

Package ‘InCHlibUtils’

April 11, 2014

Title Utilities to use the JavaScript project InCHlib

Description A package to help the use of InCHlig project

Version 0.1

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Depends R (>= 3.0.2)

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LazyData true

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getCount	<i>Get the number of leafs in node i</i>
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Description

Get the number of leafs in node i

Usage

getCount(i, cluster)

Arguments

i	node index
cluster	a hclust object

Examples

```
#hc <- hclust(dist(USArrests), "ave")
#getCount(-15, hc)    # 1
#getCount(40, hc)     # 9
```

getDendro	<i>Get a dendrogram using the InCHlib format</i>
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Description

Get a dendrogram using the InCHlib format

Usage

```
getDendro(cluster, leafNames, values = NA)
```

Arguments

cluster	a hclust object
leafNames	a character list containing the names of each leaf
values	a data.frame containing the data values (if row dendrogram)

Examples

```
#hc <- hclust(dist(USArrests), "ave")
#hc.col <- hclust(dist(t(USArrests)), "ave")
#getDendro(hc, rownames(USArrests), USArrests)
#getDendro(hc.col, colnames(USArrests))
```

getMetadata	<i>Get a metadata list using the InCHlib format</i>
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Description

Get a metadata list using the InCHlib format

Usage

```
getMetadata(meta)
```

Arguments

meta	a data.frame containing the metadata
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getParent	<i>Get the parent node of i</i>
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Description

Get the parent node of i

Usage

```
getParent(i, cluster)
```

Arguments

i	node index
cluster	a hclust object

Examples

```
#hc <- hclust(dist(USArrests), "ave")  
#getParent(-15, hc) # 1
```

InCHlib	<i>Create an InCHlib heatmap</i>
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Description

Create an InCHlib heatmap

Usage

```
InCHlib(hclustRow, hclustCol, valDf, metaDf = NA)
```

Arguments

hclustRow	a hclust object
hclustCol	a hclust object
valDf	a data.frame containing the data values
metaDf	a data.frame containing the metadata

Examples

```
hc <- hclust(dist(USArrests), "ave")  
hc.col <- hclust(dist(t(USArrests)), "ave")  
inch <- InCHlib(hc, hc.col, USArrests)  
library(rjson)  
writeLines(toJSON(inch), "heatmap.json")
```

InChLibUtils

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Description

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