleSize = 2,
SCATTERMouseLeaveCircleOpacity = 1,
SCATTERMouseLeaveCircleStrokeColor = "none",
SCATTERMouseLeaveCircleStrokeWidth = "none",
SCATTERMouseMoveDisplay = FALSE,
SCATTERMouseMoveColor = "red",
SCATTERMouseMoveCircleSize = 2,
SCATTERMouseMoveCircleOpacity = 1,
SCATTERMouseMoveCircleStrokeColor = "none",
SCATTERMouseMoveCircleStrokeWidth = "none",
SCATTERMouseOutDisplay = FALSE,
SCATTERMouseOutAnimationTime = 500,
SCATTERMouseOutColor = "red",
SCATTERMouseOutCircleSize = 2,
SCATTERMouseOutCircleOpacity = 1,
SCATTERMouseOutCircleStrokeColor = "none",
SCATTERMouseOutCircleStrokeWidth = "none",
SCATTERMouseUpDisplay = FALSE,
SCATTERMouseUpColor = "red",
SCATTERMouseUpCircleSize = 2,
SCATTERMouseUpCircleOpacity = 1,
SCATTERMouseUpCircleStrokeColor = "none",
SCATTERMouseUpCircleStrokeWidth = "none",
SCATTERMouseOverDisplay = FALSE,
SCATTERMouseOverColor = "red",
SCATTERMouseOverCircleSize = 2,
SCATTERMouseOverCircleOpacity = 1,
SCATTERMouseOverCircleStrokeColor = "none",
```

```
SCATTERMouseOverCircleStrokeWidth = "none",
SCATTERMouseOverTooltipsSetting = "style1",
SCATTERMouseOverTooltipsHtml = " ",
SCATTERMouseOverTooltipsPosition = "absolute",
SCATTERMouseOverTooltipsBackgroundColor = "white",
SCATTERMouseOverTooltipsBorderStyle = "solid",
SCATTERMouseOverTooltipsBorderWidth = 0,
SCATTERMouseOverTooltipsPadding = "3px",
SCATTERMouseOverTooltipsBorderRadius = "3px",
SCATTERMouseOverTooltipsOpacity = 1,
ARCxlink = FALSE,
ARCMouseEvent = TRUE,
ARCMouseClickDisplay = FALSE,
ARCMouseClickColor = "red",
ARCMouseClickArcOpacity = 1,
ARCMouseClickArcStrokeColor = "none",
ARCMouseClickArcStrokeWidth = "none",
ARCMouseClickTextFromData = "fourth",
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",
ARCMouseOutArcOpacity = 1,
```

```
ARCMouseOutArcStrokeColor = "none",
ARCMouseOutArcStrokeWidth = "none",
ARCMouseUpDisplay = FALSE,
ARCMouseUpColor = "red",
ARCMouseUpArcOpacity = 1,
ARCMouseUpArcStrokeColor = "none",
ARCMouseUpArcStrokeWidth = "none",
ARCMouseOverDisplay = FALSE,
ARCMouseOverColor = "red",
ARCMouseOverArcOpacity = 1,
ARCMouseOverArcStrokeColor = "none",
ARCMouseOverArcStrokeWidth = "none",
ARCMouseOverTooltipsSetting = "style1",
ARCMouseOverTooltipsHtml = " ",
ARCMouseOverTooltipsPosition = "absolute",
ARCMouseOverTooltipsBackgroundColor = "white",
ARCMouseOverTooltipsBorderStyle = "solid",
ARCMouseOverTooltipsBorderWidth = 0,
ARCMouseOverTooltipsPadding = "3px",
ARCMouseOverTooltipsBorderRadius = "3px",
ARCMouseOverTooltipsOpacity = 1,
GENExlink = FALSE,
GENEMouseEvent = TRUE,
GENEMouseClickDisplay = FALSE,
GENEMouseClickColor = "red",
GENEMouseClickArcOpacity = 1,
GENEMouseClickArcStrokeColor = "none",
GENEMouseClickArcStrokeWidth = "none",
GENEMouseClickTextFromData = "fourth",
GENEMouseClickTextOpacity = 1,
GENEMouseClickTextColor = "red",
GENEMouseClickTextSize = 8,
GENEMouseClickTextPostionX = 1,
GENEMouseClickTextPostionY = 10,
GENEMouseClickTextDrag = TRUE,
GENEMouseDownDisplay = FALSE,
GENEMouseDownColor = "red",
GENEMouseDownArcOpacity = 1,
GENEMouseDownArcStrokeColor = "none",
GENEMouseDownArcStrokeWidth = "none",
GENEMouseEnterDisplay = FALSE,
GENEMouseEnterColor = "red",
GENEMouseEnterArcOpacity = 1,
GENEMouseEnterArcStrokeColor = "none",
GENEMouseEnterArcStrokeWidth = "none",
GENEMouseLeaveDisplay = FALSE,
GENEMouseLeaveColor = "red",
GENEMouseLeaveArcOpacity = 1,
```

```
GENEMouseLeaveArcStrokeColor = "none",
GENEMouseLeaveArcStrokeWidth = "none",
GENEMouseMoveDisplay = FALSE,
GENEMouseMoveColor = "red",
GENEMouseMoveArcOpacity = 1,
GENEMouseMoveArcStrokeColor = "none",
GENEMouseMoveArcStrokeWidth = "none",
GENEMouseOutDisplay = FALSE,
GENEMouseOutAnimationTime = 500,
GENEMouseOutColor = "red",
GENEMouseOutArcOpacity = 1,
GENEMouseOutArcStrokeColor = "none",
GENEMouseOutArcStrokeWidth = "none",
GENEMouseUpDisplay = FALSE,
GENEMouseUpColor = "red",
GENEMouseUpArcOpacity = 1,
GENEMouseUpArcStrokeColor = "none",
GENEMouseUpArcStrokeWidth = "none",
GENEMouseOverDisplay = FALSE,
GENEMouseOverColor = "red",
GENEMouseOverArcOpacity = 1,
GENEMouseOverArcStrokeColor = "none",
GENEMouseOverArcStrokeWidth = "none",
GENEMouseOverTooltipsSetting = "style1",
GENEMouseOverTooltipsHtml = " ",
GENEMouseOverTooltipsPosition = "absolute",
GENEMouseOverTooltipsBackgroundColor = "white",
GENEMouseOverTooltipsBorderStyle = "solid",
GENEMouseOverTooltipsBorderWidth = 0,
GENEMouseOverTooltipsPadding = "3px",
GENEMouseOverTooltipsBorderRadius = "3px",
GENEMouseOverTooltipsOpacity = 1,
LOLLIPOPxlink = FALSE,
LOLLIPOPMouseEvent = TRUE,
LOLLIPOPMouseClickDisplay = FALSE,
LOLLIPOPMouseClickColor = "red",
LOLLIPOPMouseClickCircleSize = 2,
LOLLIPOPMouseClickCircleOpacity = 1,
LOLLIPOPMouseClickCircleStrokeColor = "none",
LOLLIPOPMouseClickCircleStrokeWidth = "none",
LOLLIPOPMouseClickTextFromData = "fourth",
LOLLIPOPMouseClickTextOpacity = 1,
LOLLIPOPMouseClickTextColor = "red",
LOLLIPOPMouseClickTextSize = 8,
LOLLIPOPMouseClickTextPostionX = 1,
LOLLIPOPMouseClickTextPostionY = 10,
LOLLIPOPMouseClickTextDrag = TRUE,
LOLLIPOPMouseDownDisplay = FALSE,
```

