Package ‘RCy3’

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Type Package

Title Functions to Access and Control Cytoscape

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Depends R (>= 3.4)

Imports httr, methods, RJSONIO, XML, utils, BiocGenerics, igraph, stats, graph

Suggests RUnit, RColorBrewer, BiocStyle, knitr, rmarkdown

SystemRequirements Cytoscape (>= 3.6.0), CyREST (>= 3.6.0)

Description Vizualize, analyze and explore networks using Cytoscape via R.

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URL `https://github.com/cytoscape/RCy3`

BugReports `https://github.com/cytoscape/RCy3/issues`

LazyLoad yes

biocViews Visualization, GraphAndNetwork, ThirdPartyClient, Network

NeedsCompilation no

VignetteBuilder knitr

RoxygenNote 6.1.0

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R topics documented:

`addCyEdge` *DEFUNCT: addCyEdge*

Description

This function is defunct and will be removed in the next release.

Usage

```
addCyEdgedefunct
```

Value

None

`addCyEdges` *Add CyEdges*

Description

Add one or more edges to a Cytoscape network by listing source and target node pairs.

Usage

```
addCyEdges(source.target.list, edgeType = "interacts with",
  directed = FALSE, network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`source.target.list`	A `list` (or `list of lists`) of source and target node pairs
`edgeType`	The type of interaction. Default is 'interacts with'.
`directed`	`boolean` for whether interactions are directed. Default is `FALSE`.
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

A `list` of `named lists` of SUID, source and target for each edge added.

Examples

```
addCyEdges(c('sourceNode','targetNode'))
addCyEdges(list(c('s1','t1'),c('s2','t2')))
```

`addCyNode` *DEFUNCT: addCyNode*

Description

This function is defunct and will be removed in the next release.

Usage

```
addCyNodedefunct
```

Value

None

`addCyNodes` *Add CyNodes*

Description

Add one or more nodes to a Cytoscape network.

Usage

```
addCyNodes(node.names, skip.duplicate.names = TRUE, network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`node.names`	A `list` of node names
`skip.duplicate.names`	Skip adding a node if a node with the same name is already in the network. If `FALSE` then a duplicate node (with a unique SUID) will be added. Default is `TRUE`.
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

A `list` of `named lists` of name and SUID for each node added.

Examples

```
addCyNodes()
```

`addGraphToGraph` *DEFUNCT: addGraphToGraph*

Description

This function is only provided for compatibility with older versions of RCy3 and will be defunct and removed in the next releases.

Usage

```
addGraphToGraphdefunct
```

Value

None

`AddToGroup` *Add to Group*

Description

Adds the specified nodes and edges to the specified group.

Usage

```
AddToGroup(group.name, nodes = NULL, nodes.by.col = "SUID",
  edges = NULL, edges.by.col = "SUID", network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`group.name`	Specifies the name used to identify the group
`nodes`	List of node SUIDs, names, other column values, or keyword: selected, unselected or all. Default is currently selected nodes.
`nodes.by.col`	name of node table column corresponding to provided nodes list. Default is 'SUID'.
`edges`	List of edge SUIDs, names, other column values, or keyword: selected, unselected or all. Default is currently selected edges.
`edges.by.col`	name of edge table column corresponding to provided edges list. Default is 'SUID'.
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
AddToGroup()
```

`clearEdgePropertyBypass`

Clear Edge Property Bypass

Description

Clear bypass values for any edge property of the specified edges, effectively restoring any previously defined style defaults or mappings.

Usage

```
clearEdgePropertyBypass(edge.names, visual.property, network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`edge.names`	List of edge names
`visual.property`	Name of a visual property. See getVisualPropertyNames.
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

See Also

setEdgePropertyBypass

Examples

```
clearEdgePropertyBypass()
```

`clearNetworkCenterBypass` *Clear Network Center Bypass*

Description

Clear the bypass value for center x and y for the network, effectively restoring prior default values.

Usage

```
clearNetworkCenterBypass(network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
clearNetworkCenterBypass()
```

`clearNetworkPropertyBypass`

Clear Network Property Bypass

Description

Clear bypass values for any network property, effectively restoring any previously defined style defaults or mappings.

Usage

```
clearNetworkPropertyBypass(visual.property, network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`visual.property`	Name of a visual property. See getVisualPropertyNames.
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

See Also

setNodePropertyBypass

Examples

```
clearNetworkPropertyBypass()
```

`clearNetworkZoomBypass`

Clear Network Zoom Bypass

Description

Clear the bypass value for the scale factor for the network, effectively restoring prior default values.

Usage

```
clearNetworkZoomBypass(network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
clearNetworkZoomBypass()
```

`clearNodeOpacityBypass`

Clear Node Opacity Bypass

Description

Clear the bypass value for node fill, label and border opacity for the specified node or nodes, effectively restoring any previously defined style defaults or mappings.

Usage

```
clearNodeOpacityBypass(node.names, network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`node.names`	List of node names
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

See Also

setNodeOpacityBypass

Examples

```
clearNodeOpacityBypass(c('Node 1','Node 2'))
```

`clearNodePropertyBypass` *Clear Node Property Bypass*

Description

Clear bypass values for any node property of the specified nodes, effectively restoring any previously defined style defaults or mappings.

Usage

```
clearNodePropertyBypass(node.names, visual.property, network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`node.names`	List of node names
`visual.property`	Name of a visual property. See getVisualPropertyNames.
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

See Also

setNodePropertyBypass

Examples

```
clearNodePropertyBypass()
```

`clearSelection` *Clear Selection*

Description

If any nodes are selected in the network, they will be unselected.

Usage

```
clearSelection(type = "both", network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`type`	'nodes', 'edges' or 'both' (default)
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Author(s)

AlexanderPico, Tanja Muetze, Georgi Kolishovski, Paul Shannon

Examples

```
clearSelection()
```

`cloneNetwork` *Clone a Cytoscape Network*

Description

Makes a copy of a Cytoscape Network with all of its edges and nodes.

Usage

```
cloneNetwork(network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`network`	name or suid of the network you want to clone; default is "current" network
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

The `suid` of the new network

Author(s)

Alexander Pico, Julia Gustavsen

Examples

```
## Not run:
cloneNetwork("cloned network")

## End(Not run)
```

`closeSession` *Close Session*

Description

Closes the current session in Cytoscape, destroying all unsaved work.

Usage

```
closeSession(save.before.closing, filename = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`save.before.closing`	`boolean` Whether to save before closing the current session. If FALSE, then all unsaved work will be lost.
`filename`	(optional) If `save.before.closing` is TRUE and the session has not previously been saved, then the path and name of the session file to save should be provided. Default is NULL.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

A boolean for whether to save before closing is required since you could lose data by closing without saving.

Value

None

Examples

```
closeSession(FALSE)
closeSession(TRUE, '/fullpath/mySession')
closeSession(TRUE)
```

`collapseGroup` *Collapse Group*

Description

Replaces the representation of all of the nodes and edges in a group with a single node.

Usage

```
collapseGroup(groups = NULL, network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`groups`	(optional) List of group names or keywords: all, selected, unselected. Default is the currently selected group.
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
collapseGroup()
```

`commandEcho` *Command Echo*

Description

The echo command will display the value of the variable specified by the variableName argument, or all variables if variableName is not provided.

Usage

```
commandEcho(variable.name = "*", base.url = .defaultBaseUrl)
```

Arguments

`variable.name`	(optional) The name of the variable to display. Default is to display all variable values using "*".
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

Value of variable

Examples

```
commandEcho()
```

`commandOpenDialog` *Command Open Dialog*

Description

The command line dialog provides a field to enter commands and view results. It also provides the help command to display namespaces, commands, and arguments

Usage

```
commandOpenDialog(base.url = .defaultBaseUrl)
```

Arguments

`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
commandOpenDialog()
```

`commandPause` *Command Pause*

Description

The pause command displays a dialog with the text provided in the message argument and waits for the user to click OK.

Usage

```
commandPause(message = "", base.url = .defaultBaseUrl)
```

Arguments

`message`	(optional) Text to display in pause dialog
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
commandPause('Please click OK to continue.')
```

`commandQuit` *Command Quit*

Description

This command causes Cytoscape to exit. It is typically used at the end of a script file

Usage

```
commandQuit(base.url = .defaultBaseUrl)
```

Arguments

`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
commandQuit()
```

`commandRunFile` *Command Run File*

Description

The run command will execute a command script from the file pointed to by the file argument, which should contain Cytoscape commands, one per line. Arguments to the script are provided by the args argument

Usage

```
commandRunFile(file, args = NULL, base.url = .defaultBaseUrl)
```

Arguments

`file`	Path to command script file
`args`	The script arguments as key:value pairs separated by commas
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
commandRunFile('/path/to/my/file.txt')
```

`commandsAPI` *Open Swagger docs for CyREST Commands API*

Description

Opens swagger docs in default browser for a live instance of Commands available via CyREST.

Usage

```
commandsAPI(base.url = .defaultBaseUrl)
```

Arguments

`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

Web page in browser

Examples

```
commandsAPI()
```

`commandsGET` *Commands GET*

Description

Using the same syntax as Cytoscape's Command Line Dialog, this function converts a command string into a CyREST query URL, executes a GET request, and parses the result content into an R list object.

Usage

```
commandsGET(cmd.string, base.url = .defaultBaseUrl)
```

Arguments

`cmd.string`	(char) command
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

A `list`, `status` or None.

Examples

```
commandsGET('layout get preferred')
commandsGET('network list properties')
commandsGET('layout force-directed defaultNodeMass=1')
```

`commandsHelp` *Commands Help*

Description

Using the same syntax as Cytoscape's Command Line Dialog, this function returns a list of available commands or args.

Usage

```
commandsHelp(cmd.string = "help", base.url = .defaultBaseUrl)
```

Arguments

`cmd.string`	(char) command
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

Works with or without 'help' command prefix. Note that if you ask about a command that doesn't have any arguments, this function will run the command!

Value

List of available commands or args

Examples

```
commandsHelp()
commandsHelp('node')
commandsHelp('node get attribute')
```

`commandSleep` *Command Sleep*

Description

The sleep command will pause processing for a period of time as specified by duration seconds. It is typically used as part of a command script.

Usage

```
commandSleep(duration = NULL, base.url = .defaultBaseUrl)
```

Arguments

`duration`	(optional) The time in seconds to sleep
`base.url`	(optional) Ignore unless you need to specify a custom domain, #' port or version to connect to the CyREST API. Default is http://localhost:1234 #' and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
commandSleep(5)
```

`commandsPOST` *Commands POST*

Description

Using the same syntax as Cytoscape's Command Line Dialog, this function converts a command string into a CyREST query URL, executes a POST request, and parses the result content into an R list object.

Usage

```
commandsPOST(cmd.string, base.url = .defaultBaseUrl)
```

Arguments

`cmd.string`	(char) command
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

A `list`, `named list`, `status` or None.

Examples

```
commandsPOST('layout get preferred')
commandsPOST('network list properties')
commandsPOST('layout force-directed defaultNodeMass=1')
```

`commandsRun` *Run a Command*

Description

Using the same syntax as Cytoscape's Command Line Dialog, this function converts a command string into a CyREST query URL, executes a GET request, and parses the result content into an R list object. Same as commandsGET.

Usage

```
commandsRun(cmd.string, base.url = .defaultBaseUrl)
```

Arguments

`cmd.string`	(char) command
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

A `list`, `status` or None.

Examples

```
commandsRun('layout get preferred')
commandsRun('network list properties')
commandsRun('layout force-directed defaultNodeMass=1')
```

`connectToNewestCyWindow` *DEFUNCT: connectToNewestCyWindow*

Description

This function is defunct and will be removed in the next release.

Usage

```
connectToNewestCyWindowdefunct
```

Value

None

`copyCytoscapeNetwork` *DEPRECATED: copyCytoscapeNetwork*

Description

This function is only provided for compatibility with older versions of RCy3 and will be defunct and removed in the next releases. Use the replacement function instead: cloneNetwork

Usage

```
copyCytoscapeNetworkdeprecated
```

Value

Network SUID

`copyVisualStyle` *Copy Visual Style*

Description

Create a new visual style by copying a specified style.

Usage

```
copyVisualStyle(from.style, to.style, base.url = .defaultBaseUrl)
```

Arguments

`from.style`	Name of visual style to copy
`to.style`	Name of new visual style
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
copyVisualStyle()
```

`createGraphFromNetwork`
createGraphFromNetwork

Description

Returns the Cytoscape network as a Bioconductor graph.

Usage

```
createGraphFromNetwork(network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

A Bioconductor graph object.

Author(s)

Alexander Pico, Tanja Muetze, Georgi Kolishovski, Paul Shannon

Examples

```
cw <- CytoscapeWindow('network', graph=make_graphnel())
g <- createGraphFromNetwork()
g <- createGraphFromNetwork('myNetwork')
```

`createGroup` *Create Group*

Description

Create a group from the specified nodes.

Usage

```
createGroup(group.name, nodes = NULL, nodes.by.col = "SUID",
  network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`group.name`	Specifies the name used to identify the group
`nodes`	List of node SUIDs, names, other column values, or keyword: selected, unselected or all. Default is currently selected nodes.
`nodes.by.col`	name of node table column corresponding to provided nodes list. Default is 'SUID'.
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

Group SUID

Examples

```
createGroup()
```

`createIgraphFromNetwork`

Create an igraph network from a Cytoscape network

Description

Takes a Cytoscape network and generates data frames for vertices and edges to send to the graph_from_data_frame function. Returns the network.suid and applies the perferred layout set in Cytoscape preferences.

Usage

```
createIgraphFromNetwork(network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

Nodes and edges from the Cytoscape network will be translated into vertices and edges in igraph. Associated table columns will also be passed to igraph as vertiex and edge attributes. Note: all networks are implicitly modeled as directed in Cytoscape. Round-trip conversion of an undirected network in igraph via `createNetworkFromIgraph` to Cytoscape and back to igraph will result in a directed network.

Value

(igraph) an igraph network

See Also

createNetworkFromDataFrames, createNetworkFromIgraph

Examples

```
ig <- createIgraphFromNetwork()
ig <- createIgraphFromNetwork('myNetwork')
```

`createNetworkFromDataFrames` *Create a network from data frames*

Description

Takes data frames for nodes and edges, as well as naming parameters to generate the JSON data format required by the "networks" POST operation via CyREST. Returns the network.suid and applies the perferred layout set in Cytoscape preferences.

Usage

```
createNetworkFromDataFrames(nodes = NULL, edges = NULL,
  title = "MyNetwork", collection = "MyNetworkCollection",
  base.url = .defaultBaseUrl, ...)
```

Arguments

`nodes`	(data.frame) see details and examples below; default NULL to derive nodes from edge sources and targets
`edges`	(data.frame) see details and examples below; default NULL for disconnected set of nodes
`title`	(char) network name
`collection`	(char) network collection name
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.
`...`	params for nodeSet2JSON() and edgeSet2JSON()

Details

NODES should contain a column of character strings named: id. This name can be overridden by the arg: node.id.list. Additional columns are loaded as node attributes. EDGES should contain columns of character strings named: source, target and interaction. These names can be overridden by args: source.id.list, target.id.list, interaction.type.list. Additional columns are loaded as edge attributes. The 'interaction' list can contain a single value to apply to all rows; and if excluded altogether, the interaction type wiil be set to "interacts with". NOTE: attribute values of types (num) will be imported as (Double); (int) as (Integer); (chr) as (String); and (logical) as (Boolean). List types are not supported and ignored upon import.

Value

(int) network SUID

Examples

```
nodes <- data.frame(id=c("node 0","node 1","node 2","node 3"),
           group=c("A","A","B","B"), # categorical strings
           score=as.integer(c(20,10,15,5)), # integers
```

```
            stringsAsFactors=FALSE)
edges <- data.frame(source=c("node 0","node 0","node 0","node 2"),
            target=c("node 1","node 2","node 3","node 3"),
            interaction=c("inhibits","interacts","activates","interacts"),  # optional
            weight=c(5.1,3.0,5.2,9.9), # numeric
            stringsAsFactors=FALSE)

createNetworkFromDataFrames(nodes,edges)
```

`createNetworkFromGraph` *Create Network From Graph*

Description

Creates a Cytoscape network from a Bioconductor graph.

Usage

```
createNetworkFromGraph(graph, title = "MyNetwork",
  collection = "myNetworkCollection", base.url = .defaultBaseUrl)
```

Arguments

`graph`	A GraphNEL object
`title`	(char) network name
`collection`	(char) network collection name
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

Network SUID

Author(s)

Alexander Pico, Tanja Muetze, Georgi Kolishovski, Paul Shannon

Examples

```
library(graph)
g <- makeSimpleGraph()
createNetworkFromGraph(g)
```

`createNetworkFromIgraph` *Create a Cytoscape network from an igraph network*

Description

Takes an igraph network and generates data frames for nodes and edges to send to the createNetwork function. Returns the network.suid and applies the perferred layout set in Cytoscape preferences.

Usage

```
createNetworkFromIgraph(igraph, title = "MyNetwork",
  collection = "MyNetworkCollection", base.url = .defaultBaseUrl, ...)
```

Arguments

`igraph`	(igraph) igraph network object
`title`	(char) network name
`collection`	(char) network collection name
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.
`...`	params for nodeSet2JSON() and edgeSet2JSON(); see createNetwork

Details

Vertices and edges from the igraph network will be translated into nodes and edges in Cytoscape. Associated attributes will also be passed to Cytoscape as node and edge table columns. Note: undirected networks will be implicitly modeled as directed in Cytoscape. Conversion back via `createIgraphFromNetwork` will result in a directed network. Also note: igraph attributes of type "other" denoted by "x" are converted to "String" in Cytoscape.

Value

(int) network SUID

See Also

createNetworkFromDataFrames, createIgraphFromNetwork

Examples

```
library(igraph)
ig <- makeSimpleIgraph()
createNetworkFromIgraph(ig)
```

`createSubnetwork` *Create subnetwork from existing network*

Description

Copies a subset of nodes and edges into a newly created subnetwork.

