Package 'Toolsets'

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Description Toolsets	
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example.function description of the example function	

Description

description of the example function

Usage

```
example.function(param1 = NULL)
```

2 plot.dotplot.SC3

Arguments

param1 param1

Value

the return object

Examples

```
example.function()
```

plot.dotplot.SC3

Draw dotplot for human SC3 object

Description

Draw dotplot for human SC3 object

Usage

```
## S3 method for class 'dotplot.SC3'
plot(sce, genes.plot, use = "cellGroup2",
    xAngle = 60, cols.use = c("lightgrey", "blue"), col.min = -2.5,
    col.max = 2.5, dot.min = 0, dot.scale = 6, group.order = c(),
    scale.by = "radius", scale.min = NA, scale.max = NA, group.by,
    title = "", plot.legend = FALSE, do.return = FALSE,
    x.lab.rot = FALSE)
```

Arguments

sce SC3 object genes.plot genes

use group used in SC3 object

xAngle angle of x title
cols.use colors used
col.min col.max
dot.min dot.min

dot.scale whether to scale or not

group.order group.order
scale.by scale.by
scale.min scale.min
scale.max group.by group.by
title title

plot.legend plot legend or not do.return return object or not x.lab.rot rotate x title or not plot.GO.barplot 3

Value

```
a ggplot dotplot
```

Examples

plot.GO.barplot

Draw barplot for GO dataframe

Description

Draw barplot for GO dataframe

Usage

```
## S3 method for class 'G0.barplot'
plot(barplot_df)
```

Arguments

barplot_df

GO dataframe from clusterProfiler

Value

a ggplot barplot object

Examples

```
options(repr.plot.width=4, repr.plot.height=9)
plot.GO.barplot(df)
```

plot.violin

Draw violin plot

Description

Draw violin plot

Usage

```
## S3 method for class 'violin'
plot(exprData, cellAnno, genes, use, direction = "h",
    showGroup = T, groupOrder = NULL)
```

Arguments

exprData the expression matrix to be used

cellAnno the annotation of the cells genes wanted to show

use the group selected in the cellAnno

direction direction of the violin plot

showGroup whether to show the group names

groupOrder the order of the group

Value

a ggplot violin object

Examples

```
toC_get_genes_of_GO_by_keyWords
```

Get the genes of interested GO terms by some key words

Description

Get the genes of interested GO terms by some key words

Usage

```
toC_get_genes_of_GO_by_keyWords(organism = "hs", keyWords = "axon",
  returnAll = F)
```

Arguments

organism organism (hs and mm)

keyWords (for grey function, e.g. cell cyclelDNA replication)

returnAll if return all the GO terms

Value

a list with the GO terms and genes

Examples

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