```
LOLLIPOPMouseDownColor = "red",
LOLLIPOPMouseDownCircleSize = 2,
LOLLIPOPMouseDownCircleOpacity = 1,
LOLLIPOPMouseDownCircleStrokeColor = "none",
LOLLIPOPMouseDownCircleStrokeWidth = "none",
LOLLIPOPMouseEnterDisplay = FALSE,
LOLLIPOPMouseEnterColor = "red",
LOLLIPOPMouseEnterCircleSize = 2,
LOLLIPOPMouseEnterCircleOpacity = 1,
LOLLIPOPMouseEnterCircleStrokeColor = "none",
LOLLIPOPMouseEnterCircleStrokeWidth = "none",
LOLLIPOPMouseLeaveDisplay = FALSE,
LOLLIPOPMouseLeaveColor = "red",
LOLLIPOPMouseLeaveCircleSize = 2,
LOLLIPOPMouseLeaveCircleOpacity = 1,
LOLLIPOPMouseLeaveCircleStrokeColor = "none",
LOLLIPOPMouseLeaveCircleStrokeWidth = "none",
LOLLIPOPMouseMoveDisplay = FALSE,
LOLLIPOPMouseMoveColor = "red",
LOLLIPOPMouseMoveCircleSize = 2,
LOLLIPOPMouseMoveCircleOpacity = 1,
LOLLIPOPMouseMoveCircleStrokeColor = "none",
LOLLIPOPMouseMoveCircleStrokeWidth = "none",
LOLLIPOPMouseOutDisplay = FALSE,
LOLLIPOPMouseOutAnimationTime = 500,
LOLLIPOPMouseOutColor = "red",
LOLLIPOPMouseOutCircleSize = 2,
LOLLIPOPMouseOutCircleOpacity = 1,
LOLLIPOPMouseOutCircleStrokeColor = "none",
LOLLIPOPMouseOutCircleStrokeWidth = "none",
LOLLIPOPMouseUpDisplay = FALSE,
LOLLIPOPMouseUpColor = "red",
LOLLIPOPMouseUpCircleSize = 2,
LOLLIPOPMouseUpCircleOpacity = 1,
LOLLIPOPMouseUpCircleStrokeColor = "none",
LOLLIPOPMouseUpCircleStrokeWidth = "none",
LOLLIPOPMouseOverDisplay = FALSE,
LOLLIPOPMouseOverColor = "red",
LOLLIPOPMouseOverCircleSize = 2,
LOLLIPOPMouseOverCircleOpacity = 1,
LOLLIPOPMouseOverCircleStrokeColor = "none",
LOLLIPOPMouseOverCircleStrokeWidth = "none",
LOLLIPOPMouseOverTooltipsSetting = "style1",
LOLLIPOPMouseOverTooltipsHtml = " ",
LOLLIPOPMouseOverTooltipsPosition = "absolute",
LOLLIPOPMouseOverTooltipsBackgroundColor = "white",
LOLLIPOPMouseOverTooltipsBorderStyle = "solid",
LOLLIPOPMouseOverTooltipsBorderWidth = 0,
```