Usage

```
createSubnetwork(nodes = NULL, nodes.by.col = "SUID", edges = NULL,
  edges.by.col = "SUID", exclude.edges = FALSE,
  subnetwork.name = NULL, network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`nodes`	list of node names or keyword: selected, unselected or all. Default is currently selected nodes.
`nodes.by.col`	name of node table column corresponding to provided nodes list; default is 'SUID'
`edges`	list of edge names or keyword: selected, unselected or all. Default is currently selected edges.
`edges.by.col`	name of edge table column corresponding to provided edges list; default is 'SUID'
`exclude.edges`	(boolean) whether to exclude connecting edges; default is FALSE
`subnetwork.name`	name of new subnetwork to be created; default is to add a numbered suffix to source network name
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

If you spe@param base.url (optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.cify both nodes and edges, the resulting subset will be the union of those sets. Typical usage only requires specifying either nodes or edges. Note that selected nodes will bring along their connecting edges by default (see exclude.edges arg) and selected edges will always bring along their source and target nodes.

Value

SUID of new subnetwork

Examples

```
createSubnetwork()
createSubnetwork("all")
createSubnetwork(subnetwork.name="mySubnetwork")
createSubnetwork(c("node 1","node 2","node 3"),"name")
createSubnetwork(c("AKT1","TP53","PIK3CA"),"display name")
createSubnetwork(edges="all") #subnetwork of all connected nodes
```

`createVisualStyle` *Create a visual style from components*

Description

Create a style from defaults and predefined mappings.

Usage

```
createVisualStyle(style.name, defaults, mappings,
  base.url = .defaultBaseUrl)
```

Arguments

`style.name`	(char) name for style
`defaults`	(list) key-value pairs for default mappings.
`mappings`	(list) visual property mappings, see mapVisualProperty
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

Requires attribute mappings to be previously created, see mapVisualProperty.

Value

None

See Also

applyStyle, mapVisualProperty

Examples

```
#first there has to be a network to apply style to
example(createNetworkFromDataFrames)

#then prepare style variables
style.name = "myStyle"
defaults <- list(NODE_SHAPE="diamond",
```

```
                 NODE_SIZE=30,
                 EDGE_TRANSPARENCY=120,
                 NODE_LABEL_POSITION="W,E,c,0.00,0.00")
nodeLabels <- mapVisualProperty('node label','id','p')
nodeFills <- mapVisualProperty('node fill color','group','d',c("A","B"), c("#FF9900","#66AAAA"))
arrowShapes <- mapVisualProperty('Edge Target Arrow Shape','interaction','d',
                            c("activates","inhibits","interacts"),c("Arrow","T","None"))
edgeWidth <- mapVisualProperty('edge width','weight','p')

#and then create the style
createVisualStyle(style.name, defaults, list(nodeLabels,nodeFills,arrowShapes,edgeWidth))

#finsh by applying the style
setVisualStyle(style.name)
```

`createWindow` *DEPRECATED: createWindow*

Description

This function is only provided for compatibility with older versions of RCy3 and will be defunct and removed in the next releases. Use the replacement function instead: createNetworkFromGraph

Usage

```
createWindowdeprecated
```

Value

Network SUID

`createWindowFromSelection` *DEPRECATED: createWindowFromSelection*

Description

This function is only provided for compatibility with older versions of RCy3 and will be defunct and removed in the next releases. Use the replacement function instead: createSubnetwork

Usage

```
createWindowFromSelectiondeprecated
```

Value

Network SUID

`cy2.edge.names` *DEFUNCT: cy2.edge.names*

Description

This function is defunct and will be removed in the next release.

Usage

```
cy2.edge.namesdefunct
```

Value

None

`cybrowserClose` *Cybrowser Close*

Description

Close an internal web browser and remove all content. Provide an id for the browser you want to close.

Usage

```
cybrowserClose(id = NULL, base.url = .defaultBaseUrl)
```

Arguments

`id`	(optional) The identifier for the browser window to close
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
cybrowserClose('554')
```

`cybrowserDialog` *Cybrowser Dialog*

Description

Launch Cytoscape's internal web browser in a separate window. Provide an id for the window if you want subsequent control of the window e.g., via cybrowser hide.

Usage

```
cybrowserDialog(id = NULL, text = NULL, title = NULL, url = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`id`	(optional) The identifier for the browser window
`text`	(optional) HTML text to initially load into the browser
`title`	(optional) Text to be shown in the title bar of the browser window
`url`	(optional) The URL the browser should load
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

See Also

cybrowserShow

cybrowserHide

Examples

```
cybrowserDialog(url='http://cytoscape.org')
```

`cybrowserHide` *Cybrowser Hide*

Description

Hide an existing browser, whether it's in the Results panel or a separate window.

Usage

```
cybrowserHide(id = NULL, base.url = .defaultBaseUrl)
```

Arguments

`id`	(optional) The identifier for the browser window to hide
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

See Also

cybrowserShow

cybrowserDialog

Examples

```
cybrowserHide()
```

`cybrowserList` *Cybrowser List*

Description

List all browsers that are currently open, whether as a dialog or in the results panel.

Usage

```
cybrowserList(base.url = .defaultBaseUrl)
```

Arguments

`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

List of open cybrowser windows

Examples

```
cybrowserList()
```

`cybrowserSend` *Cybrowser Send*

Description

Send the text to the browser indicated by the id and return the response, if any. Note that the JSON result field could either be a bare string or JSON formatted text.

Usage

```
cybrowserSend(id = NULL, script, base.url = .defaultBaseUrl)
```

Arguments

`id`	(optional) The identifier for the browser window
`script`	(optional) A string that represents a JavaScript variable, script, or call to be executed in the browser. Note that only string results are returned.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

String result

Examples

```
cybrowserSend(id="Window 1", script="navigator.userAgent;")
```

`cybrowserShow` *Cybrowser Show*

Description

Launch Cytoscape's internal web browser in a pane in the Result Panel. Provide an id for the window if you want subsequent control of the window via cybrowser hide.

Usage

```
cybrowserShow(id = NULL, text = NULL, title = NULL, url = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`id`	(optional) The identifier for the browser window
`text`	(optional) HTML text to initially load into the browser
`title`	(optional) Text to be shown in the title bar of the browser window
`url`	(optional) The URL the browser should load
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

See Also

cybrowserDialog

cybrowserHide

Examples

```
cybrowserShow(url='http://cytoscape.org')
```

`cybrowserVersion` *Cybrowser Version*

Description

Display the version of the CyBrowser app.

Usage

```
cybrowserVersion(base.url = .defaultBaseUrl)
```

Arguments

`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

Version number

Examples

```
cybrowserVersion()
```

`cyPlot` *DEFUNCT: cyPlot*

Description

This function is defunct and will be removed in the next release.

Usage

```
cyPlotdefunct
```

Value

None

`cyrestAPI` *Open Swagger docs for CyREST API*

Description

Opens swagger docs in default browser for a live instance of CyREST operations.

Usage

```
cyrestAPI(base.url = .defaultBaseUrl)
```

Arguments

`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

Web page in browser

Examples

```
cyrestAPI()
```

`cyrestDELETE` *CyREST DELETE*

Description

Constructs the query, makes DELETE call and processes the result

Usage

```
cyrestDELETE(operation = NULL, parameters = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`operation`	A string to be converted to the REST query namespace
`parameters`	A named list of values to be converted to REST query parameters
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

CyREST result content

Examples

```
cyrestDELETE()
```

`cyrestGET` *CyREST GET*

Description

Constructs the query, makes GET call and processes the result

Usage

```
cyrestGET(operation = NULL, parameters = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`operation`	A string to be converted to the REST query namespace
`parameters`	A named list of values to be converted to REST query parameters
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

CyREST result content

Examples

```
cyrestGET()
```

`cyrestPOST` *CyREST POST*

Description

Constructs the query and body, makes POST call and processes the result

Usage

```
cyrestPOST(operation, parameters = NULL, body = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`operation`	A string to be converted to the REST query namespace
`parameters`	A named list of values to be converted to REST query parameters
`body`	A named list of values to be converted to JSON
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

CyREST result content

Examples

```
cyrestPOST()
```

`cyrestPUT` *CyREST PUT*

Description

Constructs the query and body, makes PUT call and processes the result

Usage

```
cyrestPUT(operation, parameters = NULL, body = FALSE,
  base.url = .defaultBaseUrl)
```

Arguments

`operation`	A string to be converted to the REST query namespace
`parameters`	A named list of values to be converted to REST query parameters
`body`	A named list of values to be converted to JSON
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

CyREST result content

Examples

```
cyrestPUT()
```

`cytoscapeApiVersions` *Available CyREST API Versions*

Description

Get the list of available CyREST API versions

Usage

```
cytoscapeApiVersions(base.url = .defaultBaseUrl)
```

Arguments

`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

A `list` of API versions as `character` strings, e.g., "v1"

Author(s)

Alexander Pico, Tanja Muetze, Georgi Kolishovski, Paul Shannon

Examples

```
cytoscapeApiVersions()
# [1] "v1"
```

`CytoscapeConnection` *DEPRECATED: CytoscapeConnection*

Description

This function is only provided for compatibility with older versions of RCy3 and will be defunct and removed in the next releases. Use the replacement variable instead: base.url Rely on the default value or overwrite with custom host and port details.

Usage

```
CytoscapeConnectiondeprecated
```

Value

None

`cytoscapeFreeMemory` *Free Up Unused Memory for Cytoscape*

Description

Manually call Java's garbage collection `System.gc()` to free up unused memory. This process happens automatically, but may be useful to call explicitly for testing or evaluation purposes.

Usage

```
cytoscapeFreeMemory(base.url = .defaultBaseUrl)
```

Arguments

`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

status message

Author(s)

Alexander Pico

Examples

```
cytoscapeFreeMemory()
# [1] "Unused memory freed up."
```

`cytoscapeMemoryStatus` *Memory Available to Cytoscape*

Description

Returns the memory resources of the server running Cytoscape

Usage

```
cytoscapeMemoryStatus(base.url = .defaultBaseUrl)
```

Arguments

`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

A `list` of `numeric` values

Author(s)

Alexander Pico

Examples

```
cytoscapeMemoryStatus()
#  usedMemory  freeMemory totalMemory   maxMemory
#         181        2624        2805       13653
```

`cytoscapeNumberOfCores` *Number of Processors Available to Cytoscape*

Description

Returns the processor resources of the server running Cytoscape

Usage

```
cytoscapeNumberOfCores(base.url = .defaultBaseUrl)
```

Arguments

`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

A `numeric` value

Author(s)

Alexander Pico

Examples

```
cytoscapeNumberOfCores()
# [1] 8
```

`cytoscapePing` *Ping Cytoscape*

Description

Tests the connection to Cytoscape via CyREST and verifies that supported versions of Cytoscape and CyREST API are loaded.

Usage

```
cytoscapePing(base.url = .defaultBaseUrl)
```

Arguments

`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

status message

Author(s)

Alexander Pico, Tanja Muetze, Georgi Kolishovski, Paul Shannon

Examples

```
cytoscapePing()
# [1] "You are connected to Cytoscape!"
```

`cytoscapeVersionInfo` *Cytoscape and CyREST API Versions*

Description

Returns the versions of the current Cytoscape and CyREST API

Usage

```
cytoscapeVersionInfo(base.url = .defaultBaseUrl)
```

Arguments

`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

`list` of versions

Author(s)

Alexander Pico

Examples

```
cytoscapeVersionInfo()
 # apiVersion cytoscapeVersion
 #       "v1" "3.7.0-SNAPSHOT"
```

`CytoscapeWindow` *DEPRECATED: CytoscapeWindow*

Description

This function is only provided for compatibility with older versions of RCy3 and will be defunct and removed in the next releases. Use the replacement function instead: createNetworkFromGraph Rely on the default value or overwrite with custom host and port details.

Usage

```
CytoscapeWindowdeprecated
```

Value

Network SUID

`deleteAllNetworks` *Delete All Networks*

Description

Delete all networks from the current Cytoscape session.

Usage

```
deleteAllNetworks(base.url = .defaultBaseUrl)
```

Arguments

`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
deleteAllNetworks()
```

`deleteAllWindows` *DEPRECATED: deleteAllWindows*

Description

This function is only provided for compatibility with older versions of RCy3 and will be defunct and removed in the next releases. Use the replacement function instead: deleteAllNetworks

Usage

```
deleteAllWindowsdeprecated
```

Value

None

`deleteEdgeAttribute` *DEPRECATED: deleteEdgeAttribute*

Description

This function is only provided for compatibility with older versions of RCy3 and will be defunct and removed in the next releases. Use the replacement function instead: deleteTableColumn

Usage

```
deleteEdgeAttribute_deprecated
```

Value

None

`deleteGroup` *Delete (or Ungroup) a Group*

Description

Deletes one or more groups, while leaving member nodes intact.

Usage

```
deleteGroup(groups = NULL, groups.by.col = "SUID", network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`groups`	(optional) List of group SUIDs, names, other column values or keywords: all, selected, unselected. Default is the currently selected group.
`groups.by.col`	name of node table column corresponding to provided groups list. Default is 'SUID'.
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

Note: group nodes are ungrouped but not deleted in Cytoscape version 3.6.1

Value

None

Examples

```
deleteGroup()
```

`deleteNetwork` *Delete Network*

Description

Delete a network from the current Cytoscape session.

Usage

```
deleteNetwork(network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
deleteNetwork()
```

`deleteNodeAttribute` *DEPRECATED: deleteNodeAttribute*

Description

This function is only provided for compatibility with older versions of RCy3 and will be defunct and removed in the next releases. Use the replacement function instead: deleteTableColumn

Usage

```
deleteNodeAttribute_deprecated
```

Value

None

`deleteSelectedEdges` *Delete Selected Edges*

Description

Delete the currently selected edges in the network.

Usage

```
deleteSelectedEdges(network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

`list` of deleted edge SUIDs

Author(s)

AlexanderPico, Tanja Muetze, Georgi Kolishovski, Paul Shannon

Examples

```
deleteSelectedEdges()
```

`deleteSelectedNodes` *Delete Selected Nodes*

Description

Delete currently selected nodes from the network.

Usage

```
deleteSelectedNodes(network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

A `named list` of deleted node suids ($nodes) as well as edge suids ($edges) deleted as a result of the node deletion

Examples

```
deleteSelectedNodes()
```

`deleteTableColumn` *Delete a table column*

Description

Delete a column from node, edge or network tables.

Usage

```
deleteTableColumn(column, table = "node", namespace = "default",
  network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`column`	Name of the column to delete
`table`	Name of table, e.g., node (default), edge, network
`namespace`	Namespace of table. Default is "default".
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

A `data.frame` of column values

Examples

```
deleteTableColumn('node','group')
```

`deleteWindow` *DEPRECATED: deleteWindow*

Description

This function is only provided for compatibility with older versions of RCy3 and will be defunct and removed in the next releases. Use the replacement function instead: deleteNetwork

Usage

```
deleteWindowdeprecated
```

Value

None

`demoSimpleGraph` *DEFUNCT: demoSimpleGraph*

Description

This function is defunct and will be removed in the next release.

Usage

```
demoSimpleGraphdefunct
```

Value

None

`diffusionAdvanced` *Diffusion Advanced*

Description

Diffusion will send the selected network view and its selected nodes to a web-based REST service to calculate network propagation. Results are returned and represented by columns in the node table. Advanced operation supports parameters.

Usage

```
diffusionAdvanced(heat.column.name = NULL, time = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`heat.column.name`	(optional) A node column name intended to override the default table column 'diffusion_input'. This represents the query vector and corresponds to h in the diffusion equation.
`time`	(optional) The extent of spread over the network. This corresponds to t in the diffusion equation.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

Columns are created for each execution of Diffusion and their names are returned in the response. The nodes you would like to use as input should be selected. This will be used to generate the contents of the diffusion_input column, which represents the query vector and corresponds to h in the diffusion equation.

Value

Version number

Examples

```
diffusionAdvanced()
```

`diffusionBasic` *Diffusion Basic*

Description

Diffusion will send the selected network view and its selected nodes to a web-based REST service to calculate network propagation. Results are returned and represented by columns in the node table.

Usage

```
diffusionBasic(base.url = .defaultBaseUrl)
```

Arguments

`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

Columns are created for each execution of Diffusion and their names are returned in the response. The nodes you would like to use as input should be selected. This will be used to generate the contents of the diffusion_input column, which represents the query vector and corresponds to h in the diffusion equation.

Value

Version number

Examples

```
diffusionBasic()
```

`disableApp` *Disable App*

Description

Disable an app to effectively remove it from your Cytoscape session without having to uninstall it.

Usage

```
disableApp(app, base.url = .defaultBaseUrl)
```

Arguments

`app`	Name of app
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
disableApp()
```

`displayGraph` *DEFUNCT: displayGraph*

Description

This function is defunct and will be removed in the next release.

Usage

```
displayGraphdefunct
```

Value

None

`dockPanel` *Dock Panel*

Description

Dock a panel back into the UI of Cytoscape.

Usage

```
dockPanel(panel.name, base.url = .defaultBaseUrl)
```

Arguments

`panel.name`	Name of the panel. Multiple ways of referencing panels is supported: WEST, control panel, control, c SOUTH, table panel, table, ta SOUTH_WEST, tool panel, tool, to EAST, results panel, results, r
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
dockPanel('table')
```

`eda` *DEFUNCT: eda*

Description

This function is defunct and will be removed in the next release.

Usage

```
edadefunct
```

Value

None

`eda.names` *DEFUNCT: eda.names*

Description

This function is defunct and will be removed in the next release.

Usage

```
eda.namesdefunct
```

Value

None

`enableApp` *Enable App*

Description

Enable a previously installed and disabled app in Cytoscape.

Usage

```
enableApp(app, base.url = .defaultBaseUrl)
```

Arguments

`app`	Name of app
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
enableApp()
```

`existing.CytoscapeWindow` *DEPRECATED: existing.CytoscapeWindow*

Description

This function is only provided for compatibility with older versions of RCy3 and will be defunct and removed in the next releases. Use the replacement function instead: getNetworkSuid

Usage

```
existing.CytoscapeWindowdeprecated
```

Value

Network SUID

`expandGroup` *Expand Group*

Description

Replaces the group node with member nodes for a set of groups.

Usage

```
expandGroup(groups = NULL, network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`groups`	(optional) List of group names or keywords: all, selected, unselected. Default is the currently selected group.
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
expandGroup()
```

`exportImage` *Export Image*

Description

Saves the current network view as an image file.