```
  LOLLIPOPMouseOverTooltipsPadding = "3px",
  LOLLIPOPMouseOverTooltipsBorderRadius = "3px",
  LOLLIPOPMouseOverTooltipsOpacity = 1,
  elementId = NULL,
  ...
)
```

Arguments

moduleList	Module list displayed in plot
genome	Could be either 'hg19', which is defaultly set to use chromosomes of hg19, or a list of chromosomes with length, for example, list("chr1"=100,"chr2"=200)
genome2	Second genome when compare module is applied, format is same as genome
genomeFillColor	Could be either a color palette from RColorBrewer, or a list of color name, for example, list("yellow","rgb(1,255,255)")
chrPad	Distance between each chromosome, default is 0.04
width, height	The width and height for svg element, could be px or percent or auto
innerRadius	Default 216, Inner radius of chromosome
outerRadius	Default 240, Outer radius of chromosome
svgClassName	The svg class name
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
genomeTicksLen, genomeTicksColor, genomeTicksTextSize, genomeTicksTextColor, genomeTicksScale, genomeTicksRealLength, genomeTicksOffset	arameters only works when genomeTicksDisplay is TRUE and their details are available on document
genomeLabelDisplay, genomeLabelTextSize, genomeLabelTextColor, genomeLabelDx, genomeLabelDy	Whether display the label for chromosome panel. Other parameters only works when genomeTicksDisplay is TRUE and their details are available on document
compareEvent	Default False, open/not COMPARE module
compareEventGroupGapRate	Default 0.1, control the two-side gap rate on each group of genome
compareEventGroupDistance	Default 0, distance between two groups of genome
zoom	Whether or not the plot is zoomable?
TEXTModuleDragEvent	Are text annotations draggable?

CNVxlink Default False, add/not xlink for CNV module

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

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

CNVMouseClickColor
Color when mouse clicking

CNVMouseClickArcOpacity
Arc opacity when mouse clicking the element

CNVMouseClickArcStrokeColor
Arc stroke color when mouse clicking the element

CNVMouseClickArcStrokeWidth
Arc stroke width when mouse clicking the element

CNVMouseClickTextFromData
Text column when mouse clicking the element

CNVMouseClickTextOpacity
Text opacity when mouse clicking the element

CNVMouseClickTextColor
Text color when mouse clicking the element

CNVMouseClickTextSize
Text size when mouse clicking the element

CNVMouseClickTextPostionX, CNVMouseClickTextPostionY
Text coordinates when mouse clicking the element

CNVMouseClickTextDrag
Whether text is draggable when mouse clicking the element

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

CNVMouseDownColor
Color when mouse moving down the element

CNVMouseDownArcOpacity
Arc opacity when mouse moving down the element

CNVMouseDownArcStrokeColor
Arc stroke color when mouse moving down the element

CNVMouseDownArcStrokeWidth
Arc stroke width when mouse moving down the element

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

CNVMouseEnterColor
Color when mouse entering the element

CNVMouseEnterArcOpacity
Arc opacity when mouse entering the element

CNVMouseEnterArcStrokeColor
Arc stroke color when mouse entering the element

CNVMouseEnterArcStrokeWidth
Arc stroke width when mouse entering the element

`CNVMouseLeaveDisplay`
: Default False, show/not the tooltip when mouse mover leave a CNV point

`CNVMouseLeaveColor`
: Color when mouse leaving the element

`CNVMouseLeaveArcOpacity`
: Arc opacity when mouse leaving the element

`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

`CNVMouseMoveArcStrokeColor`
: Arc stroke color when mouse moving in the element

`CNVMouseMoveArcStrokeWidth`
: Arc stroke width when mouse moving in the element

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

`CNVMouseOutAnimationTime`
: Animation time when mouse moving out the element

`CNVMouseOutColor`
: Color when mouse moving out the element

`CNVMouseOutArcOpacity`
: Arc opacity when mouse moving out the element

`CNVMouseOutArcStrokeColor`
: Arc stroke color when mouse moving out the element

`CNVMouseOutArcStrokeWidth`
: Arc stroke width when mouse moving out the element

`CNVMouseUpDisplay`
: Default False, show/not the tooltip when mouse click up a CNV point

`CNVMouseUpColor`
: Color when mouse moving up the element

`CNVMouseUpArcOpacity`
: Arc opacity when mouse clicking the element

`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"

CNVMouseOverTooltipsBackgroundColor
: Default "white"

CNVMouseOverTooltipsBorderStyle
: Default "solid"

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

HEATMAPMouseClickColor
: Color when mouse clicking

HEATMAPMouseClickOpacity
: Opacity when mouse clicking

HEATMAPMouseClickStrokeColor
: Stroke color when mouse clicking

HEATMAPMouseClickStrokeWidth
: Stroke width when mouse clicking

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

HEATMAPMouseDownColor
: Color when mouse moving down the element

HEATMAPMouseDownOpacity
: Opacity when mouse moving down the element

HEATMAPMouseDownStrokeColor
: Stroke color when mouse moving down the element

HEATMAPMouseDownStrokeWidth
: Stroke width when mouse moving down the element

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

HEATMAPMouseEnterColor
: Color when mouse entering the element

HEATMAPMouseEnterOpacity
: Opacity when mouse entering the element

HEATMAPMouseEnterStrokeColor
: Stroke color when mouse entering the element

HEATMAPMouseEnterStrokeWidth
: Stroke width when mouse entering the element

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

HEATMAPMouseLeaveColor
: Color when mouse leaving the element

HEATMAPMouseLeaveOpacity
: Opacity when mouse leaving the element

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

HEATMAPMouseMoveStrokeWidth
: Stroke width when mouse moving in the element

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

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

HEATMAPMouseOutStrokeWidth
: Stroke width when mouse moving out the element

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

HEATMAPMouseUpColor
: Color when mouse moving up the element

HEATMAPMouseUpOpacity
: Opacity when mouse moving up the element

HEATMAPMouseUpStrokeColor
: Stroke color when mouse moving up the element

HEATMAPMouseUpStrokeWidth
: Stroke width when mouse moving up the element

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

HEATMAPMouseOverColor
: Color when mouse moving over the element

HEATMAPMouseOverOpacity
: Opacity when mouse moving over the element

HEATMAPMouseOverStrokeColor
: Stroke color when mouse moving over the element

HEATMAPMouseOverStrokeWidth
: Stroke width when mouse moving over the element

HEATMAPMouseOverTooltipsSetting
: Default "style1"

HEATMAPMouseOverTooltipsHtml
: Default " "

HEATMAPMouseOverTooltipsPosition
: Default "absolute"

HEATMAPMouseOverTooltipsBackgroundColor
: Default "white"

HEATMAPMouseOverTooltipsBorderStyle
: Default "solid"

HEATMAPMouseOverTooltipsBorderWidth
: Default 0

HEATMAPMouseOverTooltipsPadding
: Default "3px"

HEATMAPMouseOverTooltipsBorderRadius
: Default "3px"

HEATMAPMouseOverTooltipsOpacity
: Default 0.8

BUBBLExlink
: Default False, add/not xlink for BUBBLE module

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

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

BUBBLEMouseClickColor
: Color when mouse clicking

BUBBLEMouseClickOpacity
: Opacity when mouse clicking

BUBBLEMouseClickStrokeColor
: Stroke color when mouse clicking

BUBBLEMouseClickStrokeWidth
: Stroke width when mouse clicking

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

BUBBLEMouseDownColor
: Color when mouse moving down the element

BUBBLEMouseDownOpacity
: Opacity when mouse moving down the element

BUBBLEMouseDownStrokeColor
: Stroke color when mouse moving down the element

BUBBLEMouseDownStrokeWidth
: Stroke width when mouse moving down the element

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

BUBBLEMouseEnterColor
: Color when mouse entering the element

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

BUBBLEMouseLeaveStrokeColor
: Stroke color when mouse leaving the element

BUBBLEMouseLeaveStrokeWidth
: Stroke width when mouse leaving the element

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

BUBBLEMouseMoveColor
: Color when mouse moving in the element

BUBBLEMouseMoveOpacity
: Opacity when mouse moving in the element

BUBBLEMouseMoveStrokeColor
: Stroke color when mouse moving in the element

`BUBBLEMouseMoveStrokeWidth`
: Stroke width when mouse moving in the element

`BUBBLEMouseOutDisplay`
: Defalut False, hide/not tooltip when mouse is not hovering a BUBBLE point anymore

`BUBBLEMouseOutAnimationTime`
: Animation time when mouse moving out the element

`BUBBLEMouseOutColor`
: Color when mouse moving out the element

`BUBBLEMouseOutOpacity`
: Opacity when mouse moving out the element

`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

`BUBBLEMouseOverStrokeColor`
: Stroke color when mouse moving over the element

`BUBBLEMouseOverStrokeWidth`
: Stroke width when mouse moving over the element

`BUBBLEMouseOverTooltipsSetting`
: Default "style1"

`BUBBLEMouseOverTooltipsHtml`
: Default " "

`BUBBLEMouseOverTooltipsPosition`
: Default "absolute"

`BUBBLEMouseOverTooltipsBackgroundColor`
: Default "white"

`BUBBLEMouseOverTooltipsBorderStyle`
: Default "solid"

BUBBLEMouseOverTooltipsBorderWidth
: Default 0

BUBBLEMouseOverTooltipsPadding
: Default "3px"

BUBBLEMouseOverTooltipsBorderRadius
: Default "3px"

BUBBLEMouseOverTooltipsOpacity
: Default 0.8

SNPxlink
: Default False, add/not xlink for SNP module

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

SNPMouseCombinationEvent
: Default False, open/not COMBINATION module for SNP module

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

SNPMouseCombinationImageTitle
: Title of the image

SNPMouseCombinationImageTitleSize, SNPMouseCombinationImageTitleWeight, SNPMouseCombinationImageTitleColor
: Size, weight and color of the title

SNPMouseCombinationImagePositionX, SNPMouseCombinationImagePositionY
: Coordinates for image

SNPMouseCombinationImageHeight, SNPMouseCombinationImageWidth
: Height and width of image

SNPMouseCombinationGraphDisplay
: Defalut False, open/not graph display in COMBINATION module for SNP module

SNPMouseCombinationGraphTitle
: Title of the graph

SNPMouseCombinationGraphTitleSize, SNPMouseCombinationGraphTitleWeight, SNPMouseCombinationGraphTitleColor
: Size, weight and color of the title

SNPMouseCombinationGraphType
: Type of graph

SNPMouseCombinationGraphPositionX, SNPMouseCombinationGraphPositionY
: Coordinates for graph

SNPMouseCombinationGraphHeight, SNPMouseCombinationGraphWidth
: Height and width for graph

SNPMouseCombinationGraphHistogramBarColor
: Bar color of histogram graph

SNPMouseCombinationGraphHistogramPadding
: Padding between bar of histogram graph

SNPMouseCombinationGraphHistogramPositionCorrectX
: Correction distance of X axis in histogram

SNPMouseCombinationGraphPieAutoColor
: Whether use auto color for pie graph or not

SNPMouseCombinationGraphPieColor
: Color for pie graph if auto color is false

SNPMouseCombinationGraphPieSize
: Size of pie graph

SNPMouseCombinationGraphPieStroke
: Whether each pie has a stroke or not

SNPMouseCombinationGraphPieStrokeColor, SNPMouseCombinationGraphPieStrokeWidth
: The stroke color and width for pie graph

SNPMouseCombinationGraphPieOpacity
: Opacity for pie graph

SNPMouseCombinationGraphLineType, SNPMouseCombinationGraphLineColor, SNPMouseCombinationGraphLineWidth
: Line type, color and width for line graph

SNPMouseCombinationGraphLinePoint
: Whether display the broken point in line graph

SNPMouseCombinationGraphLinePointSize
: Size of broken point

SNPMouseCombinationGraphLinePointAutoColor
: Whether display the broken point in auto color

SNPMouseCombinationGraphLinePointColor
: Color for broken point if auto color is false

SNPMouseCombinationGraphLinePointStroke
: Whether display the broken point stroke

SNPMouseCombinationGraphLinePointStrokeColor, SNPMouseCombinationGraphLinePointStrokeWidth
: The stroke color and width for broken point

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

SNPMouseCombinationTextPositionCorrectX, SNPMouseCombinationTextPositionCorrectY
: The coordinates for text

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

SNPMouseClickColor
: Color after clicking the element

SNPMouseClickCircleSize
: Circle size after clicking the element

SNPMouseClickCircleOpacity
: Opacity after clicking the element

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

SNPMouseClickTextColor
: Text color after clicking the element

SNPMouseClickTextSize
: Text size after clicking the element

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

SNPMouseDownCircleSize
: Circle size after mouse moving down the element

SNPMouseDownCircleOpacity
: Circle opacity after mouse moving down the element

SNPMouseDownCircleStrokeColor
: Circle stroke color after mouse moving down the element

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

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

SNPMouseLeaveCircleSize
: Circle size after mouse leaving the element

SNPMouseLeaveCircleOpacity
: Circle opacity after mouse leaving the element

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

SNPMouseMoveCircleStrokeColor
: Circle stroke color after mouse moving in the element

SNPMouseMoveCircleStrokeWidth
: Circle stroke width after mouse moving in the element

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

SNPMouseOutAnimationTime
: Animation time when mouse moving over the element

SNPMouseOutColor
: Color when mouse moving over the element

SNPMouseOutCircleSize
: Circle size when mouse moving over the element

SNPMouseOutCircleOpacity
: Opacity when mouse moving over the element

SNPMouseOutCircleStrokeColor
: Stroke color when mouse moving over the element

SNPMouseOutCircleStrokeWidth
: Stroke width when mouse moving over the element

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

SNPMouseUpColor
: Color after mouse moving up the element

SNPMouseUpCircleSize
: Circle size after mouse moving up the element

SNPMouseUpCircleOpacity
: Circle opacity after mouse moving up the element

SNPMouseUpCircleStrokeColor
: Circle stroke color after mouse moving up the element

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

SNPMouseOverCircleStrokeWidth
: Circle stroke width after mouse moving over the element

SNPMouseOverTooltipsSetting
: Default "chr : "

SNPMouseOverTooltipsHtml
: Default " "

SNPMouseOverTooltipsPosition
: Position for tooltips when mouse moving over

SNPMouseOverTooltipsBackgroundColor
: Background color for tooltips when mouse moving over

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

LINKMouseLeaveStrokeWidth