Usage

```
exportImage(filename = NULL, type = NULL, resolution = NULL,
  units = NULL, height = NULL, width = NULL, zoom = NULL,
  network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`filename`	(`character`) Name of the image file to save. By default, the view's title is used as the file name and the last valid export path from the current session is used.
`type`	(`character`) Type of image to export, e.g., JPEG, PDF, PNG, PostScript, SVG (case sensitive).
`resolution`	(`numeric`) The resolution of the exported image, in DPI. Valid only for bitmap formats, when the selected width and height 'units' is inches. The possible values are: 72 (default), 100, 150, 300, 600.
`units`	(`character`) The units for the 'width' and 'height' values. Valid only for bitmap formats, such as PNG and JPEG. The possible values are: pixels (default), inches.
`height`	(`numeric`) The height of the exported image. Valid only for bitmap formats, such as PNG and JPEG.
`width`	(`numeric`) The width of the exported image. Valid only for bitmap formats, such as PNG and JPEG.
`zoom`	(`numeric`) The zoom value to proportionally scale the image. The default value is 100.0. Valid only for bitmap formats, such as PNG and JPEG
`network`	(optional) Name or SUID of a network or view. Default is the "current" network active in Cytoscape. The first (presummably only) view associated a network is used if a specific view SUID is not provided.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

The image is cropped per the current view in Cytoscape. Consider applying `fitContent` prior to export.

Value

server response

Examples

```
exportImage('/fullpath/myNetwork','PDF')
```

`exportNetwork` *Export Network*

Description

Export a network to one of mulitple file formats

Usage

```
exportNetwork(filename = NULL, type = NULL, network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`filename`	Full path and name to exported file
`type`	File type. CX, CYJS, GraphML, NNF, SIF, XGMML (case sensitive). Default is SIF.
`network`	(optional) Name or SUID of a network or view. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None.

Examples

```
exportNetwork('/path/filename','SIF')
```

`exportNetworkToNDEx` *Export Network To NDEx*

Description

Send a copy of a Cytoscape network to NDEx as a new submission.

Usage

```
exportNetworkToNDEx(username, password, isPublic, network = NULL,
  metadata = NULL, base.url = .cyndexBaseUrl)
```

Arguments

`username`	NDEx account username
`password`	NDEx account password
`isPublic`	(Boolean) Whether to make the network publicly accessible at NDEx.
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`metadata`	(optional) A list of structured information describing the network
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

NDEx identifier (`externalId`) for new submission

Examples

```
exportNetworkToNDEx("user", "pass", TRUE)
```

`exportVisualStyles` *Export Visual Styles*

Description

Save one or more visual styles to file.

Usage

```
exportVisualStyles(filename = NULL, type = NULL, styles = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`filename`	(char) Name of the style file to save. Default is "styles.xml"
`type`	(optional) Type of data file to export, e.g., XML, JSON (case sensitive). Default is XML.
`styles`	(optional) The styles to be exported, listed as a comma-separated string. If no styles are specified, only the current one is exported.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
exportVisualStyles('/fullpath/myStyle')
exportVisualStyles('/fullpath/myStyle', type = 'JSON')
exportVisualStyles('/fullpath/myStyle', style = 'Minimal,default,Directed')
```

`fitContent` *Fit Content*

Description

Zoom and pan network view to maximize either height or width of current network window.

Usage

```
fitContent(selected.only = FALSE, network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`selected.only`	(Boolean) Whether to fit only current selection. Default is false, i.e., to fit the entire network.
`network`	(optional) Name or SUID of a network or view. Default is the "current" network active in Cytoscape. The first (presummably only) view associated a network is used if a specific view SUID is not provided.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

Takes first (presumably only) view associated with provided network

Value

None

Examples

```
fitContent()
```

`fitSelectedContent` *DEPRECATED: fitSelectedContent*

Description

This function is only provided for compatibility with older versions of RCy3 and will be defunct and removed in the next releases. Use the replacement function instead: fitContent

Usage

```
fitSelectedContent_deprecated
```

Value

None

`floatPanel` *Float Panel*

Description

Pop out a panel from the UI of Cytoscape. Other panels will expand into the space.

Usage

```
floatPanel(panel.name, base.url = .defaultBaseUrl)
```

Arguments

`panel.name`	Name of the panel. Multiple ways of referencing panels is supported: WEST, control panel, control, c SOUTH, table panel, table, ta SOUTH_WEST, tool panel, tool, to EAST, results panel, results, r
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
floatPanel('table')
```

`getAdjacentEdgeNames` *DEFUNCT: getAdjacentEdgeNames*

Description

This function is defunct and will be removed in the next release. Use these replacement functions instead: selectEdgesAdjacentToSelectedNodes, getSelectedEdges

Usage

```
getAdjacentEdgeNamesdefunct
```

Value

None

`getAllEdgeAttributes` *DEPRECATED: getAllEdgeAttributes*

Description

This function is only provided for compatibility with older versions of RCy3 and will be defunct and removed in the next releases. Use the replacement function instead: getTableColumns

Usage

```
getAllEdgeAttributes_deprecated
```

Value

None

`getAllEdges` *Get All Edges*

Description

Retrieve the names of all the edges in the network.

Usage

```
getAllEdges(network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

`list` of node edges

Examples

```
getAllEdges()
```

`getAllNodeAttributes` *DEPRECATED: getAllNodeAttributes*

Description

This function is only provided for compatibility with older versions of RCy3 and will be defunct and removed in the next releases. Use the replacement function instead: getTableColumns

Usage

```
getAllNodeAttributes_deprecated
```

Value

None

`getAllNodes` *Get All Nodes*

Description

Retrieve the names of all the nodes in the network.

Usage

```
getAllNodes(network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

`list` of node names

Examples

```
getAllNodes()
```

`getAppInformation` *Get App Information*

Description

Retrieve the name, brief description and version of a Cytoscape app.

Usage

```
getAppInformation(app, base.url = .defaultBaseUrl)
```

Arguments

`app`	Name of app
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

App name, brief description and version.

Examples

```
getAppInformation()
```

`getAppStatus` *App Status*

Description

Retrieve the current status of a Cytoscape app: Installed, Uninstalled or Disabled.

Usage

```
getAppStatus(app, base.url = .defaultBaseUrl)
```

Arguments

`app`	Name of app
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

App name and status

Examples

```
getAppStatus()
```

---

getAppUpdates *List Apps With Updates*

Description

Retrieve list of currently installed Cytoscape apps with updates available.

Usage

```
getAppUpdates(base.url = .defaultBaseUrl)
```

Arguments

`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

A list of updatable app names, versions and statuses

Examples

```
getAppUpdates()
```

---

getArrowShapes *Get Arrow Shapes*

Description

Retrieve the names of the currently supported ’arrows’ – the decorations can (optionally) appear at the ends of edges, adjacent to the nodes they connect, and conveying information about the nature of the nodes’ relationship.

Usage

```
getArrowShapes(base.url = .defaultBaseUrl)
```

Arguments

`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

A list of `character` strings, e.g., 'DIAMOND', 'T', 'ARROW'

Examples

```
getArrowShapes()
```

`getAttributeClassNames` *DEFUNCT: getAttributeClassNames*

Description

This function is defunct and will be removed in the next release.

Usage

```
getAttributeClassNamesdefunct
```

Value

None

`getAvailableApps` *List Available Apps*

Description

Retrieve a list of apps available for installation in Cytoscape.

Usage

```
getAvailableApps(base.url = .defaultBaseUrl)
```

Arguments

`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

A list of app names and latest versions

Examples

```
getAvailableApps()
```

`getBackgroundColorDefault` *Get Background Color Default*

Description

Retrieve the default background color.

Usage

```
getBackgroundColorDefault(style.name = "default",
  base.url = .defaultBaseUrl)
```

Arguments

`style.name`	Name of style; default is "default" style
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
getBackgroundColorDefault()
```

`getCenter` *DEPRECATED: getCenter*

Description

This function is only provided for compatibility with older versions of RCy3 and will be defunct and removed in the next releases. Use the replacement function instead: getNetworkCenter

Usage

```
getCenterdeprecated
```

Value

Network center

`getCollectionList` *Get Collection List*

Description

FUNCTION_DESCRIPTION

Usage

```
getCollectionList(base.url = .defaultBaseUrl)
```

Arguments

`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

RETURN_DESCRIPTION

Examples

```
getCollectionList()
```

`getCollectionName` *Get Collection Name*

Description

FUNCTION_DESCRIPTION

Usage

```
getCollectionName(collection.suid = NULL, base.url = .defaultBaseUrl)
```

Arguments

`collection.suid`	DESCRIPTION
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

RETURN_DESCRIPTION

Examples

```
getCollectionName()
```

`getCollectionNetworks` *Get Collection Networks*

Description

FUNCTION_DESCRIPTION

Usage

```
getCollectionNetworks(collection.suid = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`collection.suid`	DESCRIPTION
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

RETURN_DESCRIPTION

Examples

```
getCollectionNetworks()
```

`getCollectionSuid` *Get Collection Suid*

Description

FUNCTION_DESCRIPTION

Usage

```
getCollectionSuid(network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`network`	DESCRIPTION
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

RETURN_DESCRIPTION

Examples

```
getCollectionSuid()
```

`getCommandNames` *DEPRECATED: getCommandNames*

Description

This function is only provided for compatibility with older versions of RCy3 and will be defunct and removed in the next releases. Use the replacement function instead: commandsHelp

Usage

```
getCommandNames_deprecated
```

Value

None

`getCommandNamesWithinNamespace` *DEPRECATED: getCommandNamesWithinNamespace*

Description

This function is only provided for compatibility with older versions of RCy3 and will be defunct and removed in the next releases. Use the replacement function instead: commandsHelp

Usage

```
getCommandNamesWithinNamespace_deprecated
```

Value

None

`getDefaultEdgeReverseSelectionColor`

DEFUNCT: getDefaultEdgeReverseSelectionColor

Description

This function is defunct and will be removed in the next release.

Usage

```
getDefaultEdgeReverseSelectionColordefunct
```

Value

None

`getDefaultNodeReverseSelectionColor`

DEFUNCT: getDefaultNodeReverseSelectionColor

Description

This function is defunct and will be removed in the next release.

Usage

```
getDefaultNodeReverseSelectionColordefunct
```

Value

None

`getDirectlyModifiableVisualProperties`

DEPRECATED: getDirectlyModifiableVisualProperties

Description

This function is only provided for compatibility with older versions of RCy3 and will be defunct and removed in the next releases. Use the replacement function instead: getVisualPropertyNames

Usage

```
getDirectlyModifiableVisualPropertiesdeprecated
```

Value

List of property names

`getDisabledApps` *List Disabled Apps*

Description

Retrieve list of currently disabled apps in Cytoscape.

Usage

```
getDisabledApps(base.url = .defaultBaseUrl)
```

Arguments

`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

A list of disabled app names, versions and statuses

Examples

```
getDisabledApps()
```

`getEdgeAttribute` *DEPRECATED: getEdgeAttribute*

Description

This function is only provided for compatibility with older versions of RCy3 and will be defunct and removed in the next releases. Use the replacement function instead: getTableValue

Usage

```
getEdgeAttribute_deprecated
```

Value

None

`getEdgeAttributeNames` *DEPRECATED: getEdgeAttributeNames*

Description

This function is only provided for compatibility with older versions of RCy3 and will be defunct and removed in the next releases. Use the replacement function instead: getTableColumnNames

Usage

```
getEdgeAttributeNames_deprecated
```

Value

None

`getEdgeColor` *Get Edge Color*

Description

Retrieve the actual line color of specified edges.

Usage

```
getEdgeColor(edge.names = NULL, network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`edge.names`	List of edge names
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

Property value

Examples

```
getEdgeColor()
```

`getEdgeCount` *Get Edge Count*

Description

Reports the number of the edges in the network.

Usage

```
getEdgeCount(network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

`numeric`

Author(s)

Alexander Pico, Tanja Muetze, Georgi Kolishovski, Paul Shannon

Examples

```
getEdgeCount()
```

`getEdgeLineStyle` *Get Edge Line Style*

Description

Retrieve the actual line style of specified edges.

Usage

```
getEdgeLineStyle(edge.names = NULL, network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`edge.names`	List of edge names
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

Property value

Examples

```
getEdgeLineStyle()
```

`getEdgeLineWidth` *Get Edge Line Width*

Description

Retrieve the actual line width of specified edges.

Usage

```
getEdgeLineWidth(edge.names = NULL, network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`edge.names`	List of edge names
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

Property value

Examples

```
getEdgeLineWidth()
```

`getEdgeProperty` *Get Edge Property Values*

Description

Get values for any edge property of the specified edges.

Usage

```
getEdgeProperty(edge.names, visual.property, network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`edge.names`	List of edge names
`visual.property`	Name of a visual property. See getVisualPropertyNames.
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

This method retrieves the actual property of the node, given the current visual style, factoring together any default, mapping and bypass setting.

Value

Property value

Examples

```
getEdgeProperty(c('node 0 (pp) node 1','node 0 (pp) node 2'),'EDGE_WIDTH')
```

`getEdgeSelectionColorDefault` *Get Edge Selection Color Default*

Description

Retrieve the default selected edge color.

Usage

```
getEdgeSelectionColorDefault(style.name = "default",
  base.url = .defaultBaseUrl)
```

Arguments

`style.name`	Name of style; default is "default" style
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
getEdgeSelectionColorDefault()
```

---

getEdgeTargetArrowShape

Get Edge Target Arrow Shape

Description

Retrieve the actual target arrow shape of specified edges.

Usage

```
getEdgeTargetArrowShape(edge.names = NULL, network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`edge.names`	List of edge names
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

Property value

Examples

```
getEdgeTargetArrowShape()
```

`getFirstNeighbors` *Get list of nodes neighboring provided list*

Description

Returns a non-redundan list of first neighbors of the supplied list of nodes or current node selection.

Usage

```
getFirstNeighbors(node.names = NULL, as.nested.list = FALSE,
  network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`node.names`	A `list` of node names from the `name` column of the `node table`. Default is currently selected nodes.
`as.nested.list`	`logical` Whether to return lists of neighbors per query node
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

A list of unique node names, optionally nested per query node name.

Author(s)

Alexander Pico, Tanja Muetze, Georgi Kolishovski, Paul Shannon

See Also

selectNodes selectFirstNeighbors

Examples

```
getFirstNeighbors()
```

`getGraph` *DEFUNCT: getGraph*

Description

This function is defunct and will be removed in the next release. Use the replacement function instead: createGraphFromNetwork

Usage

```
getGraphdefunct
```

Value

None

`getGraphFromCyWindow` *DEPRECATED: getGraphFromCyWindow*

Description

This function is only provided for compatibility with older versions of RCy3 and will be defunct and removed in the next releases. Use the replacement function instead: createGraphFromNetwork

Usage

```
getGraphFromCyWindowdeprecated
```

Value

Network SUID

`getGroupInfo` *Get Group Information*

Description

Retrieve information about a group by name or identifier.

Usage

```
getGroupInfo(group, network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`group`	Group name or SUID.
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

Group information

Examples

```
getGroupInfo('mygroup')
```

`getInstalledApps` *List Installed Apps*

Description

Retrieve list of currently installed apps in Cytoscape.

Usage

```
getInstalledApps(base.url = .defaultBaseUrl)
```

Arguments

`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

A list of installed app names, versions and statuses

Examples

```
getInstalledApps()
```

`getLayoutNameMapping` *Get Layout Name Mapping*

Description

The Cytoscape 'Layout' menu lists many layout algorithms, but the names presented there are different from the names by which these algorithms are known to layout method. This method returns a named list in which the names are from the GUI, and the values identify the names you must use to choose an algorithms in the programmatic interface.

Usage

```
getLayoutNameMapping(base.url = .defaultBaseUrl)
```

Arguments

`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

A named `list` of `character` strings

Author(s)

Alexander Pico, Tanja Muetze, Georgi Kolishovski, Paul Shannon

Examples

```
getLayoutNameMapping()
# Degree Sorted Circle Layout   Group Attributes Layout   Edge-weighted Spring Embedded Layout
#           "degree-circle"      "attributes-layout"                          "kamada-kawai"
```

`getLayoutNames` *Get Layout Names*

Description

Retrieve the names of the currently supported layout algorithms. These may be used in subsequent calls to the 'layoutNetwork' function.

Usage

```
getLayoutNames(base.url = .defaultBaseUrl)
```

Arguments

`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

A `list` of `character` strings, e.g., "force-directed" "circular" "grid"

Author(s)

Alexander Pico, Tanja Muetze, Georgi Kolishovski, Paul Shannon

Examples

```
getLayoutNames()
# [1] "degree-circle"        "attributes-layout"     "kamada-kawai"
# [4] "force-directed"       "cose"                  "hierarchical"
# [7] "attribute-circle"     "stacked-node-layout"   "circular"
```

`getLayoutPropertyNames`
Get Layout Property Names

Description

Returns a list of the tunable properties for the specified layout.

Usage

```
getLayoutPropertyNames(layout.name, base.url = .defaultBaseUrl)
```

Arguments

`layout.name`	(`character`) Name of the layout
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

Run getLayoutNames to list available layouts.

Value

A `list` of `character` strings

Author(s)

Alexander Pico, Tanja Muetze, Georgi Kolishovski, Paul Shannon

Examples

```
getLayoutPropertyNames('force-directed')
# [1] "numIterations"            "defaultSpringCoefficient" "defaultSpringLength"
# [4] "defaultNodeMass"          "isDeterministic"          "singlePartition"
```

---

getLayoutPropertyType *Get Layout Property Type*

Description

Returns the type of one of the tunable properties (property.name) for the specified layout.

Usage

```
getLayoutPropertyType(layout.name, property.name,
  base.url = .defaultBaseUrl)
```

Arguments

`layout.name`	(`character`) Name of the layout
`property.name`	(`character`) Name of the property
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

Run getLayoutNames to list available layouts. Run getLayoutPropertyNames to list properties per layout.

Value

A `character` string specifying the type

Author(s)

Alexander Pico, Tanja Muetze, Georgi Kolishovski, Paul Shannon

Examples

```
getLayoutPropertyType('force-directed','defaultSpringLength')
# "double"
```

`getLayoutPropertyValue`

Get Layout Property Value

Description

Returns the appropriately typed value of the specified tunable property for the specified layout.

Usage

```
getLayoutPropertyValue(layout.name, property.name,
  base.url = .defaultBaseUrl)
```

Arguments

`layout.name`	(`character`) Name of the layout
`property.name`	(`character`) Name of the property
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

Run getLayoutNames to list available layouts. Run getLayoutPropertyNames to list properties per layout.

Value

The current value set for this layout property. Typically an `integer`, `numeric` or `character` string value.

Author(s)

Alexander Pico, Tanja Muetze, Georgi Kolishovski, Paul Shannon

Examples

```
getLayoutPropertyValue('force-directed','defaultSpringLength')
# 80
```

`getLineStyles` *Get Line Styles*

Description

Retrieve the names of the currently supported line types – values which can be used to render edges, and thus can be used in calls to 'setEdgeLineStyleRule'.

Usage

```
getLineStyles(base.url = .defaultBaseUrl)
```

Arguments

`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

A list of `character` strings, e.g., 'SOLID', 'DOT'

Examples

```
getLineStyles()
```

`getNetworkCenter` *Get Network Center*

Description

Retrieve the center of specified network.

Usage

```
getNetworkCenter(network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

Property value

Examples

```
getNetworkCenter()
```

`getNetworkCount` *Get the number of Cytoscape networks*

Description

Returns the number of Cytoscape networks in the current Cytoscape session

Usage

```
getNetworkCount(base.url = .defaultBaseUrl)
```

Arguments

`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

`numeric`

Author(s)

Alexander Pico, Tanja Muetze, Georgi Kolishovski, Paul Shannon

Examples

```
## Not run:
getNetworkCount()
# 3

## End(Not run)
```

`getNetworkList` *Get the list of Cytoscape networks*

Description

Returns the list of Cytoscape network names in the current Cytoscape session

Usage

```
getNetworkList(base.url = .defaultBaseUrl)
```

Arguments

`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

`list`

Author(s)

Alexander Pico, Tanja Muetze, Georgi Kolishovski, Paul Shannon

Examples

```
## Not run:
getNetworkList()
# 3

## End(Not run)
```

`getNetworkName` *Get the name of a network*

Description

Retrieve the title of a network

Usage

```
getNetworkName(suid = NULL, base.url = .defaultBaseUrl)
```

Arguments

`suid`	SUID of the network; default is current network. If a name is provided, then it is validated and returned.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

network name

Examples

```

getNetworkName()
getNetworkName(1111)
```

`getNetworkNDExId` *Get Network NDEx Id*

Description

Retrieve the NDEx externalId for a Cytoscape network, presuming it has already been exported to NDEx.

Usage

```
getNetworkNDExId(network = NULL, base.url = .cyndexBaseUrl)
```

Arguments

`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

If the Cytoscape network is not associated with an NDEx network, the return value will be NULL.

Value

NDEx identifier (`externalId`) or NULL

Examples

```
getNetworkNDExId()
```

`getNetworkProperty` *Get Network Property Values*

Description

Get values for any network property.

Usage

```
getNetworkProperty(visual.property, network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`visual.property`	Name of a visual property. See getVisualPropertyNames.
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

This method retrieves the actual property of the node, given the current visual style, factoring together any default, mapping and bypass setting.

Value

Property value

Examples

```
getNetworkProperty('NETWORK_SCALE_FACTOR')
```

`getNetworkSuid` *Get the SUID of a network*

Description

Retrieve the SUID of a network

Usage

```
getNetworkSuid(title = NULL, base.url = .defaultBaseUrl)
```

Arguments

`title`	Name of the network; default is "current" network. If an SUID is provided, then it is validated and returned.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

(`numeric`) Network suid

Author(s)

Alexander Pico

Examples

```
getNetworkSuid()
getNetworkSuid("myNetwork")
# 80
```

`getNetworkViews` *Get Network Views*

Description

Retrieve list of network view SUIDs

Usage

```
getNetworkViews(network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

List of network view SUIDs

Examples

```
getNetworkViews()
```

`getNetworkViewSuid` *Get the SUID of a network view*

Description

Retrieve the SUID of a network view

Usage

```
getNetworkViewSuid(network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape. If a network view SUID is provided, then it is validated and returned.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

(`numeric`) Network view suid. The first (presummably only) view associated a network is returned.

Author(s)

Alexander Pico

Examples

```
getNetworkViewSuid()
getNetworkViewSuid("myNetwork")
# 90
```

`getNetworkZoom` *Get Network Zoom*

Description

Retrieve the scale factor of specified network.

Usage

```
getNetworkZoom(network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

Property value

Examples

```
getNetworkZoom()
```

`getNodeAttribute` *DEPRECATED: getNodeAttribute*

Description

This function is only provided for compatibility with older versions of RCy3 and will be defunct and removed in the next releases. Use the replacement function instead: getTableValue

Usage

```
getNodeAttribute_deprecated
```

Value

None

`getNodeAttributeNames` *DEPRECATED: getNodeAttributeNames*

Description

This function is only provided for compatibility with older versions of RCy3 and will be defunct and removed in the next releases. Use the replacement function instead: getTableColumnNames

Usage

```
getNodeAttributeNames_deprecated
```

Value

None

`getNodeColor` *Get Node Color*

Description

Retrieve the actual fill color of specified nodes.

Usage

```
getNodeColor(node.names = NULL, network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`node.names`	List of node names
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

Property value

Examples

```
getNodeColor()
```

`getNodeCount` *Get Node Count*

Description

Reports the number of nodes in the network.

Usage

```
getNodeCount(network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

`numeric`

Author(s)

Alexander Pico, Tanja Muetze, Georgi Kolishovski, Paul Shannon

Examples

```
getNodeCount()
```

`getNodeHeight` *Get Node Height*

Description

Retrieve the actual height of specified nodes.

Usage

```
getNodeHeight(node.names = NULL, network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`node.names`	List of node names
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

Property value

Examples

```
getNodeHeight()
```

`getNodePosition` *DEFUNCT: getNodePosition*

Description

This function is defunct and will be removed in the next release. Use the replacement function instead: getNodeProperty

Usage

```
getNodePositiondefunct
```

Value

None

`getNodeProperty` *Get Node Property Values*

Description

Get values for any node property of the specified nodes.

Usage

```
getNodeProperty(node.names, visual.property, network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`node.names`	List of node names
`visual.property`	Name of a visual property. See getVisualPropertyNames.
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

This method retrieves the actual property of the node, given the current visual style, factoring together any default, mapping and bypass setting.

Value

Property value

Examples

```
getNodeProperty(c('node 0','node 1'),'NODE_SHAPE')
```

`getNodeSelectionColorDefault` *Get Node Selection Color Default*

Description

Retrieve the default selection node color.

Usage

```
getNodeSelectionColorDefault(style.name = "default",
  base.url = .defaultBaseUrl)
```

Arguments

`style.name`	Name of style; default is "default" style
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
getNodeSelectionColorDefault()
```

`getNodeShapes` *Get Node Shapes*

Description

Retrieve the names of the currently supported node shapes, which can then be used in calls to setNodeShapeRule and setDefaultVizMapValue.

Usage

```
getNodeShapes(base.url = .defaultBaseUrl)
```

Arguments

`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

A list of `character` strings, e.g. 'ELLIPSE', 'RECTANGLE'

Examples

```
getNodeShapes()
```

`getNodeSize` *Get Node Size*

Description

Retrieve the actual size of specified nodes.

Usage

```
getNodeSize(node.names = NULL, network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`node.names`	List of node names
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

Property value

Examples

```
getNodeSize()
```

`getNodeWidth` *Get Node Width*

Description

Retrieve the actual width of specified nodes.

Usage

```
getNodeWidth(node.names = NULL, network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`node.names`	List of node names
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

Property value

Examples

```
getNodeWidth()
```

`getSelectedEdgeCount` *Get Selected Edge Count*

Description

Returns the number of edges currently selected in the network.

Usage

```
getSelectedEdgeCount(network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

`numeric`

Author(s)

AlexanderPico, Tanja Muetze, Georgi Kolishovski, Paul Shannon

Examples

```
getSelectedEdgeCount()
```

`getSelectedEdges` *Get Selected Edges*

Description

Retrieve the names of all the edges selected in the network.

Usage

```
getSelectedEdges(network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

`list` of selected edge names

Examples

```
getSelectedEdges()
```

`getSelectedNodeCount` *Get Selected Node Count*

Description

Returns the number of nodes currently selected in the network.

Usage

```
getSelectedNodeCount(network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

`numeric`

Author(s)

AlexanderPico, Tanja Muetze, Georgi Kolishovski, Paul Shannon

Examples

```
getSelectedNodeCount()
```

`getSelectedNodes` *Get Selected Nodes*

Description

Retrieve the names of all the nodes selected in the network.

Usage

```
getSelectedNodes(network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

`list` of selected node names

Author(s)

AlexanderPico, Tanja Muetze, Georgi Kolishovski, Paul Shannon

Examples

```
getSelectedNodes()
```

`getStyleDependencies` *Get the values of dependencies in a style*

Description

Retrieves style dependency settings.

Usage

```
getStyleDependencies(style.name = "default",
  base.url = .defaultBaseUrl)
```

Arguments

`style.name`	Name of style; default is "default" style
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

server response

Available Dependencies

arrowColorMatchesEdge nodeCustomGraphicsSizeSync nodeSizeLocked

Examples

```
getStyleDependencies("myStyle")
```

`getTableColumnNames` *Get Table Column Names*

Description

Retrieve the names of all columns in a table

Usage

```
getTableColumnNames(table = "node", namespace = "default",
  network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`table`	name of table, e.g., node, edge, network; default is "node"
`namespace`	namespace of table, e.g., default
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

list of column names

Examples

```
getTableColumnNames()
getTableColumnNames('edge')
getTableColumnNames('network')
```

`getTableColumns` *Get table column values*

Description

Retrieve one or more columns of data from node, edge or network tables.

Usage

```
getTableColumns(table = "node", columns = NULL,
  namespace = "default", network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`table`	name of table, e.g., node (default), edge, network
`columns`	names of columns to retrieve values from as list object or comma-separated list; default is all columns
`namespace`	namespace of table; default is "default"
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

The 'SUID' column is always retrieved along with specified columns. The 'SUID' values are used as `row.names` in the returned `data.frame`.

Value

A `data.frame` of column values

Examples

```
getTableColumns()
getTableColumns('node','group')
```

`getTableColumnTypes` *Get Table Column Types*

Description

Retrieve the types of all columns in a table

Usage

```
getTableColumnTypes(table = "node", namespace = "default",
  network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`table`	name of table, e.g., node, edge, network; default is "node"
`namespace`	namespace of table, e.g., default
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

a named list of column types

Examples

```
getTableColumnTypes()
getTableColumnTypes('edge')
getTableColumnTypes('network')
```

`getTableValue` *Get table cell value*

Description

Retrieve the value from a specific row and column from node, edge or network tables.

Usage

```
getTableValue(table, row.name, column, namespace = "default",
  network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`table`	name of table, e.g., node, edge, network
`row.name`	Node, edge or network name, i.e., the value in the "name" column
`column`	name of column to retrieve values from
`namespace`	namespace of table; default is "default"
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

A `data.frame` of column values

Examples

```
getTableValue('node','node 1', 'score')
```

`getUninstalledApps` *List Uninstalled Apps*

Description

Retrieve list of apps not currently installed in Cytoscape.

Usage

```
getUninstalledApps(base.url = .defaultBaseUrl)
```

Arguments

`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

A list of uninstalled app names, versions and statuses

Examples

```
getUninstalledApps()
```

`getViewCoordinates` *DEFUNCT: getViewCoordinates*

Description

This function is defunct and will be removed in the next release.

Usage

```
getViewCoordinatesdefunct
```

Value

None

`getVisualPropertyDefault` *Get Visual Property Default*

Description

Retrieve the default value for a visual property.

Usage

```
getVisualPropertyDefault(property, style.name = "default",
  base.url = .defaultBaseUrl)
```

Arguments

`property`	Name of property, e.g., NODE_FILL_COLOR (see getVisualPropertyNames)
`style.name`	Name of style; default is "default" style
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
getVisualPropertyDefault('NODE_SIZE')
```

---

getVisualPropertyNames *Get Visual Property Names*

Description

Retrieve the names of all possible visual properties.

Usage

```
getVisualPropertyNames(base.url = .defaultBaseUrl)
```

Arguments

`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

List of names

Examples

```
getVisualPropertyNames()
```

---

getVisualStyleNames *Get Visual Style Names*

Description

Retrieve a list of all visual style names.

Usage

```
getVisualStyleNames(base.url = .defaultBaseUrl)
```

Arguments

`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

A list of names

Examples

```
getVisualStyleNames()
```

`getWindowCount` *DEPRECATED: getWindowCount*

Description

This function is only provided for compatibility with older versions of RCy3 and will be defunct and removed in the next releases. Use the replacement function instead: getNetworkCount

Usage

```
getWindowCountdeprecated
```

Value

Integer

`getWindowID` *DEPRECATED: getWindowID*

Description

This function is only provided for compatibility with older versions of RCy3 and will be defunct and removed in the next releases. Use the replacement function instead: getNetworkSuid

Usage

```
getWindowIDdeprecated
```

Value

Network SUID

`getWindowList` *DEPRECATED: getWindowList*

Description

This function is only provided for compatibility with older versions of RCy3 and will be defunct and removed in the next releases. Use the replacement function instead: getNetworkList

Usage

```
getWindowListdeprecated
```

Value

List of networks

`getZoom` *DEPRECATED: getZoom*

Description

This function is only provided for compatibility with older versions of RCy3 and will be defunct and removed in the next releases. Use the replacement function instead: getNetworkZoom

Usage

```
getZoomdeprecated
```

Value

Network zoom factor

`hideAllPanels` *Hide All Panels*

Description

Hide control, table, tool and results panels.

Usage

```
hideAllPanels(base.url = .defaultBaseUrl)
```

Arguments

`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
hideAllPanels()
```

`hideEdges` *Hide Edges*

Description

Hide (but do not delete) the specified edge or edges, by setting the Visible property bypass value to false.

Usage

```
hideEdges(edge.names, network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`edge.names`	List of edge names
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

This method permanently overrides any default values or mappings defined for this visual property of the edge or edges specified. This method ultimately calls the generic function, setEdgePropertyBypass, which can be used to set any visual property. To restore defaults and mappings, use unhideEdges or unhideAll.

Value

None

See Also

setEdgePropertyBypass, hideSelectedEdges, unhideEdges, unhideAll

Examples

```
hideEdges()
```

`hideNodes` *Hide Nodes*

Description

Hide (but do not delete) the specified node or nodes, by setting the Visible property bypass value to false.

Usage

```
hideNodes(node.names, network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`node.names`	List of node names
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

This method permanently overrides any default values or mappings defined for this visual property of the node or nodes specified. This method ultimately calls the generic function, setNodePropertyBypass, which can be used to set any visual property. To restore defaults and mappings, use unhideNodes or unhideAll.

Value

None

See Also

setNodePropertyBypass, hideSelectedNodes, unhideNodes, unhideAll

Examples

```
hideNodes()
```

`hidePanel` *Hide Panel*

Description

Hide a panel in the UI of Cytoscape. Other panels will expand into the space.

Usage

```
hidePanel(panel.name, base.url = .defaultBaseUrl)
```

Arguments

`panel.name`	Name of the panel. Multiple ways of referencing panels is supported: WEST, control panel, control, c SOUTH, table panel, table, ta SOUTH_WEST, tool panel, tool, to EAST, results panel, results, r
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
hidePanel('table')
```

`hideSelectedEdges` *Hide Selected Edges*

Description

Hide (but do not delete) the currently selected edges, by setting the Visible property bypass value to false.

Usage

```
hideSelectedEdges(network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

This method permanently overrides any default values or mappings defined for this visual property of the edge or edges specified. This method ultimately calls the generic function, setEdgePropertyBypass, which can be used to set any visual property. To restore defaults and mappings, use unhideEdges or unhideAll.

Value

None

See Also

setEdgePropertyBypass, hideEdges, unhideEdges, unhideAll

Examples

```
hideSelectedEdges()
```

`hideSelectedNodes` *Hide Selected Nodes*

Description

Hide (but do not delete) the currently selected nodes, by setting the Visible property bypass value to false.

Usage

```
hideSelectedNodes(network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

This method permanently overrides any default values or mappings defined for this visual property of the node or nodes specified. This method ultimately calls the generic function, setNodePropertyBypass, which can be used to set any visual property. To restore defaults and mappings, use unhideNodes or unhideAll.

Value

None

See Also

setNodePropertyBypass, hideNodes, unhideNodes, unhideAll

Examples

```
hideSelectedNodes()
```

`importNetworkFromFile` *Import Network From File*

Description

Loads a network from specified file

Usage

```
importNetworkFromFile(file = NULL, base.url = .defaultBaseUrl)
```

Arguments

`file`	Name of file in any of the supported formats (e.g., SIF, GML, XGMML, etc). If NULL, a demo network file in SIF format is loaded.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

(int) network SUID

Examples

```
importNetworkFromFile()
```

`importNetworkFromNDEx` *Import Network From NDEx*

Description

Import a network from the NDEx database into Cytoscape.

Usage

```
importNetworkFromNDEx(ndex.id, username = NULL, password = NULL,
  accessKey = NULL, base.url = .cyndexBaseUrl)
```

Arguments

`ndex.id`	Network `externalId` provided by NDEx. This is not the same as a Cytoscape SUID.
`username`	(optional) NDEx account username; required for private content
`password`	(optional) NDEx account password; required for private content
`accessKey`	(optional) NDEx accessKey; alternate acccess to private content
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

(integer) SUID of imported network

Examples

```
importNetworkFromNDEx(ndex.id)
```

`initEdgeAttribute` *DEFUNCT: initEdgeAttribute*

Description

This function is defunct and will be removed in the next release.

Usage

```
initEdgeAttributedefunct
```

Value

None

`initNodeAttribute` *DEFUNCT: initNodeAttribute*

Description

This function is defunct and will be removed in the next release.

Usage

```
initNodeAttributedefunct
```

Value

None

`installApp` *Install App*

Description

Installs an app in Cytoscape.

Usage

```
installApp(app, base.url = .defaultBaseUrl)
```

Arguments

`app`	Name of app
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
installApp()
```

`invertEdgeSelection` *Invert Edge Selection*

Description

Select all edges that were not selected and deselect all edges that were selected.