: Stroke width when mouse leaving the element

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

LINKMouseMoveOpacity
: Opacity when mouse moving in the element

LINKMouseMoveStrokeColor
: Stroke color when mouse moving in the element

LINKMouseMoveStrokeWidth
: Stroke width when mouse moving in the element

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

LINKMouseOutAnimationTime
: Animation time when mouse moving out the element

LINKMouseOutOpacity
: Opacity when mouse moving out the element

LINKMouseOutStrokeColor
: Stroke color when mouse moving out the element

LINKMouseOutStrokeWidth
: Stroke width when mouse moving out the element

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

LINKMouseUpOpacity
: Opacity when mouse moving up the element

LINKMouseUpStrokeColor
: Stroke color when mouse moving up the element

LINKMouseUpStrokeWidth
: Stroke width when mouse moving up the element

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

LINKMouseOverOpacity
: Opacity when mouse moving over the element

LINKMouseOverStrokeColor
: Stroke color when mouse moving over the element

LINKMouseOverStrokeWidth
: Stroke width when mouse moving over the element

LINKMouseOverTooltipsSetting
: Default "style1"

LINKMouseOverTooltipsHtml
: Default " "

LINKMouseOverTooltipsPosition
: Default "absolute"

LINKMouseOverTooltipsBackgroundColor
: Default "white"

LINKMouseOverTooltipsBorderStyle
: Default "solid"

LINKMouseOverTooltipsBorderWidth
: Default 0

LINKMouseOverTooltipsPadding
: Default "3px"

LINKMouseOverTooltipsBorderRadius
: Default "3px"

LINKMouseOverTooltipsOpacity
: Default 0.8

LINKLabelDragEvent
: Defalut False, draggable for the label of LINK module

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

CHORDMouseClickStrokeColor
: Stroke color when mouse clicking

CHORDMouseClickStrokeWidth
: Stroke width when mouse clicking

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

CHORDMouseDownOpacity
: Opacity when mouse moving down the element

CHORDMouseDownStrokeColor
: Stroke color when mouse moving down the element

CHORDMouseDownStrokeWidth
: Stroke width when mouse moving down the element

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

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

CHORDMouseLeaveStrokeColor
: Stroke color when mouse leaving the element

CHORDMouseLeaveStrokeWidth
: Stroke width when mouse leaving the element

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

CHORDMouseMoveOpacity
: Opacity when mouse moving in the element

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

CHORDMouseOutAnimationTime
: Animation time when mouse moving out the element

CHORDMouseOutOpacity
: Opacity when mouse moving out the element

CHORDMouseOutStrokeColor
: Stroke color when mouse moving out the element

CHORDMouseOutStrokeWidth
: Stroke width when mouse moving out the element

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

`CHORDMouseUpOpacity`
: Opacity when mouse moving up the element

`CHORDMouseUpStrokeColor`
: Stroke color when mouse moving up the element

`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

`HISTOGRAMMouseClickStrokeColor`
: Stroke color when mouse clicking

`HISTOGRAMMouseClickStrokeWidth`
: Stroke width when mouse clicking

`HISTOGRAMMouseDownDisplay`
: Default False, show/not the tooltip when mouse click down a HISTOGRAM point

`HISTOGRAMMouseDownColor`
: Color when mouse moving down the element

`HISTOGRAMMouseDownOpacity`
: Opacity when mouse moving up the element

`HISTOGRAMMouseDownStrokeColor`
: Stroke color when mouse moving up the element

`HISTOGRAMMouseDownStrokeWidth`
: Stroke width when mouse moving up the element

`HISTOGRAMMouseEnterDisplay`
: Default False, show/not the tooltip when mouse mover over a HISTOGRAM point

`HISTOGRAMMouseEnterColor`
: Color when mouse entering the element

`HISTOGRAMMouseEnterOpacity`
: Opacity when mouse entering the element

HISTOGRAMMouseEnterStrokeColor
: Stroke color when mouse entering the element

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

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

HISTOGRAMMouseMoveStrokeColor
: Stroke color when mouse moving in the element

HISTOGRAMMouseMoveStrokeWidth
: Stroke width when mouse moving in the element

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

HISTOGRAMMouseOutAnimationTime
: Animation time when mouse moving out the element

HISTOGRAMMouseOutColor
: Color when mouse moving out the element

HISTOGRAMMouseOutOpacity
: Opacity when mouse moving out the element

HISTOGRAMMouseOutStrokeColor
: Stroke color when mouse moving out the element

HISTOGRAMMouseOutStrokeWidth
: Stroke width when mouse moving out the element

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

HISTOGRAMMouseUpColor
: Color when mouse moving up the element

HISTOGRAMMouseUpOpacity
: Opacity when mouse moving up the element

HISTOGRAMMouseUpStrokeColor
: Stroke color when mouse moving up the element

HISTOGRAMMouseUpStrokeWidth
: Stroke width when mouse moving up the element

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

HISTOGRAMMouseOverColor
: Color when mouse moving over the element

HISTOGRAMMouseOverOpacity
: Opacity when mouse moving over the element

HISTOGRAMMouseOverStrokeColor
: Stroke color when mouse moving over the element

HISTOGRAMMouseOverStrokeWidth
: Stroke width when mouse moving over the element

HISTOGRAMMouseOverTooltipsSetting
: Default "style1"

HISTOGRAMMouseOverTooltipsHtml
: Default " "

HISTOGRAMMouseOverTooltipsPosition
: Default "absolute"

HISTOGRAMMouseOverTooltipsBackgroundColor
: Default "white"

HISTOGRAMMouseOverTooltipsBorderStyle
: Default "solid"

HISTOGRAMMouseOverTooltipsBorderWidth
: Default 0

HISTOGRAMMouseOverTooltipsPadding
: Default "3px"

HISTOGRAMMouseOverTooltipsBorderRadius
: Default "3px"

HISTOGRAMMouseOverTooltipsOpacity
: Default 0.8

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

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

LINEMouseClickLineOpacity
: Line opacity when mouse clicking the element

LINEMouseClickLineStrokeColor
: Stroke color when mouse clicking the element

LINEMouseClickLineStrokeWidth
: Stroke width when mouse clicking the element

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

LINEMouseDownLineOpacity
: Line opacity when mouse moving down the element

LINEMouseDownLineStrokeColor
: Stroke color when mouse moving down the element

LINEMouseDownLineStrokeWidth
: Stroke width when mouse moving down the element

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

LINEMouseEnterLineOpacity
: Line opacity when mouse entering the element

LINEMouseEnterLineStrokeColor
: Stroke color when mouse entering the element

LINEMouseEnterLineStrokeWidth
: Stroke width when mouse entering the element

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

LINEMouseLeaveLineOpacity
: Line opacity when mouse leaving the element

LINEMouseLeaveLineStrokeColor
: Stroke color when mouse leaving the element

LINEMouseLeaveLineStrokeWidth
: Stroke width when mouse leaving the element

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

LINEMouseMoveLineOpacity
: Line opacity when mouse moving in the element

LINEMouseMoveLineStrokeColor
: 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 anymore

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

LINEMouseUpLineStrokeColor
: 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"