Usage

```
invertEdgeSelection(network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

`list` of newly selected edge SUIDs

Author(s)

AlexanderPico, Tanja Muetze, Georgi Kolishovski, Paul Shannon

Examples

```
invertEdgeSelection()
```

`invertNodeSelection` *Invert Node Selection*

Description

Select all nodes that were not selected and deselect all nodes that were selected.

Usage

```
invertNodeSelection(network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

`list` of newly selected node SUIDs

Author(s)

AlexanderPico, Tanja Muetze, Georgi Kolishovski, Paul Shannon

Examples

```
invertNodeSelection()
```

`layoutCopycat` *Copy a layout from one network to another*

Description

Sets the coordinates for each node in the target network to the coordinates of a matching node in the source network.

Usage

```
layoutCopycat(sourceNetwork, targetNetwork, sourceColumn = "name",
  targetColumn = "name", gridUnmapped = TRUE, selectUnmapped = TRUE,
  base.url = .defaultBaseUrl)
```

Arguments

`sourceNetwork`	(`character`) The name of network to get node coordinates from
`targetNetwork`	(`character`) The name of the network to apply coordinates to
`sourceColumn`	(optional `character`) The name of column in the sourceNetwork node table used to match nodes; default is 'name'
`targetColumn`	(optional `character`) The name of column in the targetNetwork node table used to match nodes; default is 'name'
`gridUnmapped`	(optional `character`) If this is set to true, any nodes in the target network that could not be matched to a node in the source network will be laid out in a grid; default is TRUE
`selectUnmapped`	optional `character`) If this is set to true, any nodes in the target network that could not be matched to a node in the source network will be selected in the target network; default is TRUE
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

Optional parameters such as `gridUnmapped` and `selectUnmapped` determine the behavior of target network nodes that could not be matched.

Value

None

Examples

```
layoutCopycat('network1','network2')
```

`layoutNetwork` *Apply a layout to a network*

Description

Apply a layout to a network

Usage

```
layoutNetwork(layout.name = NULL, network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`layout.name`	(`character`) Name of the layout (with optional parameters). If not specified, then the preferred layout set in the Cytoscape UI is applied.
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

Run getLayoutNames to list available layouts.

Value

None

Examples

```
layoutNetwork()
layoutNetwork('force-directed')
layoutNetwork('force-directed defaultSpringCoefficient=.00006 defaultSpringLength=80')
```

`listGroups` *List Groups*

Description

Retrieve a list of all group SUIDs in a network.

Usage

```
listGroups(network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

List of group SUIDs

Examples

```
listGroups()
```

`loadTableData` *Loads data into Cytoscape tables keyed by row*

Description

This function loads data into Cytoscape node/edge/network tables provided a common key, e.g., name. Data.frame column names will be used to set Cytoscape table column names.

Usage

```
loadTableData(data, data.key.column = "row.names", table = "node",
  table.key.column = "name", namespace = "default", network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`data`	(data.frame) each row is a node and columns contain node attributes
`data.key.column`	(char) name of data.frame column to use as key; default is "row.names"
`table`	(char) name of Cytoscape table to load data into, e.g., node, edge or network; default is "node"
`table.key.column`	(char) name of Cytoscape table column to use as key; default is "name"
`namespace`	namespace of table, e.g., default
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

Numeric values will be stored as Doubles in Cytoscape tables. Integer values will be stored as Integers. Character or mixed values will be stored as Strings. Logical values will be stored as Boolean. Existing columns with the same names will keep original type but values will be overwritten.

Value

server response

`lockNodeDimensions` *Lock Node Dimensions*

Description

Set a boolean value to have node width and height fixed to a single size value.

Usage

```
lockNodeDimensions(new.state, style.name = "default",
  base.url = .defaultBaseUrl)
```

Arguments

`new.state`	(Boolean) Whether to lock node width and height
`style.name`	Name of style; default is "default" style
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
lockNodeDimensions(TRUE)
```

`makeRandomGraph` *DEFUNCT: makeRandomGraph*

Description

This function is defunct and will be removed in the next release.

Usage

```
makeRandomGraphdefunct
```

Value

None

`makeSimpleGraph` *Make Simple Graph*

Description

This function creates a simple graphNEL object with various node and edge attribute types to help demonstrate round trip conversion with Cytoscape networks via RCy3.

Usage

```
makeSimpleGraph()
```

Value

A `graphNEL` object with a few nodes, edges and attributes

See Also

createNetworkFromGraph, createGraphFromNetwork, makeSimpleIgraph

Examples

```
{
makeSimpleGraph()
}
```

`makeSimpleIgraph` *Make Simple Igraph*

Description

This function creates a simple iGraph object with various node and edge attribute types to help demonstrate round trip conversion with Cytoscape networks via RCy3.

Usage

```
makeSimpleIgraph()
```

Value

A `igraph` object with a few nodes, edges and attributes

See Also

createNetworkFromIgraph, createIgraphFromNetwork, makeSimpleGraph

Examples

```
{
makeSimpleIgraph()
}
```

`mapTableColumn` *Map Table Column*

Description

Perform identifier mapping using an existing column of supported identifiers to populate a new column with identifiers mapped to the originals.

Usage

```
mapTableColumn(column, species, map.from, map.to, force.single = TRUE,
  table = "node", namespace = "default", network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`column`	Name of column containing identifiers of type specified by `map.from`.
`species`	Common name for species associated with identifiers, e.g., Human. See details.
`map.from`	Type of identifier found in specified `column`. See details.
`map.to`	Type of identifier to populate in new column. See details.
`force.single`	(optional) Whether to return only first result in cases of one-to-many mappings; otherwise the new column will hold lists of identifiers. Default is TRUE.
`table`	(optional) Name of table, e.g., node (default), edge or network
`namespace`	(optional) Namespace of table, e.g., default (default), shared or hidden
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

Supported species: Human, Mouse, Rat, Frog, Zebrafish, Fruit fly, Mosquito, Worm, Arabidopsis thaliana, Yeast, E. coli, Tuberculosis.

Supported identifier types (depending on species): Ensembl, Entrez Gene, Uniprot-TrEMBL, miRBase, UniGene, HGNC (symbols), MGI, RGD, SGD, ZFIN, FlyBase, WormBase, TAIR.

Value

dataframe with map.from and map.to columns. Beware: if map.to is not unique, it will be suffixed with an incrementing number in parentheses, e.g., if mapIdentifiers is repeated on the same network. However, the original map.to column will be returned regardless.

Examples

```
mapped.cols <- mapTableColumn('name','Yeast','Ensembl','SGD')
#          name        SGD
#17920  YER145C S000000947
#17921  YMR058W S000004662
#17922  YJL190C S000003726
#...
```

`mapVisualProperty` *Creates a mapping between an attribute and a visual property*

Description

Generates the appropriate data structure for the "mapping" parameter in setStyleMappings and createStyle.

Usage

```
mapVisualProperty(visual.prop, table.column, mapping.type,
  table.column.values, visual.prop.values, network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`visual.prop`	(char) name of visual property to map
`table.column`	(char) name of table column to map
`mapping.type`	(char) continuous, discrete or passthrough (c,d,p)
`table.column.values`	(list) list of values paired with visual.prop.values; skip for passthrough mapping
`visual.prop.values`	(list) list of values paired with table.column.values; skip for passthrough mapping
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

The paired list of values must be of the same length or mapping will fail. For gradient mapping, you may include two additional visual.prop.values in the first and last positions to map respectively to values less than and greater than those specified in table.column.values. Mapping will also fail if the data type of table.column.values does not match that of the existing table.column. Note that all imported numeric data are stored as Integers or Doubles in Cytosacpe tables; and character or mixed data are stored as Strings.

Value

(network=network, base.url=base.url) ready to convert into JSON by style mapping operations

List of visual properties

Node Border Line Type
Node Border Paint
Node Border Transparency
Node Border Width
Node CustomGraphics 1-9
Node CustomGraphics Position 1-9
Node CustomGraphics Size 1-9
Node CustomPaint 1-9
Node Depth
Node Fill Color
Node Height
Node Label
Node Label Color
Node Label Font Face
Node Label Font Size
Node Label Position
Node Label Transparency
Node Label Width
Node Network Image Visible
Node Paint
Node Selected
Node Selected Paint
Node Shape
Node Size
Node Tooltip
Node Transparency
Node Visible
Node Width
Node X Location
Node Y Location
Node Z Location

Edge Bend
Edge Curved
Edge Label
Edge Label Color
Edge Label Font Face
Edge Label Font Size
Edge Label Transparency
Edge Label Width
Edge Line Type
Edge Paint
Edge Selected
Edge Selected Paint
Edge Source Arrow Selected Paint
Edge Source Arrow Shape
Edge Source Arrow Size
Edge Source Arrow Unselected Paint
Edge Stroke Selected Paint
Edge Stroke Unselected Paint
Edge Target Arrow Selected Paint
Edge Target Arrow Shape
Edge Target Arrow Size
Edge Target Arrow Unselected Paint
Edge Tooltip
Edge Transparency
Edge Unselected Paint
Edge Visible
Edge Visual Property
Edge Width

Network Background Paint
Network Center X Location
Network Center Y Location
Network Center Z Location
Network Depth
Network Edge Selection
Network Height
Network Node Selection
Network Scale Factor
Network Size
Network Title
Network Width

See Also

setStyleMappings createStyle

Examples

```
mapVisualProperty('node fill color','score','c',c(-4.0,0.0,9.0),c('#99CCFF','#FFFFFF','#FF7777'))
mapVisualProperty('node shape','type','d',c('protein','metabolite'),c('ellipse','rectangle'))
mapVisualProperty('node label','alias','p')
```

`matchArrowColorToEdge` *Match Arrow Color To Edge*

Description

Set a boolean value to have arrow shapes share the same color as the edge.

Usage

```
matchArrowColorToEdge(new.state, style.name = "default",
  base.url = .defaultBaseUrl)
```

Arguments

`new.state`	(Boolean) Whether to match arrow color to edge.
`style.name`	Name of style; default is "default" style
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
matchArrowColorToEdge(TRUE)
```

`noa` *DEFUNCT: noa*

Description

This function is defunct and will be removed in the next release.

Usage

```
noadefunct
```

Value

None

`noa.names` *DEFUNCT: noa.names*

Description

This function is defunct and will be removed in the next release.

Usage

```
noa.namesdefunct
```

Value

None

`openAppStore` *Open App Store Page*

Description

Opens the Cytoscape App Store in a new tab in your default browser.

Usage

```
openAppStore(app, base.url = .defaultBaseUrl)
```

Arguments

`app`	Name of app
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
openAppStore()
```

`openSession` *Open Session File or URL*

Description

Open a session file or URL. This will clear all networks, tables and styles associated with current session. Be sure to saveSession first.

Usage

```
openSession(file.location = NULL, base.url = .defaultBaseUrl)
```

Arguments

`file.location`	File path or URL (with 'http' or 'https' prefix). Default is a sample session file.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

See Also

saveSession

Examples

```
openSession('/fullpath/mySession.CYS')
```

`ping` *DEPRECATED: ping*

Description

This function is only provided for compatibility with older versions of RCy3 and will be defunct and removed in the next releases. Use the replacement function instead: cytoscapePing

Usage

```
ping_deprecated
```

Value

None

`pluginVersion` *DEPRECATED: pluginVersion*

Description

This function is only provided for compatibility with older versions of RCy3 and will be defunct and removed in the next releases. Use the replacement function instead: cytoscapeVersionInfo

Usage

```
pluginVersiondeprecated
```

Value

Version information

`predictTimeToDisplayGraph` *DEFUNCT: predictTimeToDisplayGraph*

Description

This function is defunct and will be removed in the next release.

Usage

```
predictTimeToDisplayGraphdefunct
```

Value

None

`raiseWindow` *DEFUNCT: raiseWindow*

Description

This function is defunct and will be removed in the next release.

Usage

```
raiseWindowdefunct
```

Value

None

`RCy3` *RCy3: Functions to Access and Control Cytoscape*

Description

Vizualize, analyze and explore networks using Cytoscape via R.

Details

To learn more about RCy3, start with the vignettes: `browseVignettes("RCy3")`

`redraw` *DEPRECATED: redraw*

Description

This function is only provided for compatibility with older versions of RCy3 and will be defunct and removed in the next releases. Use the replacement function instead: setVisualStyle

Usage

```
redrawdeprecated
```

Value

None

`RemoveFromGroup` *Remove from Group*

Description

Removes the specified nodes and edges from the specified group.

Usage

```
RemoveFromGroup(group.name, nodes = NULL, nodes.by.col = "SUID",
  edges = NULL, edges.by.col = "SUID", network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`group.name`	Specifies the name used to identify the group
`nodes`	List of node SUIDs, names, other column values, or keyword: selected, unselected or all. Default is currently selected nodes.
`nodes.by.col`	name of node table column corresponding to provided nodes list. Default is 'SUID'.
`edges`	List of edge SUIDs, names, other column values, or keyword: selected, unselected or all. Default is currently selected edges.
`edges.by.col`	name of edge table column corresponding to provided edges list. Default is 'SUID'.
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
RemoveFromGroup()
```

`renameCytoscapeNetwork`

DEPRECATED: renameCytoscapeNetwork

Description

This function is only provided for compatibility with older versions of RCy3 and will be defunct and removed in the next releases. Use the replacement function instead: renameNetwork

Usage

```
renameCytoscapeNetworkdeprecated
```

Value

None

`renameNetwork` *Rename a network*

Description

Sets a new name for this network

Usage

```
renameNetwork(title, network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`title`	New name for the network
`network`	name or suid of the network that you want to rename; default is "current" network
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

Duplicate network names are not allowed

Value

None

Author(s)

Alexander Pico, Julia Gustavsen

Examples

```
## Not run:
renameNetwork("renamed network")

## End(Not run)
```

`renameTableColumn` *Rename Table Column*

Description

Sets a new name for a column.

Usage

```
renameTableColumn(column, new.name, table = "node",
  namespace = "default", network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`column`	Name of the column to rename
`new.name`	New name for the specified column
`table`	(optional) Name of table, e.g., node (default), edge or network
`namespace`	(optional) Namespace of table, e.g., default (default), shared or hidden
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
renameTableColumn('exp','log2FC')
```

`restoreLayout` *DEFUNCT: restoreLayout*

Description

This function is defunct and will be removed in the next release. Use the replacement function instead: layoutCopycat

Usage

```
restoreLayoutdefunct
```

Value

None

`saveImage` *DEPRECATED: saveImage*

Description

This function is only provided for compatibility with older versions of RCy3 and will be defunct and removed in the next releases. Use the replacement function instead: exportImage

Usage

```
saveImagedeprecated
```

Value

None

`saveLayout` *DEFUNCT: saveLayout*

Description

This function is defunct and will be removed in the next release. Use the replacement function instead: layoutCopycat

Usage

```
saveLayoutdefunct
```

Value

None

`saveNetwork` *DEPRECATED: saveNetwork*

Description

This function is only provided for compatibility with older versions of RCy3 and will be defunct and removed in the next releases. Use the replacement function instead: saveSession

Usage

```
saveNetwork_deprecated
```

Value

None

`saveSession` *Save Session to File*

Description

Saves the current Cytoscape session as a CYS file.

Usage

```
saveSession(filename = NULL, base.url = .defaultBaseUrl)
```

Arguments

`filename`	The path and name of the session file to save
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

If no `filename` is provided, then it attempts to save to an existing CYS file associated with the session. If `filename` already exists, then it is overwritten.

Value

server response

Examples

```
saveSession('/fullpath/mySession')
saveSession()
```

`selectAllEdges` *Select all edges*

Description

Selects all edges in a Cytoscape Network

Usage

```
selectAllEdges(network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

Selects all edges in a specified network.

Author(s)

Alexander Pico, Julia Gustavsen

Examples

```
## Not run:
cw <- CytoscapeWindow('new.demo', new('graphNEL'))
selectAllEdges(cw)

## End(Not run)
```

`selectAllNodes` *Select all nodes*

Description

Selects all nodes in a Cytoscape Network

Usage

```
selectAllNodes(network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`network`	name or suid of the network into which you want to select; default is "current" network
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

Selects all nodes in a specified network.

Author(s)

Alexander Pico, Julia Gustavsen

See Also

`selectNodes`

Examples

```
selectAllNodes()
```

`selectEdges` *Select Edges*

Description

Select edges in the network by SUID, name or other column values.

Usage

```
selectEdges(edges, by.col = "SUID", preserve.current.selection = TRUE,
  network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`edges`	List of edge SUIDs, names or other column values
`by.col`	Edge table column to lookup up provide edge values. Default is 'SUID'.
`preserve.current.selection`	`boolean` Whether to maintain previously selected edges.
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

`list` of newly selected edge SUIDs

Author(s)

AlexanderPico, Tanja Muetze, Georgi Kolishovski, Paul Shannon

Examples

```
selectEdges()
```

`selectEdgesAdjacentToSelectedNodes`

Select Edges Adjacent To Selected Nodes

Description

Takes currently selected nodes and adds to the selection all edges connected to those nodes, regardless of directionality.

Usage

```
selectEdgesAdjacentToSelectedNodes(network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

Lists of SUIDs for currently selected nodes and edges

Examples

```
selectEdgesAdjacentToSelectedNodes()
```

`selectEdgesConnectedBySelectedNodes`

DEPRECATED: selectEdgesConnectedBySelectedNodes

Description

This function is only provided for compatibility with older versions of RCy3 and will be defunct and removed in the next releases. Use the replacement function instead: selectEdgesConnectingSelectedNodes

Usage

```
selectEdgesConnectedBySelectedNodes_deprecated
```

Value

None

`selectEdgesConnectingSelectedNodes`

Select the edges connecting selected nodes in Cytoscape Network

Description

Selects edges in a Cytoscape Network connecting the selected nodes

Usage

```
selectEdgesConnectingSelectedNodes(network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

network with edges selected

Author(s)

Alexander Pico, Julia Gustavsen

Examples

```
## Not run:
selectEdgesConnectingSelectedNodes()

## End(Not run)
```

`selectFirstNeighbors` *Select first neighbor nodes*

Description

Select nodes directly connected to currently selected nodes. Can specify connection directionality using the direction param.

Usage

```
selectFirstNeighbors(direction = "any", network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`direction`	direction of connections to neighbors to follow, e.g., incoming, outgoing, undirected, or any (default)
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

list of suids of selected nodes, including original selection

Examples

```
selectFirstNeighbors()
selectFirstNeighors('outgoing')
selectFirstNeighors('incoming')
```

`selectFirstNeighborsOfSelectedNodes` *DEPRECATED: selectFirstNeighborsOfSelectedNodes*

Description

This function is only provided for compatibility with older versions of RCy3 and will be defunct and removed in the next releases. Use the replacement function instead: selectFirstNeighbors

Usage

```
selectFirstNeighborsOfSelectedNodesdeprecated
```

Value

List of node SUIDs

`selectNodes` *Select Nodes*

Description

Select nodes in the network by SUID, name or other column values.

Usage

```
selectNodes(nodes, by.col = "SUID", preserve.current.selection = TRUE,
  network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`nodes`	List of node SUIDs, names or other column values
`by.col`	Node table column to lookup up provide node values. Default is 'SUID'.
`preserve.current.selection`	`boolean` Whether to maintain previously selected nodes.
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

`list` of newly selected node SUIDs

Author(s)

AlexanderPico, Tanja Muetze, Georgi Kolishovski, Paul Shannon

Examples

```
selectNodes()
```

`sendEdges` *DEFUNCT: sendEdges*

Description

This function is only provided for compatibility with older versions of RCy3 and will be defunct and removed in the next releases.

Usage

```
sendEdgesdefunct
```

Value

None

`sendNodes` *DEFUNCT: sendNodes*

Description

This function is only provided for compatibility with older versions of RCy3 and will be defunct and removed in the next releases.

Usage

```
sendNodesdefunct
```

Value

None

`setBackgroundColorDefault` *Set Background Color Default*

Description

Set the default background color.

Usage

```
setBackgroundColorDefault(new.color, style.name = "default",
  base.url = .defaultBaseUrl)
```

Arguments

`new.color`	Color as hex code, e.g., #FD5903
`style.name`	Name of style; default is "default" style
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
setBackgroundColorDefault('#888888')
```

`setCenter` *DEPRECATED: setCenter*

Description

This function is only provided for compatibility with older versions of RCy3 and will be defunct and removed in the next releases. Use the replacement function instead: setNetworkCenterBypass

Usage

```
setCenterdeprecated
```

Value

None

`setCommandProperties` *DEFUNCT: setCommandProperties*

Description

This function is defunct and will be removed in the next release. Use the replacement function instead: commandsRun

Usage

```
setCommandPropertiesdefunct
```

Value

None

`setCurrentNetwork` *Set current network*

Description

Selects the given network as "current"

Usage

```
setCurrentNetwork(network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`network`	name or suid of the network that you want set as current
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

server response

Examples

```
setCurrentNetwork('MyNetwork')
```

`setCurrentView` *Set Current View*

Description

Set which network view is "current".

Usage

```
setCurrentView(network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`network`	(optional) Name or SUID of a network or view. The first (presummably only) view associated a network is used if a specific view SUID is not provided.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

Takes first (presumably only) view associated with provided network

Value

None

Examples

```
setCurrentView()
```

`setDefaultEdgeReverseSelectionColor` *DEFUNCT: setDefaultEdgeReverseSelectionColor*

Description

This function is defunct and will be removed in the next release.

Usage

```
setDefaultEdgeReverseSelectionColordefunct
```

Value

None

`setDefaultNodeReverseSelectionColor` *DEFUNCT: setDefaultNodeReverseSelectionColor*

Description

This function is defunct and will be removed in the next release.

Usage

```
setDefaultNodeReverseSelectionColordefunct
```

Value

None

`setEdgeAttributes` *DEFUNCT: setEdgeAttributes*

Description

This function is defunct and removed in the next releases.

Usage

```
setEdgeAttributesdefunct
```

Value

None

`setEdgeColorBypass` *Set Edge Color Bypass*

Description

Override the color for particular edges.

Usage

```
setEdgeColorBypass(edge.names, new.colors, network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`edge.names`	List of edge names
`new.colors`	List of hex colors, or single value
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

This method permanently overrides any default values or mappings defined for this visual property of the edge or edges specified. This method ultimately calls the generic function, setEdgePropertyBypass, which can be used to set any visual property. To restore defaults and mappings, use clearEdgePropertyBypass.

Value

None

See Also

setEdgePropertyBypass, clearEdgePropertyBypass

Examples

```
setEdgeColorBypass()
```

`setEdgeColorDefault` *Set Edge Color Default*

Description

Set the default edge color.

Usage

```
setEdgeColorDefault(new.color, style.name = "default",
  base.url = .defaultBaseUrl)
```

Arguments

`new.color`	Color as hex code, e.g., #FD5903
`style.name`	Name of style; default is "default" style
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
setEdgeColorDefault('#FD5903')
```

`setEdgeColorMapping` *Set Edge Color Mapping*

Description

Map table column values to colors to set the edge color.

Usage

```
setEdgeColorMapping(table.column, table.column.values = NULL,
  colors = NULL, mapping.type = "c", default.color = NULL,
  style.name = "default", network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`table.column`	Name of Cytoscape table column to map values from
`table.column.values`	List of values from Cytoscape table to be used in mapping
`colors`	List of hex colors to map to table.column.values
`mapping.type`	(char) continuous, discrete or passthrough (c,d,p); default is continuous
`default.color`	Hex color to set as default
`style.name`	Name of style; default is "default" style
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
setNodeColorMapping('score', c(0,5), c('#FFFFFF','#FF7755'))
```

`setEdgeFontFaceBypass` *Set Edge Font Face Bypass*

Description

Override the font face for particular edges.

Usage

```
setEdgeFontFaceBypass(edge.names, new.fonts, network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`edge.names`	List of edge names
`new.fonts`	List of font faces, or single value
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

This method permanently overrides any default values or mappings defined for this visual property of the edge or edges specified. This method ultimately calls the generic function, setEdgePropertyBypass, which can be used to set any visual property. To restore defaults and mappings, use clearEdgePropertyBypass.

Value

None

See Also

setEdgePropertyBypass, clearEdgePropertyBypass

Examples

```
setEdgeFontFaceBypass()
```

`setEdgeFontSizeBypass` *Set Edge Font Size Bypass*

Description

Override the font size for particular edges.

Usage

```
setEdgeFontSizeBypass(edge.names, new.sizes, network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`edge.names`	List of edge names
`new.sizes`	List of size values, or single value
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

This method permanently overrides any default values or mappings defined for this visual property of the edge or edges specified. This method ultimately calls the generic function, setEdgePropertyBypass, which can be used to set any visual property. To restore defaults and mappings, use clearEdgePropertyBypass.

Value

None

See Also

setEdgePropertyBypass, clearEdgePropertyBypass

Examples

```
setEdgeFontSizeBypass()
```

`setEdgeFontSizeDefault` *Set Edge Font Size Default*

Description

Set the default edge font size.

Usage

```
setEdgeFontSizeDefault(new.size, style.name = "default",
  base.url = .defaultBaseUrl)
```

Arguments

`new.size`	Numeric value for size
`style.name`	Name of style; default is "default" style
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
setEdgeFontSizeDefault(12)
```

`setEdgeLabelBypass` *Set Edge Label Bypass*

Description

Override the label for particular edges.

Usage

```
setEdgeLabelBypass(edge.names, new.labels, network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`edge.names`	List of edge names
`new.labels`	List of labels, or single value
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

This method permanently overrides any default values or mappings defined for this visual property of the edge or edges specified. This method ultimately calls the generic function, setEdgePropertyBypass, which can be used to set any visual property. To restore defaults and mappings, use clearEdgePropertyBypass.

Value

None

See Also

setEdgePropertyBypass, clearEdgePropertyBypass

Examples

```
setEdgeLabelBypass()
```

`setEdgeLabelColorBypass`

Set Edge Label Color Bypass

Description

Override the label color for particular edges.

Usage

```
setEdgeLabelColorBypass(edge.names, new.colors, network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`edge.names`	List of edge names
`new.colors`	List of hex colors, or single value
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

This method permanently overrides any default values or mappings defined for this visual property of the edge or edges specified. This method ultimately calls the generic function, setEdgePropertyBypass, which can be used to set any visual property. To restore defaults and mappings, use clearEdgePropertyBypass.

Value

None

See Also

setEdgePropertyBypass, clearEdgePropertyBypass

Examples

```
setEdgeLabelColorBypass()
```

`setEdgeLabelMapping` *Set Edge Label Mapping*

Description

Pass the values from a table column to display as edge labels.

Usage

```
setEdgeLabelMapping(table.column, style.name = "default",
  network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`table.column`	Name of Cytoscape table column to map values from
`style.name`	Name of style; default is "default" style
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
setEdgeLabelMapping('label')
```

`setEdgeLabelOpacityBypass`

Set Edge Label Opacity Bypass

Description

Override the label opacity for particular edges.

Usage

```
setEdgeLabelOpacityBypass(edge.names, new.value, network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`edge.names`	List of edge names
`new.value`	List of opacity values, or single value
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

This method permanently overrides any default values or mappings defined for this visual property of the edge or edges specified. This method ultimately calls the generic function, setEdgePropertyBypass, which can be used to set any visual property. To restore defaults and mappings, use clearEdgePropertyBypass.

Value

None

See Also

setEdgePropertyBypass, clearEdgePropertyBypass

Examples

```
setEdgeLabelOpacityBypass()
```

`setEdgeLineStyleBypass` *Set Edge Line Style Bypass*

Description

Override the style for particular edges.

Usage

```
setEdgeLineStyleBypass(edge.names, new.styles, network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`edge.names`	List of edge names
`new.styles`	List of style values, or single value
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

This method permanently overrides any default values or mappings defined for this visual property of the edge or edges specified. This method ultimately calls the generic function, setEdgePropertyBypass, which can be used to set any visual property. To restore defaults and mappings, use clearEdgePropertyBypass.

Value

None

See Also

setEdgePropertyBypass, clearEdgePropertyBypass

Examples

```
setEdgeLineStyleBypass()
```

`setEdgeLineStyleDefault`

Set Edge Line Style Default

Description

Set the default edge style.

Usage

```
setEdgeLineStyleDefault(new.line.style, style.name = "default",
  base.url = .defaultBaseUrl)
```

Arguments

`new.line.style`	Name of line style, e.g., SOLID, LONG_DASH, etc (see getLineStyles)
`style.name`	Name of style; default is "default" style
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
setEdgeLineStyleDefault('LONG_DASH')
```

`setEdgeLineStyleMapping`

Set Edge Line Style Mapping

Description

Map table column values to styles to set the edge style.

Usage

```
setEdgeLineStyleMapping(table.column, table.column.values, line.styles,
  default.line.style = "SOLID", style.name = "default",
  network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`table.column`	Name of Cytoscape table column to map values from
`table.column.values`	List of values from Cytoscape table to be used in mapping
`line.styles`	List of line styles. See getLineStyles.
`default.line.style`	Style to set as default. See getLineStyles.
`style.name`	Name of style; default is "default" style
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
setEdgeLineStyleMapping('type',c('pp','pd'),c('SOLID','LONG_DASH'))
```

`setEdgeLineWidthBypass`

Set Edge Line Width Bypass

Description

Override the width for particular edges.

Usage

```
setEdgeLineWidthBypass(edge.names, new.widths, network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`edge.names`	List of edge names
`new.widths`	List of width values, or single value
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

This method permanently overrides any default values or mappings defined for this visual property of the edge or edges specified. This method ultimately calls the generic function, setEdgePropertyBypass, which can be used to set any visual property. To restore defaults and mappings, use clearEdgePropertyBypass.

Value

None

See Also

setEdgePropertyBypass, clearEdgePropertyBypass

Examples

```
setEdgeLineWidthBypass()
```

`setEdgeLineWidthDefault`

Set Edge Line Width Default

Description

Set the default edge width.

Usage

```
setEdgeLineWidthDefault(new.width, style.name = "default",
  base.url = .defaultBaseUrl)
```

Arguments

`new.width`	Numeric value for width
`style.name`	Name of style; default is "default" style
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
setEdgeLineWidthDefault(3)
```

`setEdgeLineWidthMapping`

Set Edge Line Width Mapping

Description

Map table column values to widths to set the edge line width.

Usage

```
setEdgeLineWidthMapping(table.column, table.column.values = NULL,
  widths = NULL, mapping.type = "c", default.width = NULL,
  style.name = "default", network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`table.column`	Name of Cytoscape table column to map values from
`table.column.values`	List of values from Cytoscape table to be used in mapping
`widths`	List of width values to map to table.column.values
`mapping.type`	(char) continuous, discrete or passthrough (c,d,p); default is continuous
`default.width`	Width value to set as default for all unmapped values for all unmapped values.
`style.name`	Name of style; default is "default" style
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
setEdgeLineWidthMapping('score', c(0,30), c(1,5))
```

`setEdgeOpacityBypass` *Set Edge Opacity Bypass*

Description

Override the opacity for particular edges.

Usage

```
setEdgeOpacityBypass(edge.names, new.values, network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`edge.names`	List of edge names
`new.values`	List of values to set, or single value
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

This method permanently overrides any default values or mappings defined for this visual property of the edge or edges specified. This method ultimately calls the generic function, setEdgePropertyBypass, which can be used to set any visual property. To restore defaults and mappings, use clearEdgePropertyBypass.

Value

None

See Also

setEdgePropertyBypass, clearEdgePropertyBypass

Examples

```
setEdgeOpacityBypass()
```

`setEdgeOpacityMapping` *Set Edge Opacity Mapping*

Description

Map table column values to opacities to set the node opacity.

Usage

```
setEdgeOpacityMapping(table.column, table.column.values = NULL,
  opacities = NULL, mapping.type = "c", default.opacity = NULL,
  style.name = "default", network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`table.column`	Name of Cytoscape table column to map values from
`table.column.values`	List of values from Cytoscape table to be used in mapping
`opacities`	(integer) values between 0 and 255; 0 is invisible
`mapping.type`	(char) continuous, discrete or passthrough (c,d,p); default is continuous
`default.opacity`	Opacity value to set as default for all unmapped values
`style.name`	Name of style; default is "default" style
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
setEdgeOpacityMapping('score', c(-5,5), c(50,255))
```

`setEdgePropertyBypass` *Set Edge Property Bypass*

Description

Set bypass values for any edge property of the specified edges, overriding default values and mappings defined by any visual style.

Usage

```
setEdgePropertyBypass(edge.names, new.values, visual.property,
  bypass = TRUE, network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`edge.names`	List of edge names
`new.values`	List of values to set, or single value
`visual.property`	Name of a visual property. See getVisualPropertyNames.
`bypass`	Whether to set permanent bypass value. Default is `TRUE`.
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

This method permanently overrides any default values or mappings defined for the visual properties of the edge or edges specified. To restore defaults and mappings, use clearEdgePropertyBypass.

Value

None

See Also

clearEdgePropertyBypass

Examples

```
setEdgePropertyBypass()
```

---

setEdgeSelectionColorDefault

Set Edge Selection Color Default

Description

Set the default selected edge color.

Usage

```
setEdgeSelectionColorDefault(new.color, style.name = "default",
  base.url = .defaultBaseUrl)
```

Arguments

`new.color`	Color as hex code, e.g., #FD5903
`style.name`	Name of style; default is "default" style
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
setEdgeSelectionColorDefault('#FD5903')
```

---

setEdgeSourceArrowColorBypass

Set Edge Source Arrow Color Bypass

Description

Override the source arrow color for particular edges.

Usage

```
setEdgeSourceArrowColorBypass(edge.names, new.colors, network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`edge.names`	List of edge names
`new.colors`	List of hex colors, or single value
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

This method permanently overrides any default values or mappings defined for this visual property of the edge or edges specified. This method ultimately calls the generic function, setEdgePropertyBypass, which can be used to set any visual property. To restore defaults and mappings, use clearEdgePropertyBypass.

Value

None

See Also

setEdgePropertyBypass, clearEdgePropertyBypass

Examples

```
setEdgeSourceArrowColorBypass()
```

`setEdgeSourceArrowColorDefault`

Set Edge Source Arrow Color Default

Description

Set the default edge source arrow color.

Usage

```
setEdgeSourceArrowColorDefault(new.color, style.name = "default",
  base.url = .defaultBaseUrl)
```

Arguments

`new.color`	Color as hex code, e.g., #FD5903
`style.name`	Name of style; default is "default" style
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
setEdgeSourceArrowColorDefault('#FD5903')
```

`setEdgeSourceArrowColorMapping` *Set Edge Source Arrow Color Mapping*

Description

Map table column values to colors to set the source arrow color.

Usage

```
setEdgeSourceArrowColorMapping(table.column, table.column.values = NULL,
  colors = NULL, mapping.type = "c", default.color = NULL,
  style.name = "default", network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`table.column`	Name of Cytoscape table column to map values from
`table.column.values`	List of values from Cytoscape table to be used in mapping
`colors`	List of hex colors to map to table.column.values
`mapping.type`	(char) continuous, discrete or passthrough (c,d,p); default is continuous
`default.color`	Hex color to set as default
`style.name`	Name of style; default is "default" style
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
setEdgeSourceArrowColorMapping('score', c(0,5), c('#FFFFFF','#FF7755'))
```

`setEdgeSourceArrowMapping`

Set Edge Source Arrow Mapping

Description

Map table column values to shapes to set the source arrow shape.

Usage

```
setEdgeSourceArrowMapping(table.column, table.column.values, shapes,
  default.shape = "ARROW", style.name = "default", network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`table.column`	Name of Cytoscape table column to map values from
`table.column.values`	List of values from Cytoscape table to be used in mapping
`shapes`	List of shapes to map to table.column.values. See getArrowShapes
`default.shape`	Shape to set as default. See getArrowShapes
`style.name`	Name of style; default is "default" style
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
setEdgeSourceArrowMapping('type',c('activation','inhibition'),c('ARROW','T'))
```

`setEdgeSourceArrowShapeBypass`

Set Edge Source Arrow Shape Bypass

Description

Override the source arrow shape for particular edges.