LINEMouseOverTooltipsBorderStyle
: Default "solid"

LINEMouseOverTooltipsBorderWidth
: Default 0

LINEMouseOverTooltipsPadding
: Default "3px"

LINEMouseOverTooltipsBorderRadius
: Default "3px"

LINEMouseOverTooltipsOpacity
: Default 0.8

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

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

WIGMouseClickLineOpacity
: Line opacity when mouse clicking the element

WIGMouseClickLineStrokeColor
: Stroke color when mouse clicking the element

WIGMouseClickLineStrokeWidth
: Stroke width when mouse clicking the element

WIGMouseClickFillColor
: Filling color when mouse clicking the element

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

WIGMouseDownLineOpacity
: Line opacity when mouse moving down the element

WIGMouseDownLineStrokeColor
: Stroke color when mouse moving down the element

WIGMouseDownLineStrokeWidth
: Stroke width when mouse moving down the element

WIGMouseDownFillColor
: Filling color when mouse moving down the element

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

WIGMouseEnterLineOpacity
: Line opacity when mouse entering the element

WIGMouseEnterLineStrokeColor
: Stroke color when mouse entering the element

WIGMouseEnterLineStrokeWidth
: Stroke width when mouse entering the element

WIGMouseEnterFillColor
: Filling color when mouse entering the element

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

WIGMouseLeaveLineOpacity
: Line opacity when mouse leaving the element

WIGMouseLeaveLineStrokeColor
: Stroke color when mouse leaving the element

WIGMouseLeaveLineStrokeWidth
: Stroke width when mouse leaving the element

WIGMouseLeaveFillColor
: Filling color when mouse leaving the element

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

WIGMouseMoveLineOpacity
: Line opacity when mouse moving in the element

WIGMouseMoveLineStrokeColor
: Stroke color when mouse moving in the element

WIGMouseMoveLineStrokeWidth
: Stroke width when mouse moving in the element

WIGMouseMoveFillColor
: Filling color when mouse leaving the element

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

WIGMouseOutAnimationTime
: Animation time when mouse moving out the element

WIGMouseOutLineOpacity
: Line opacity when mouse moving out the element

WIGMouseOutLineStrokeColor
: Stroke color when mouse moving out the element

WIGMouseOutLineStrokeWidth
: Stroke width when mouse moving out the element

`WIGMouseOutFillColor`
: Filling color when mouse moving out the element

`WIGMouseUpDisplay`
: Default False, show/not the tooltip when mouse click up a WIG point

`WIGMouseUpLineOpacity`
: Line opacity when mouse moving up the element

`WIGMouseUpLineStrokeColor`
: Stroke color when mouse moving up the element

`WIGMouseUpLineStrokeWidth`
: Stroke width when mouse moving up the element

`WIGMouseUpFillColor`
: Filling color when mouse moving up the element

`WIGMouseOverDisplay`
: Default False, show/not the tooltip when mouse hover on a WIG point

`WIGMouseOverLineOpacity`
: Line opacity when mouse moving over the element

`WIGMouseOverLineStrokeColor`
: Stroke color when mouse moving over the element

`WIGMouseOverLineStrokeWidth`
: Stroke width when mouse moving over the element

`WIGMouseOverFillColor`
: Filling color when mouse moving over the element

`WIGMouseOverTooltipsSetting`
: Default "style1"

`WIGMouseOverTooltipsHtml`
: Default " "

`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

SCATTERMouseClickCircleSize
: Circle size when mouse clicking the element

SCATTERMouseClickCircleOpacity
: Circle opacity when mouse clicking the element

SCATTERMouseClickCircleStrokeColor
: Circle stroke color when mouse clicking the element

SCATTERMouseClickCircleStrokeWidth
: Circle stroke width when mouse clicking the element

SCATTERMouseClickTextFromData
: Text column when mouse clicking the element

SCATTERMouseClickTextOpacity
: Text opacity when mouse clicking the element

SCATTERMouseClickTextColor
: Text color when mouse clicking the element

SCATTERMouseClickTextSize
: Text size when mouse clicking the element

SCATTERMouseClickTextPostionX, SCATTERMouseClickTextPostionY
: Text coordinates when mouse clicking the element

SCATTERMouseClickTextDrag
: Whether text is draggable when clicing element

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

SCATTERMouseDownColor
: Color when mouse moving down the element

SCATTERMouseDownCircleSize
: Circle size when mouse moving down the element

SCATTERMouseDownCircleOpacity
: Circle opacity when mouse moving down the element

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

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

SCATTERMouseLeaveColor
: Color when mouse leaving the element

SCATTERMouseLeaveCircleSize
: Circle size when mouse leaving the element

SCATTERMouseLeaveCircleOpacity
: Circle opacity when mouse leaving the element

SCATTERMouseLeaveCircleStrokeColor
: Circle stroke color when mouse leaving the element

SCATTERMouseLeaveCircleStrokeWidth
: Circle stroke width when mouse leaving the element

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

SCATTERMouseMoveColor
: Color when mouse moving in the element

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

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

SCATTERMouseUpCircleStrokeColor
: Circle stroke color when mouse moving up the element

SCATTERMouseUpCircleStrokeWidth
: Circle stroke width when mouse moving up the element

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

SCATTERMouseOverColor
: Color when mouse moving over the element

SCATTERMouseOverCircleSize
: Circle size when mouse moving over the element

SCATTERMouseOverCircleOpacity
: Circle opacity when mouse moving over the element

SCATTERMouseOverCircleStrokeColor
: Circle stroke color when mouse moving over the element

SCATTERMouseOverCircleStrokeWidth
: Circle stroke width when mouse moving over the element

SCATTERMouseOverTooltipsSetting
: Default "style1"

SCATTERMouseOverTooltipsHtml
: Default " "

SCATTERMouseOverTooltipsPosition
: Default "absolute"

SCATTERMouseOverTooltipsBackgroundColor
: Default "white"

SCATTERMouseOverTooltipsBorderStyle
: Default "solid"

SCATTERMouseOverTooltipsBorderWidth
: Default 0

SCATTERMouseOverTooltipsPadding
: Default "3px"

SCATTERMouseOverTooltipsBorderRadius
: Default "3px"

SCATTERMouseOverTooltipsOpacity
: Default 0.8

ARCxlink
: Default False, add/not xlink for ARC module

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

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

ARCMouseClickColor
: Color when mouse clicking the element

`ARCMouseClickArcOpacity`
: Arc opacity when mouse clicking the element

`ARCMouseClickArcStrokeColor`
: Arc stroke color when mouse clicking the element

`ARCMouseClickArcStrokeWidth`
: Arc stroke width when mouse clicking the element

`ARCMouseClickTextFromData`
: Text column when mouse clicking the element

`ARCMouseClickTextOpacity`
: Text opacity when mouse clicking the element

`ARCMouseClickTextColor`
: Text color when mouse clicking the element

`ARCMouseClickTextSize`
: Text size when mouse clicking the element

`ARCMouseClickTextPostionX`, `ARCMouseClickTextPostionY`
: Text coordinates when mouse clicking the element

`ARCMouseClickTextDrag`
: Whether text is draggable when mouse clicking the element

`ARCMouseDownDisplay`
: Default False, show/not the tooltip when mouse click down a ARC point

`ARCMouseDownColor`
: Color when mouse moving down the element

`ARCMouseDownArcOpacity`
: Arc opacity when mouse moving down the element

`ARCMouseDownArcStrokeColor`
: Arc stroke color when mouse moving down the element

`ARCMouseDownArcStrokeWidth`
: Arc stroke width when mouse moving down the element

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

`ARCMouseEnterColor`
: Color when mouse entering the element

`ARCMouseEnterArcOpacity`
: Arc opacity when mouse entering the element

`ARCMouseEnterArcStrokeColor`
: Arc stroke color when mouse entering the element

`ARCMouseEnterArcStrokeWidth`
: Arc stroke width when mouse entering the element

`ARCMouseLeaveDisplay`
: Default False, show/not the tooltip when mouse mover leave a ARC point

`ARCMouseLeaveColor`
: Color when mouse leaving the element

`ARCMouseLeaveArcOpacity`
: Arc opacity when mouse leaving the element

ARCMouseLeaveArcStrokeColor
: Arc stroke color when mouse leaving the element

ARCMouseLeaveArcStrokeWidth
: Arc stroke width when mouse leaving the element

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

ARCMouseMoveArcStrokeColor
: Arc stroke color when mouse moving in the element

ARCMouseMoveArcStrokeWidth
: Arc stroke width when mouse moving in the element

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

ARCMouseOutAnimationTime
: Animation time when mouse moving out the element

ARCMouseOutColor
: Color when mouse moving out the element

ARCMouseOutArcOpacity
: Arc opacity when mouse moving out the element

ARCMouseOutArcStrokeColor
: Arc stroke color when mouse moving out the element

ARCMouseOutArcStrokeWidth
: Arc stroke width when mouse moving out the element

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

ARCMouseUpColor
: Color when mouse moving up the element

ARCMouseUpArcOpacity
: Arc opacity when mouse moving up the element

ARCMouseUpArcStrokeColor
: Arc stroke color when mouse moving up the element

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"

`ARCMouseOverTooltipsBackgroundColor`
: 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

`GENEMouseClickArcStrokeWidth`
: Arc stroke width when mouse clicking the element

`GENEMouseClickTextFromData`
: Text column when mouse clicking the element

`GENEMouseClickTextOpacity`
: Text opacity when mouse clicking the element

`GENEMouseClickTextColor`
: Text color when mouse clicking the element

`GENEMouseClickTextSize`
: Text size when mouse clicking the element

`GENEMouseClickTextPostionX`, `GENEMouseClickTextPostionY`
: Text coordinates when mouse clicking the element

`GENEMouseClickTextDrag`
: Whether text is draggable when mouse clicking the element

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

GENEMouseDownColor
: Color when mouse moving down the element

GENEMouseDownArcOpacity
: Arc opacity when mouse moving down the element

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

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

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

GENEMouseUpArcStrokeWidth
: Arc stroke width when mouse moving up the element

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

GENEMouseOverColor
: Color when mouse moving over the element

GENEMouseOverArcOpacity
: Arc opacity when mouse moving over the element

GENEMouseOverArcStrokeColor
: Arc stroke color when mouse moving over the element

GENEMouseOverArcStrokeWidth
: Arc stroke width when mouse moving over the element

GENEMouseOverTooltipsSetting
: Default "style1"

GENEMouseOverTooltipsHtml
: Default " "

GENEMouseOverTooltipsPosition
: Default "absolute"

GENEMouseOverTooltipsBackgroundColor
: Default "white"

GENEMouseOverTooltipsBorderStyle
: Default "solid"

GENEMouseOverTooltipsBorderWidth
: Default 0

GENEMouseOverTooltipsPadding
: Default "3px"

GENEMouseOverTooltipsBorderRadius
: Default "3px"

GENEMouseOverTooltipsOpacity
: Default 0.8

LOLLIPOPxlink Default False, add/not xlink for LOLLIPOP module

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

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

LOLLIPOPMouseClickColor
Color when mouse clicking

LOLLIPOPMouseClickCircleSize
Circle size when mouse clicking the element

LOLLIPOPMouseClickCircleOpacity
Circle opacity when mouse clicking the element

LOLLIPOPMouseClickCircleStrokeColor
Circle stroke color when mouse clicking the element

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

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

LOLLIPOPMouseDownCircleStrokeColor
Circle stroke color when mouse moving down the element

LOLLIPOPMouseDownCircleStrokeWidth
Circle stroke width when mouse moving down the element

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

LOLLIPOPMouseEnterColor
Color when mouse entering the element

LOLLIPOPMouseEnterCircleSize
Circle size when mouse entering the element

LOLLIPOPMouseEnterCircleOpacity
: Circle opacity when mouse entering the element

LOLLIPOPMouseEnterCircleStrokeColor
: Circle stroke color when mouse entering the element

LOLLIPOPMouseEnterCircleStrokeWidth
: Circle stroke width when mouse entering the element

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

LOLLIPOPMouseLeaveColor
: Color when mouse leaving the element

LOLLIPOPMouseLeaveCircleSize
: Circle size when mouse leaving the element

LOLLIPOPMouseLeaveCircleOpacity
: Circle opacity when mouse leaving the element

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

LOLLIPOPMouseMoveCircleStrokeColor
: Circle stroke color when mouse moving in the element

LOLLIPOPMouseMoveCircleStrokeWidth
: Circle stroke width when mouse moving in the element

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

LOLLIPOPMouseOutAnimationTime
: Animation time when mouse moving out the element

LOLLIPOPMouseOutColor
: Color when mouse moving out the element

LOLLIPOPMouseOutCircleSize
: Circle size when mouse moving out the element

LOLLIPOPMouseOutCircleOpacity
: Circle opacity when mouse moving out the element

LOLLIPOPMouseOutCircleStrokeColor
: Circle stroke color when mouse moving out the element

LOLLIPOPMouseOutCircleStrokeWidth
: Circle stroke width when mouse moving out the element

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

LOLLIPOPMouseUpColor
: Color when mouse moving up the element

LOLLIPOPMouseUpCircleSize
: Circle size when mouse moving up the element

LOLLIPOPMouseUpCircleOpacity
: Circle opacity when mouse moving up the element

LOLLIPOPMouseUpCircleStrokeColor
: Circle stroke color when mouse moving up the element

LOLLIPOPMouseUpCircleStrokeWidth
: Circle stroke width when mouse moving up the element

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

LOLLIPOPMouseOverColor
: Color when mouse moving over the element

LOLLIPOPMouseOverCircleSize
: Circle size when mouse moving over the element

LOLLIPOPMouseOverCircleOpacity
: Circle opacity when mouse moving over the element

LOLLIPOPMouseOverCircleStrokeColor
: Circle stroke color when mouse moving over the element

LOLLIPOPMouseOverCircleStrokeWidth
: Circle stroke width when mouse moving over the element

LOLLIPOPMouseOverTooltipsSetting
: Default "style1"

LOLLIPOPMouseOverTooltipsHtml
: Default " "

LOLLIPOPMouseOverTooltipsPosition
: Default "absolute"

LOLLIPOPMouseOverTooltipsBackgroundColor
: Default "white"

LOLLIPOPMouseOverTooltipsBorderStyle
: Default "solid"

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

Value

The main figure for interacCircos with all tracks

Examples