Usage

```
setEdgeSourceArrowShapeBypass(edge.names, new.shapes, network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`edge.names`	List of edge names
`new.shapes`	List of shapes, or single value. See getArrowShapes.
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

This method permanently overrides any default values or mappings defined for this visual property of the edge or edges specified. This method ultimately calls the generic function, setEdgePropertyBypass, which can be used to set any visual property. To restore defaults and mappings, use clearEdgePropertyBypass.

Value

None

See Also

setEdgePropertyBypass, clearEdgePropertyBypass

Examples

```
setEdgeSourceArrowShapeBypass()
```

`setEdgeSourceArrowShapeDefault`

Set Edge Source Arrow Shape Default

Description

Set the default edge source arrow shape.

Usage

```
setEdgeSourceArrowShapeDefault(new.shape, style.name = "default",
  base.url = .defaultBaseUrl)
```

Arguments

`new.shape`	Name of shape, e.g., ARROW, T, etc (see getArrowShapes)
`style.name`	Name of style; default is "default" style
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
setEdgeSourceArrowShapeDefault('ARROW')
```

`setEdgeTargetArrowColorBypass`

Set Edge Target Arrow Color Bypass

Description

Override the target arrow color for particular edges.

Usage

```
setEdgeTargetArrowColorBypass(edge.names, new.colors, network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`edge.names`	List of edge names
`new.colors`	List of hex colors, or single value
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

This method permanently overrides any default values or mappings defined for this visual property of the edge or edges specified. This method ultimately calls the generic function, setEdgePropertyBypass, which can be used to set any visual property. To restore defaults and mappings, use clearEdgePropertyBypass.

Value

None

See Also

setEdgePropertyBypass, clearEdgePropertyBypass

Examples

```
setEdgeTargetArrowColorBypass()
```

---

setEdgeTargetArrowColorDefault

Set Edge Target Arrow Color Default

Description

Set the default edge target arrow color.

Usage

```
setEdgeTargetArrowColorDefault(new.color, style.name = "default",
  base.url = .defaultBaseUrl)
```

Arguments

`new.color`	Color as hex code, e.g., #FD5903
`style.name`	Name of style; default is "default" style
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
setEdgeTargetArrowColorDefault('#FD5903')
```

`setEdgeTargetArrowColorMapping`

Set Edge Target Arrow Color Mapping

Description

Map table column values to colors to set the target arrow color.

Usage

```
setEdgeTargetArrowColorMapping(table.column, table.column.values = NULL,
  colors = NULL, mapping.type = "c", default.color = NULL,
  style.name = "default", network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`table.column`	Name of Cytoscape table column to map values from
`table.column.values`	List of values from Cytoscape table to be used in mapping
`colors`	List of hex colors to map to table.column.values
`mapping.type`	(char) continuous, discrete or passthrough (c,d,p); default is continuous
`default.color`	Hex color to set as default
`style.name`	Name of style; default is "default" style
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
setEdgeTargetArrowColorMapping('score', c(0,5), c('#FFFFFF','#FF7755'))
```

`setEdgeTargetArrowMapping`

Set Edge Target Arrow Mapping

Description

Map table column values to shapes to set the target arrow shape.

Usage

```
setEdgeTargetArrowMapping(table.column, table.column.values, shapes,
  default.shape = "ARROW", style.name = "default", network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`table.column`	Name of Cytoscape table column to map values from
`table.column.values`	List of values from Cytoscape table to be used in mapping
`shapes`	List of shapes to map to table.column.values. See getArrowShapes
`default.shape`	Shape to set as default. See getArrowShapes
`style.name`	Name of style; default is "default" style
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
setEdgeTargetArrowMapping('type',c('activation','inhibition'),c('ARROW','T'))
```

`setEdgeTargetArrowShapeBypass`

Set Edge Target Arrow Shape Bypass

Description

Override the target arrow shape for particular edges.

Usage

```
setEdgeTargetArrowShapeBypass(edge.names, new.shapes, network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`edge.names`	List of edge names
`new.shapes`	List of values to set, or single value. See getArrowShapes.
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

This method permanently overrides any default values or mappings defined for this visual property of the edge or edges specified. This method ultimately calls the generic function, setEdgePropertyBypass, which can be used to set any visual property. To restore defaults and mappings, use clearEdgePropertyBypass.

Value

None

See Also

setEdgePropertyBypass, clearEdgePropertyBypass

Examples

```
setEdgeTargetArrowShapeBypass()
```

`setEdgeTargetArrowShapeDefault`

Set Edge Target Arrow Shape Default

Description

Set the default edge target arrow shape.

Usage

```
setEdgeTargetArrowShapeDefault(new.shape, style.name = "default",
  base.url = .defaultBaseUrl)
```

Arguments

`new.shape`	Name of shape, e.g., ARROW, T, etc (see getArrowShapes)
`style.name`	Name of style; default is "default" style
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
setEdgeTargetArrowShapeDefault('ARROW')
```

`setEdgeTooltipBypass` *Set Edge Tooltip Bypass*

Description

Override the tooltip for particular edges.

Usage

```
setEdgeTooltipBypass(edge.names, new.values, network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`edge.names`	List of edge names
`new.values`	List of tooltip values, or single value
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

This method permanently overrides any default values or mappings defined for this visual property of the edge or edges specified. This method ultimately calls the generic function, setEdgePropertyBypass, which can be used to set any visual property. To restore defaults and mappings, use clearEdgePropertyBypass.

Value

None

See Also

setEdgePropertyBypass, clearEdgePropertyBypass

Examples

```
setEdgeTooltipBypass()
```

`setEdgeTooltipMapping` *Set Edge Tooltip Mapping*

Description

Pass the values from a table column to display as edge tooltips.

Usage

```
setEdgeTooltipMapping(table.column, style.name = "default",
  network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`table.column`	Name of Cytoscape table column to map values from
`style.name`	Name of style; default is "default" style
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
setEdgeTooltipMapping('description')
```

`setGraph` *DEFUNCT: setGraph*

Description

This function is defunct and will be removed in the next release.

Usage

```
setGraphdefunct
```

Value

None

`setLayoutProperties` *Set Layout Properties*

Description

Sets the specified properties for the specified layout. Unmentioned properties are left unchanged.

Usage

```
setLayoutProperties(layout.name, properties.list,
  base.url = .defaultBaseUrl)
```

Arguments

`layout.name`	(`character`) Name of the layout
`properties.list`	(`list`) List of one or more `property=value` pairs
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

Run getLayoutNames to list available layouts. Run getLayoutPropertyNames to list properties per layout.

Value

None

Author(s)

Alexander Pico, Tanja Muetze, Georgi Kolishovski, Paul Shannon

Examples

```
setLayoutProperties('force-directed', list(defaultSpringLength=50, defaultSpringCoefficient=6E-04))
# Successfully updated the property 'defaultSpringLength'.
# Successfully updated the property 'defaultSpringCoefficient'.
```

`setNetworkCenterBypass` *Set Network Center Bypass*

Description

Set the bypass value for center x and y for the network. This function could be used to pan and scroll the Cytoscape canvas.

Usage

```
setNetworkCenterBypass(x, y, bypass = FALSE, network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`x`	Coordinate value, increases going to the right.
`y`	Coordinate value, increase going down.
`bypass`	Whether to set permanent bypass value. Default is `FALSE` per common use of temporary center settings.
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

This method permanently overrides any default values for this visual property. This method ultimately calls the generic function, setNetworkPropertyBypass, which can be used to set any visual property. To restore defaults, use clearNetworkPropertyBypass.

Value

None

See Also

setNetworkPropertyBypass, clearNetworkPropertyBypass

Examples

```
setNetworkCenterBypass()
```

`setNetworkPropertyBypass`

Set Network Property Bypass

Description

Set bypass values for any network property, overriding default values defined by any visual style.

Usage

```
setNetworkPropertyBypass(new.value, visual.property, bypass = TRUE,
  network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`new.value`	Value to set
`visual.property`	Name of a visual property. See getVisualPropertyNames.
`bypass`	Whether to set permanent bypass value. Default is `TRUE`.
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

This method permanently overrides any default values or mappings defined for the visual properties of the node or nodes specified. To restore defaults and mappings, use clearNodePropertyBypass.

Value

None

See Also

clearNetworkPropertyBypass

Examples

```
setNetworkPropertyBypass()
```

`setNetworkZoomBypass` *Set Network Zoom Bypass*

Description

Set the bypass value for scale factor for the network.

Usage

```
setNetworkZoomBypass(new.value, bypass = FALSE, network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`new.value`	Zoom factor
`bypass`	Whether to set permanent bypass value. Default is `FALSE` per common use of temporary zoom settings.
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

This method permanently overrides any default values for this visual property. This method ultimately calls the generic function, setNetworkPropertyBypass, which can be used to set any visual property. To restore defaults, use clearNetworkPropertyBypass.

Value

None

See Also

setNetworkPropertyBypass, clearNetworkPropertyBypass

Examples

```
setNetworkZoomBypass()
```

`setNodeAttributes` *DEFUNCT: setNodeAttributes*

Description

This function is defunct and removed in the next releases.

Usage

```
setNodeAttributesdefunct
```

Value

None

`setNodeBorderColorBypass` *Set Node Border Color Bypass*

Description

Override the border color for particular nodes.

Usage

```
setNodeBorderColorBypass(node.names, new.colors, network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`node.names`	List of node names
`new.colors`	List of hex colors, or single value
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

This method permanently overrides any default values or mappings defined for this visual property of the node or nodes specified. This method ultimately calls the generic function, setNodePropertyBypass, which can be used to set any visual property. To restore defaults and mappings, use clearNodePropertyBypass, see examples.

Value

None

See Also

setNodePropertyBypass, clearNodePropertyBypass

Examples

```
setNodeBorderColorBypass('Node 1', '#FF55AA')
setNodeBorderColorBypass(c('Node 1','Node 2'), '#FF55AA')
clearNodePropertyBypass(c('Node 1','Node 2'), 'NODE_BORDER_PAINT')
```

`setNodeBorderColorDefault`

Set Node Border Color Default

Description

Set the default node border color.

Usage

```
setNodeBorderColorDefault(new.color, style.name = "default",
  base.url = .defaultBaseUrl)
```

Arguments

`new.color`	Color as hex code, e.g., #FD5903
`style.name`	Name of style; default is "default" style
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
setNodeBorderColorDefault('#FD5903')
```

`setNodeBorderColorMapping`

Set Node Border Color Mapping

Description

Map table column values to colors to set the node border color.

Usage

```
setNodeBorderColorMapping(table.column, table.column.values = NULL,
  colors = NULL, mapping.type = "c", default.color = NULL,
  style.name = "default", network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`table.column`	Name of Cytoscape table column to map values from
`table.column.values`	List of values from Cytoscape table to be used in mapping
`colors`	(integer) values between 0 and 255; 0 is invisible
`mapping.type`	(char) continuous, discrete or passthrough (c,d,p); default is continuous
`default.color`	Hex color to set as default
`style.name`	Name of style; default is "default" style
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
setNodeBorderColorMapping('score', c(0,5), c('#FFFFFF','#FF7755'))
```

`setNodeBorderOpacityBypass`

Set Node Border Opacity Bypass

Description

Override the border opacity for particular nodes.

Usage

```
setNodeBorderOpacityBypass(node.names, new.values, network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`node.names`	List of node names
`new.values`	List of values to set, or single value
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

This method permanently overrides any default values or mappings defined for this visual property of the node or nodes specified. This method ultimately calls the generic function, setNodePropertyBypass, which can be used to set any visual property. To restore defaults and mappings, use clearNodePropertyBypass.

Value

None

See Also

setNodePropertyBypass, clearNodePropertyBypass

Examples

```
setNodeBorderOpacityBypass()
```

`setNodeBorderWidthBypass` *Set Node Border Width Bypass*

Description

Override the border width for particular nodes.

Usage

```
setNodeBorderWidthBypass(node.names, new.sizes, network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`node.names`	List of node names
`new.sizes`	List of size values, or single value
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

This method permanently overrides any default values or mappings defined for this visual property of the node or nodes specified. This method ultimately calls the generic function, setNodePropertyBypass, which can be used to set any visual property. To restore defaults and mappings, use clearNodePropertyBypass, see examples.

Value

None

See Also

setNodePropertyBypass, clearNodePropertyBypass

Examples

```
setNodeBorderWidthBypass('Node 1', 5)
setNodeBorderWidthBypass(c('Node 1','Node 2'), 5)
clearNodePropertyBypass(c('Node 1','Node 2'), 'NODE_BORDER_WIDTH')
```

`setNodeBorderWidthDefault`

Set Node Border Width Default

Description

Set the default node border width.

Usage

```
setNodeBorderWidthDefault(new.width, style.name = "default",
  base.url = .defaultBaseUrl)
```

Arguments

`new.width`	Numeric value for width
`style.name`	Name of style; default is "default" style
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
setNodeBorderWidthDefault(2)
```

`setNodeBorderWidthMapping`

Set Node Border Width Mapping

Description

Map table column values to widths to set the node border width.

Usage

```
setNodeBorderWidthMapping(table.column, table.column.values = NULL,
  widths = NULL, mapping.type = "c", default.width = NULL,
  style.name = "default", network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`table.column`	Name of Cytoscape table column to map values from
`table.column.values`	List of values from Cytoscape table to be used in mapping
`widths`	List of width values to map to table.column.values
`mapping.type`	(char) continuous, discrete or passthrough (c,d,p); default is continuous
`default.width`	Width value to set as default for all unmapped values
`style.name`	Name of style; default is "default" style
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
setNodeBorderWidthMapping('score', c(0,30), c(1,5))
```

`setNodeColorBypass` *Set Node Color Bypass*

Description

Set the bypass value for fill color for the specified node or nodes.

Usage

```
setNodeColorBypass(node.names, new.colors, network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`node.names`	List of node names
`new.colors`	List of hex colors, or single value
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

This method permanently overrides any default values or mappings defined for this visual property of the node or nodes specified. This method ultimately calls the generic function, setNodePropertyBypass, which can be used to set any visual property. To restore defaults and mappings, use clearNodePropertyBypass, see examples.

Value

None

See Also

setNodePropertyBypass, clearNodePropertyBypass

Examples

```
setNodeColorDirect ('node1', '#FF0088')
setNodeColorDirect (c('node1', 'node2'), c('#88FF88', '#FF0088'))
clearNodePropertyBypass(c('Node 1','Node 2'), 'NODE_FILL_COLOR')
```

`setNodeColorDefault` *Set Node Color Default*

Description

Set the default node color.

Usage

```
setNodeColorDefault(new.color, style.name = "default",
  base.url = .defaultBaseUrl)
```

Arguments

`new.color`	Color as hex code, e.g., #FD5903
`style.name`	Name of style; default is "default" style
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
setNodeColorDefault('#FD5903')
```

`setNodeColorMapping` *Set Node Color Mapping*

Description

Map table column values to colors to set the node fill color.

Usage

```
setNodeColorMapping(table.column, table.column.values = NULL,
  colors = NULL, mapping.type = "c", default.color = NULL,
  style.name = "default", network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`table.column`	Name of Cytoscape table column to map values from
`table.column.values`	List of values from Cytoscape table to be used in mapping
`colors`	List of hex colors to map to table.column.values
`mapping.type`	(char) continuous, discrete or passthrough (c,d,p); default is continuous
`default.color`	Hex color to set as default
`style.name`	Name of style; default is "default" style
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
setNodeColorMapping('score', c(-5,0,5), c('#5577FF','#FFFFFF','#FF7755'))
```

`setNodeComboOpacityMapping` *Set Node Combo Opacity Mapping*

Description

Sets opacity for node fill, border and label all together.

Usage

```
setNodeComboOpacityMapping(table.column, table.column.values = NULL,
  opacities = NULL, mapping.type = "c", default.opacity = NULL,
  style.name = "default", network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`table.column`	Name of Cytoscape table column to map values from
`table.column.values`	List of values from Cytoscape table to be used in mapping
`opacities`	(integer) values between 0 and 255; 0 is invisible
`mapping.type`	(char) continuous, discrete or passthrough (c,d,p); default is continuous
`default.opacity`	Opacity value to set as default for all unmapped values
`style.name`	Name of style; default is "default" style
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
setNodeComboOpacityMapping('score', c(-5,5), c(50,255))
```

---

setNodeFillOpacityBypass

Set Node Fill Opacity Bypass

Description

Override the fill opacity for particular nodes.

Usage

```
setNodeFillOpacityBypass(node.names, new.values, network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`node.names`	List of node names
`new.values`	List of values to set, or single value
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

This method permanently overrides any default values or mappings defined for this visual property of the node or nodes specified. This method ultimately calls the generic function, setNodePropertyBypass, which can be used to set any visual property. To restore defaults and mappings, use clearNodePropertyBypass, see examples.

Value

None

See Also

setNodePropertyBypass, clearNodePropertyBypass

Examples

```
setNodeFillOpacityBypass('Node 1', 100)
setNodeFillOpacityBypass(c('Node 1','Node 2'), 100)
clearNodePropertyBypass(c('Node 1','Node 2'), 'NODE_TRANSPARENCY')
```

`setNodeFontSizeBypass` *Set Node Font Size Bypass*

Description

Override the font size for particular nodes.

Usage

```
setNodeFontSizeBypass(node.names, new.sizes, network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`node.names`	List of node names
`new.sizes`	List of size values, or single value
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

This method permanently overrides any default values or mappings defined for this visual property of the node or nodes specified. This method ultimately calls the generic function, setNodePropertyBypass, which can be used to set any visual property. To restore defaults and mappings, use clearNodePropertyBypass, see examples.

Value

None

See Also

setNodePropertyBypass, clearNodePropertyBypass

Examples

```
setNodeFontSizeBypass('Node 1', 5)
setNodeFontSizeBypass(c('Node 1','Node 2'), 5)
clearNodePropertyBypass(c('Node 1','Node 2'), 'NODE_LABEL_FONT_SIZE')
```

`setNodeFontSizeDefault`

Set Node Font Size Default

Description

Set the default node font size.

Usage

```
setNodeFontSizeDefault(new.size, style.name = "default",
  base.url = .defaultBaseUrl)
```

Arguments

`new.size`	Numeric value for size
`style.name`	Name of style; default is "default" style
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
setNodeFontSizeDefault(12)
```

`setNodeHeightBypass` *Set Node Height Bypass*

Description

Override the height for particular nodes.