```
Circos(genome = "hg19")
```

`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
`compareGroup`	The group number of this module in compare module
`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
`data`	A list of arc with details including chr, start, end, color, des, link and html. 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"))
```

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
markerType	Type of marker, could be circle/square/arrow/stub
markerColor, markerHeight, markerWidth	Color, Height and Width for marker
markerPosition	1 means start, 2 means end, 3 means both
animationDisplay	whether display animation
animationTime, animationDelay, animationType	The time, delay and display type for animation
...	Ignored

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",
  ...
)
```

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
`borderSize`	The thickness of the border
`animationDisplay`	Whether display animation or not
`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",
  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
ValueAxisMaxScale, ValueAxisMinScale	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

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)
```

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

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

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,
  ...
)
```

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()
```

`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,
  ...
)
```

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)
```

CircosGene *GENE module*

Description

Create a number of genes with different functional region

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
arrow	Whether display arrows on path
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
data	A list of gene with details including chr, strand, start, end, type, name, link and html. Details can be found on document
...	Ignored

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)
```

`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 = "O2I",
  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
`ValueAxisManualScale`	Whether manually control the scale of value
`ValueAxisMaxScale`, `ValueAxisMinScale`	The max and min scale value for manually control
`totalLayer`	The color and width for stroke
`animationDisplay`	Whether display animation

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

animationColorDirection
: The color changing in animation. L2C: lowest to customized, H2C: highest to customized, the customized color should be defined in data

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

data
: A list of value in heatmap plot with details including chr, start, end, value, name, layer and html. Details can be found on document

...
: Ignored

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)
```

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,
  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)
```

CircosLegend *LEGEND module*

Description

Simple legend annotation displayed in the visualization

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))
```

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 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
`color`	Color for line
`width`	Width for line
`type`	Type for line, could be linear, cardinal, basis and monotone
`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
`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 line modules

Examples

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

`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,
  ...
)
```

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" ))
```

CircosLollipop *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
`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

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

`lineWidth`, `lineColor`
: The width and color for the line of lollipop

`realStart`
: The real start position for data in genome

`ValueAxisManualScale`
: Whether manually control the scale of value

`ValueAxisMaxScale`, `ValueAxisMinScale`
: The max and min scale value for manually control

`animationDisplay`
: Whether display animation

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

`data`
: A list of lollipop value with details including protein, chr, pos, strand, CancerTypeNumber, 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"))
```

CircosModuleList *Create a list of modules*

Description

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

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,
  ...
)
```

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))
```

CircosSnp *SNP module*

Description

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

Usage

```
CircosSnp(
  modulename,
  compareGroup = 1,
  minRadius = 153,
  maxRadius = 205,
  fillColorType = "specific",
  fillColor = "#9400D3",
  fillr2Color = c("13#ff0031", "#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

data
: A list of SNP value with details including chr, pos, value, des, color, r2value, link, index, image and html. Details can be found on document

...
: Ignored

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))
```

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",
  ...
)
```

Arguments

`modulename`	The name of the new module
`text`	The details of text
`x, y`	The coordinates of the text
`size`	Font 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
`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
`...`	Ignored

Value

The module tracks for text modules.

Examples

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

`CircosWig` *WIG module*

Description

Create a multi-layer line plot

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
animationTime, animationDelay, animationType	The time, delay and display type for animation
data	A list of value with details including chr, pos, des, value and html. Details can be found on document
...	Ignored

Value

The module tracks for wig modules

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)
```

---

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
```

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
html The external html language

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 chromosome

start start position

end end position

color color

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

html The external html language

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

g1start first start position

g1end first end position

g2chr second chromosome

g2start second start position

g2end second end position

g1name first name

g2name second name

fusion fusion name

link hyperlink for link line

html The external html language

`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
```

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

html The external html language

`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

html The external html language

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