Usage

```
setNodeHeightBypass(node.names, new.heights, network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`node.names`	List of node names
`new.heights`	List of height values, or single value
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

This method permanently overrides any default values or mappings defined for this visual property of the node or nodes specified. This method ultimately calls the generic function, setNodePropertyBypass, which can be used to set any visual property. To restore defaults and mappings, use clearNodePropertyBypass, see examples.

Value

None

See Also

setNodePropertyBypass, clearNodePropertyBypass

Examples

```
setNodeHeightBypass('Node 1', 35)
setNodeHeightBypass(c('Node 1','Node 2'), 35)
clearNodePropertyBypass(c('Node 1','Node 2'), 'NODE_HEIGHT')
```

`setNodeLabelBypass` *Set Node Label Bypass*

Description

Override the label for particular nodes.

Usage

```
setNodeLabelBypass(node.names, new.labels, network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`node.names`	List of node names
`new.labels`	List of labels, or single value
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

This method permanently overrides any default values or mappings defined for this visual property of the node or nodes specified. This method ultimately calls the generic function, setNodePropertyBypass, which can be used to set any visual property. To restore defaults and mappings, use clearNodePropertyBypass, see examples.

Value

None

See Also

setNodePropertyBypass, clearNodePropertyBypass

Examples

```
setNodeLabelBypass('Node 1', 'Custom Label')
setNodeLabelBypass(c('Node 1','Node 2'), 'Custom Label')
clearNodePropertyBypass(c('Node 1','Node 2'), 'NODE_LABEL')
```

`setNodeLabelColorBypass` *Set Node Label Color Bypass*

Description

Override the label color for particular nodes.

Usage

```
setNodeLabelColorBypass(node.names, new.colors, network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`node.names`	List of node names
`new.colors`	List of hex colors, or single value
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

This method permanently overrides any default values or mappings defined for this visual property of the node or nodes specified. This method ultimately calls the generic function, setNodePropertyBypass, which can be used to set any visual property. To restore defaults and mappings, use clearNodePropertyBypass, see examples.

Value

None

See Also

setNodePropertyBypass, clearNodePropertyBypass

Examples

```
setNodeLabelColorBypass('Node 1', '#FF55AA')
setNodeLabelColorBypass(c('Node 1','Node 2'), '#FF55AA')
clearNodePropertyBypass(c('Node 1','Node 2'), 'NODE_LABEL_COLOR')
```

`setNodeLabelColorDefault` *Set Node Label Color Default*

Description

Set the default node label color.

Usage

```
setNodeLabelColorDefault(new.color, style.name = "default",
  base.url = .defaultBaseUrl)
```

Arguments

`new.color`	Color as hex code, e.g., #FD5903
`style.name`	Name of style; default is "default" style
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
setNodeLabelColorDefault('#FD5903')
```

`setNodeLabelMapping` *Set Node Label Mapping*

Description

Pass the values from a table column to display as node labels.

Usage

```
setNodeLabelMapping(table.column, style.name = "default",
  network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`table.column`	Name of Cytoscape table column to map values from
`style.name`	Name of style; default is "default" style
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
setNodeLabelMapping('name')
```

`setNodeLabelOpacityBypass` *Set Node Label Opacity Bypass*

Description

Override the label opacity for particular nodes.

Usage

```
setNodeLabelOpacityBypass(node.names, new.values, network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`node.names`	List of node names
`new.values`	List of values to set, or single value
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

This method permanently overrides any default values or mappings defined for this visual property of the node or nodes specified. This method ultimately calls the generic function, setNodePropertyBypass, which can be used to set any visual property. To restore defaults and mappings, use clearNodePropertyBypass.

Value

None

See Also

setNodePropertyBypass, clearNodePropertyBypass

Examples

```
setNodeLabelOpacityBypass()
```

`setNodeOpacityBypass` *Set Node Opacity Bypass*

Description

Set the bypass value for node fill, label and border opacity for the specified node or nodes.

Usage

```
setNodeOpacityBypass(node.names, new.values, network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`node.names`	List of node names
`new.values`	List of values to set, or single value
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

This method permanently overrides any default values or mappings defined for this visual property of the node or nodes specified. This method ultimately calls the generic function, setNodePropertyBypass, which can be used to set any visual property. To restore defaults and mappings, use clearNodeOpacityBypass, see examples.

Value

None

See Also

setNodePropertyBypass, clearNodeOpacityBypass

Examples

```
setNodeOpacityBypass('Node 1', 100)
setNodeOpacityBypass(c('Node 1','Node 2'), 100)
clearNodeOpacityBypass(c('Node 1','Node 2'))
```

`setNodePosition` *DEFUNCT: setNodePosition*

Description

This function is defunct and will be removed in the next release. Use the replacement function instead: setNodePropertyBypass

Usage

```
setNodePositiondefunct
```

Value

None

`setNodePropertyBypass` *Set Node Property Bypass*

Description

Set bypass values for any node property of the specified nodes, overriding default values and mappings defined by any visual style.

Usage

```
setNodePropertyBypass(node.names, new.values, visual.property,
  bypass = TRUE, network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`node.names`	List of node names
`new.values`	List of values to set, or single value
`visual.property`	Name of a visual property. See getVisualPropertyNames.
`bypass`	Whether to set permanent bypass value. Default is `TRUE`.
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

This method permanently overrides any default values or mappings defined for the visual properties of the node or nodes specified. To restore defaults and mappings, use clearNodePropertyBypass.

Value

None

See Also

clearNodePropertyBypass

Examples

```
setNodePropertyBypass()
```

`setNodeSelectionColorDefault`

Set Node Selection Color Default

Description

Set the default selection node color.

Usage

```
setNodeSelectionColorDefault(new.color, style.name = "default",
  base.url = .defaultBaseUrl)
```

Arguments

`new.color`	Color as hex code, e.g., #FD5903
`style.name`	Name of style; default is "default" style
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
setNodeSelectionColorDefault('#FD5903')
```

`setNodeShapeBypass` *Set Node Shape Bypass*

Description

Override the shape for particular nodes.

Usage

```
setNodeShapeBypass(node.names, new.shapes, network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`node.names`	List of node names
`new.shapes`	List of shapes, or single value. See getNodeShapes.
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

This method permanently overrides any default values or mappings defined for this visual property of the node or nodes specified. This method ultimately calls the generic function, setNodePropertyBypass, which can be used to set any visual property. To restore defaults and mappings, use clearNodePropertyBypass, see examples.

Value

None

See Also

setNodePropertyBypass, clearNodePropertyBypass

Examples

```
setNodeShapeBypass('Node 1', 'ROUND_RECTANGLE')
setNodeShapeBypass(c('Node 1','Node 2'), 'ROUND_RECTANGLE')
clearNodePropertyBypass(c('Node 1','Node 2'), 'NODE_SHAPE')
```

`setNodeShapeDefault` *Set Node Shape Default*

Description

Set the default node shape.

Usage

```
setNodeShapeDefault(new.shape, style.name = "default",
  base.url = .defaultBaseUrl)
```

Arguments

`new.shape`	Name of shape, e.g., ELLIPSE, RECTANGLE, etc (see getNodeShapes)
`style.name`	Name of style; default is "default" style
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
setNodeShapeDefault('ELLIPSE')
```

`setNodeShapeMapping` *Set Node Shape Mapping*

Description

Map table column values to shapes to set the node shape.

Usage

```
setNodeShapeMapping(table.column, table.column.values, shapes,
  default.shape = NULL, style.name = "default", network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`table.column`	Name of Cytoscape table column to map values from
`table.column.values`	List of values from Cytoscape table to be used in mapping
`shapes`	List of shapes to map to table.column.values. See getNodeShapes
`default.shape`	Shape to set as default. See getNodeShapes
`style.name`	Name of style; default is "default" style
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
setNodeShapeMapping('type',c('protein','dna'),c('ELLIPSE','RECTANGLE'))
```

`setNodeSizeBypass` *Set Node Size Bypass*

Description

Sets the bypass value of node size for one or more nodes. Only applicable if node dimensions are locked. See `lockNodeDimensions`.

Usage

```
setNodeSizeBypass(node.names, new.sizes, network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`node.names`	List of node names
`new.sizes`	List of size values, or single value
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

This method permanently overrides any default values or mappings defined for this visual property of the node or nodes specified. This method ultimately calls the generic function, setNodePropertyBypass, which can be used to set any visual property. To restore defaults and mappings, use clearNodePropertyBypass, see examples.

Value

None

See Also

setNodePropertyBypass, clearNodePropertyBypass

Examples

```
setNodeSizeBypass('Node 1', 35)
setNodeSizeBypass(c('Node 1','Node 2'), 35)
clearNodePropertyBypass(c('Node 1','Node 2'), 'NODE_SIZE')
```

`setNodeSizeDefault` *Set Node Size Default*

Description

Set the default node size.

Usage

```
setNodeSizeDefault(new.size, style.name = "default",
  base.url = .defaultBaseUrl)
```

Arguments

`new.size`	Numeric value for size
`style.name`	Name of style; default is "default" style
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
setNodeSizeDefault(35)
```

`setNodeSizeMapping` *Set Node Size Mapping*

Description

Map table column values to sizes to set the node size.

Usage

```
setNodeSizeMapping(table.column, table.column.values = NULL,
  sizes = NULL, mapping.type = "c", default.size = NULL,
  style.name = "default", network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`table.column`	Name of Cytoscape table column to map values from
`table.column.values`	List of values from Cytoscape table to be used in mapping
`sizes`	List of size values to mape to table.column.values
`mapping.type`	(char) continuous, discrete or passthrough (c,d,p); default is continuous
`default.size`	Size value to set as default
`style.name`	Name of style; default is "default" style
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
setNodeSizeMapping('score', c(0,30), c(35,55))
```

`setNodeTooltipMapping` *Set Node Tooltip Mapping*

Description

Pass the values from a table column to display as node tooltips.

Usage

```
setNodeTooltipMapping(table.column, style.name = "default",
  network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`table.column`	Name of Cytoscape table column to map values from
`style.name`	Name of style; default is "default" style
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
setNodeTooltipMapping('description')
```

`setNodeWidthBypass` *Set Node Width Bypass*

Description

Override the width for particular nodes.

Usage

```
setNodeWidthBypass(node.names, new.widths, network = NULL,
  base.url = .defaultBaseUrl)
```

Arguments

`node.names`	List of node names
`new.widths`	List of width values, or single value
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

This method permanently overrides any default values or mappings defined for this visual property of the node or nodes specified. This method ultimately calls the generic function, setNodePropertyBypass, which can be used to set any visual property. To restore defaults and mappings, use clearNodePropertyBypass, see examples.

Value

None

See Also

setNodePropertyBypass, clearNodePropertyBypass

Examples

```
setNodeWidthBypass('Node 1', 35)
setNodeWidthBypass(c('Node 1','Node 2'), 35)
clearNodePropertyBypass(c('Node 1','Node 2'), 'NODE_WIDTH')
```

`setStyleDependencies` *Set Style Dependencies*

Description

Sets the values of dependencies in a style, overriding any prior settings.

Usage

```
setStyleDependencies(style.name = "default", dependencies,
  base.url = .defaultBaseUrl)
```

Arguments

`style.name`	Name of style; default is "default" style
`dependencies`	A `list` of style dependencies, see Available Dependencies below. Note: each dependency is set by a boolean, TRUE or FALSE (T or F)
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

server response

Available Dependencies

arrowColorMatchesEdge nodeCustomGraphicsSizeSync nodeSizeLocked

Examples

```
setStyleDependencies("myStyle",list(nodeSizeLocked=TRUE))
```

`setTooltipDismissDelay`

DEFUNCT: setTooltipDismissDelay

Description

This function is defunct and will be removed in the next release.

Usage

```
setTooltipDismissDelaydefunct
```

Value

None

`setTooltipInitialDelay`

DEFUNCT: setTooltipInitialDelay

Description

This function is defunct and will be removed in the next release.

Usage

```
setTooltipInitialDelaydefunct
```

Value

None

`setVisualPropertyDefault`

Set Visual Property Default

Description

Set the default value for a visual property.

Usage

```
setVisualPropertyDefault(style.string, style.name = "default",
  base.url = .defaultBaseUrl)
```

Arguments

`style.string`	A named list including "visualProperty" and "value"
`style.name`	Name of style; default is "default" style
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
setVisualPropertyDefault(list(visualProperty = "NODE_SIZE", value = 35))
```

`setVisualStyle` *Set Visual Style*

Description

Apply a visual style to a network.

Usage

```
setVisualStyle(style.name, network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`style.name`	Name of a visual style
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
setVisualStyle()
```

`setWindowSize` *DEFUNCT: setWindowSize*

Description

This function is defunct and will be removed in the next release.

Usage

```
setWindowSizedefunct
```

Value

None

`setZoom` *DEPRECATED: setZoom*

Description

This function is only provided for compatibility with older versions of RCy3 and will be defunct and removed in the next releases. Use the replacement function instead: setNetworkZoomBypass

Usage

```
setZoom_deprecated
```

Value

None

`sfn` *DEPRECATED: sfn*

Description

This function is only provided for compatibility with older versions of RCy3 and will be defunct and removed in the next releases. Use the replacement function instead: selectFirstNeighbors

Usage

```
sfndeprecated
```

Value

List of node SUIDs

`showGraphicsDetails` *DEPRECATED: showGraphicsDetails*

Description

This function is only provided for compatibility with older versions of RCy3 and will be defunct and removed in the next releases. Use the replacement function instead: toggleGraphicsDetails

Usage

```
showGraphicsDetails_deprecated
```

Value

None

`syncNodeCustomGraphicsSize` *Sync Node Custom Graphics Size*

Description

Set a boolean value to have the size of custom graphics match that of the node.

Usage

```
syncNodeCustomGraphicsSize(new.state, style.name = "default",
  base.url = .defaultBaseUrl)
```

Arguments

`new.state`	(Boolean) Whether to sync node custom graphics size
`style.name`	Name of style; default is "default" style
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
syncNodeCustomGraphicsSize(TRUE)
```

`toggleGraphicsDetails` *Toggle Graphics Details*

Description

Regardless of the current zoom level and network size, show (or hide) graphics details, e.g., node labels.

Usage

```
toggleGraphicsDetails(base.url = .defaultBaseUrl)
```

Arguments

`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

Displaying graphics details on a very large network will affect pan and zoom performance, depending on your available RAM. See cytoscapeMemoryStatus.

Value

None

Examples

```
showGraphicsDetails(TRUE)
```

`unhideAll` *Unhide All*

Description

Unhide all previously hidden nodes and edges, by clearing the Visible property bypass value.

Usage

```
unhideAll(network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

This method permanently overrides any default values or mappings defined for this visual property of the edge or edges specified. This method ultimately calls the generic function, clearEdgePropertyBypass, which can be used to clear any visual property.

Value

None

See Also

clearEdgePropertyBypass, unhideNodes unhideEdges

Examples

```
unhideAll()
```

`unhideEdges` *Unhide Edges*

Description

Unhide specified edges that were previously hidden, by clearing the Visible property bypass value.

Usage

```
unhideEdges(edge.names, network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`edge.names`	List of edge names
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

This method permanently overrides any default values or mappings defined for this visual property of the edge or edges specified. This method ultimately calls the generic function, clearEdgePropertyBypass, which can be used to clear any visual property.

Value

None

See Also

clearEdgePropertyBypass, unhideAll

Examples

```
unhideEdges()
```

`unhideNodes` *Unhide Nodes*

Description

Unhide specified nodes that were previously hidden, by clearing the Visible property bypass value.

Usage

```
unhideNodes(node.names, network = NULL, base.url = .defaultBaseUrl)
```

Arguments

`node.names`	List of node names
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

This method permanently overrides any default values or mappings defined for this visual property of the node or nodes specified. This method ultimately calls the generic function, clearNodePropertyBypass, which can be used to clear any visual property.

Value

None

See Also

clearNodePropertyBypass, unhideAll

Examples

```
unhideNodes()
```

`uninstallApp` *Uninstall App*

Description

Uninstall an app from Cytoscape.

Usage

```
uninstallApp(app, base.url = .defaultBaseUrl)
```

Arguments

`app`	Name of app
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
uninstallApp()
```

`updateApp` *Update App*

Description

Update a Cytoscape app to the latest available version.

Usage

```
updateApp(app, base.url = .defaultBaseUrl)
```

Arguments

`app`	Name of app
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

None

Examples

```
updateApp()
```

---

updateNetworkInNDEx *Update Network In NDEx*

Description

Update an existing network in NDEx, given a previously assoicaiated Cytoscape network, e.g., previously exported to NDEx or imported from NDEx.

Usage

```
updateNetworkInNDEx(username, password, isPublic, network = NULL,
  metadata = NULL, base.url = .cyndexBaseUrl)
```

Arguments

`username`	NDEx account username
`password`	NDEx account password
`isPublic`	(Boolean) Whether to make the network publicly accessible at NDEx.
`network`	(optional) Name or SUID of the network. Default is the "current" network active in Cytoscape.
`metadata`	(optional) A list of structured information describing the network
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

NDEx identifier (`externalId`) for the updated submission

Examples

```
updateNetworkInNDEx("user", "pass", TRUE)
```

`updateStyleDefaults` *Updates the default values of visual properties in a style*

Description

Updates visual property defaults, overriding any prior settings. See mapVisualProperty for the list of visual properties.

Usage

```
updateStyleDefaults(style.name, defaults, base.url = .defaultBaseUrl)
```

Arguments

`style.name`	(char) name for style
`defaults`	(list) a list of visual property default settings
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Value

server response

See Also

mapVisualProperty

Examples

```
updateStyleDefaults('myStyle',list('node fill color'='#0000FF','node size'=50))
```

`updateStyleMapping` *Updates a visual property mapping in a style*

Description

Updates the visual property mapping, overriding any prior mapping. Creates a visual property mapping if it doesn't already exist in the style.

Usage

```
updateStyleMapping(style.name, mapping, base.url = .defaultBaseUrl)
```

Arguments

`style.name`	(char) name for style
`mapping`	a single visual property mapping, see mapVisualProperty
`base.url`	(optional) Ignore unless you need to specify a custom domain, port or version to connect to the CyREST API. Default is http://localhost:1234 and the latest version of the CyREST API supported by this version of RCy3.

Details

Requires visual property mappings to be previously created, see mapVisualProperty.

Value

server response

See Also

mapVisualProperty

Examples

```
updateStyleMapping('myStyle',mapVisualProperty('node label','name','p'))
```

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