# Package 'ECharts2Shiny'

October 12, 2022

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## Description

This function helps deliver the charts plotted by ECharts into Shiny applications.

## Usage

```
deliverChart(div_id, running_in_shiny = TRUE)
```

## **Arguments**

div\_id The id of the div which you need to specify first with tags\$div() function of Shiny.

running\_in\_shiny

If we're actually running this in a Shiny library, or we're simply doing testing. Default valus is "TRUE". If "FALSE", the function will print what it's supposed to evaluate.

## **Details**

This will help us deliver the interactive charts. At the back-end, everything is donw by Javascript.

## Note

Users need to state the division for the chart first, with tags\$div() function of Shiny packages. Please note that the division id must keep unique (duplicated division id will cause error).

## Author(s)

Xiaodong DENG

(ECharts library is authored by Baidu team)

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## **Examples**

```
if (interactive()) {
 library(shiny)
 library(ECharts2Shiny)
 # Prepare sample data for plotting -----
 dat \leftarrow data.frame(c(1, 2, 3))
 names(dat) <- c("Type-A")</pre>
 row.names(dat) <- c("Time-1", "Time-2", "Time-3")</pre>
 # Server function ------
 server <- function(input, output) {</pre>
   # Call functions from ECharts2Shiny to render charts
   renderBarChart(div_id = "test", grid_left = '1%', direction = "vertical", data = dat)
 # UI layout -----
 ui <- fluidPage(</pre>
   \mbox{\#} We MUST load the ECharts javascript library in advance
   loadEChartsLibrary(),
   tags$div(id="test", style="width:50%;height:400px;"),
   deliverChart(div_id = "test")
 # Run the application ------
 shinyApp(ui = ui, server = server)
```

loadEChartsLibrary

Load the Javascript Library File of ECharts to the Shiny Application

## **Description**

This function will help load the Javascript library file of ECharts to the current shiny project. This is mandatory before we can plot with ECharts in Shiny applications.

## Usage

```
loadEChartsLibrary()
```

#### Author(s)

```
Xiaodong DENG
```

(ECharts library is authored by Baidu team)

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## **Examples**

```
if (interactive()) {
 library(shiny)
 library(ECharts2Shiny)
 # Prepare sample data for plotting -----
 dat \leftarrow data.frame(c(1, 2, 3))
 names(dat) <- c("Type-A")</pre>
 row.names(dat) <- c("Time-1", "Time-2", "Time-3")</pre>
 # Server function ------
 server <- function(input, output) {</pre>
   # Call functions from ECharts2Shiny to render charts
   renderBarChart(div_id = "test", grid_left = '1%', direction = "vertical",
                data = dat)
 }
 # UI layout -----
 ui <- fluidPage(</pre>
   # We MUST load the ECharts javascript library in advance
   loadEChartsLibrary(),
   tags$div(id="test", style="width:50%;height:400px;"),
   deliverChart(div_id = "test")
 )
 # Run the application -----
 shinyApp(ui = ui, server = server)
}
```

loadEChartsTheme

Load the Theme File of ECharts to the Shiny Application

## **Description**

This function will help load the theme file of ECharts into the current Shiny application. This is not mandatory for the basic use of this package. But if users want to try different theme, they need to load the corresponding theme file.

## Usage

loadEChartsTheme(theme)

#### **Arguments**

theme

The theme file users want to use. The valid values include "infographic", "macarons", "roma", "shine", and "vintage".

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## **Details**

Users can simply use the default theme. But if they want to try different theme of the charts, they need to load the corresponding JS file. The theme files are not loaded automatically so that we don't have to include unnecessary files into the Shiny applications (you only include what you need).

## Author(s)

```
Xiaodong DENG
(ECharts library is authored by Baidu team)
```

```
if (interactive()) {
 library(shiny)
 library(ECharts2Shiny)
 # Prepare sample data for plotting -----
 dat \leftarrow data.frame(c(1, 2, 3))
 names(dat) <- c("Type-A")</pre>
 row.names(dat) <- c("Time-1", "Time-2", "Time-3")</pre>
 # Server function -----
 server <- function(input, output) {</pre>
   # Call functions from ECharts2Shiny to render charts
   renderBarChart(div_id = "test", grid_left = '1%', direction = "vertical",
                data = dat, theme = "vintage")
 }
 # UI layout -----
 ui <- fluidPage(</pre>
   # We MUST load the ECharts javascript library in advance
   loadEChartsLibrary(),
   loadEChartsTheme("vintage"),
   tags$div(id="test", style="width:50%;height:400px;"),
   deliverChart(div_id = "test")
 # Run the application ------
 shinyApp(ui = ui, server = server)
```

6 renderBarChart

## **Description**

renderBarChart() function helps render the bar chart into Shiny application.

## Usage

```
renderBarChart(div_id, data, theme,
    stack_plot = FALSE, direction = "horizontal",
    grid_left,grid_right, grid_top, grid_bottom,
    show.legend = TRUE, show.tools = TRUE,
    font.size.legend = 12,
    font.size.axis.x = 12, font.size.axis.y = 12,
    axis.x.name = NULL, axis.y.name = NULL,
    rotate.axis.x = 0, rotate.axis.y = 0,
    bar.max.width = NULL,
    animation = TRUE,
    hyperlinks = NULL,
    running_in_shiny)
```

## **Arguments**

div_id	The division id users specified for this chart. The division will be specified in ui.R.					
data	The data used for the plotting. It should be a data.frame. Each column of the data.frame is one category, and each row is one observation (like one timepoint).					
theme	Which ECharts theme to use. Valid values include "default", "roma", "infographic", "macarons", "vintage", "shine", "caravan", "dark-digerati", "jazz", and "london".					
stack_plot	Whether do stack bar chart. The default value is FALSE.					
direction	The direction of the bar chart. Valid values include "vertical" and "horizontal". Default value is "horizontal".					
grid_left	Distance between grid component and the left side of the container. Default value is " $3\%$ ".					
grid_right	Distance between grid component and the right side of the container. Default value is " $4\%$ ".					
grid_top	Distance between grid component and the top side of the container. Default value is " $16\%$ ".					
grid_bottom	Distance between grid component and the bottom side of the container. Default value is "3%".					
show.legend	If display the legends. The default value is TRUE.					
show.tools	If display the tool bar. The default value is TRUE.					
font.size.legend						
	The font size of legend bar. The default value is 12.					
<pre>font.size.axis.x</pre>						
	The feat size of the labels on Veria. The defeat tender is 12					

The font size of the labels on X axis. The default value is 12.

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font.size.axis.y

The font size of the labels on Y axis. The default value is 12.

axis.x.name The name of X axis. The default value is NULL.

axis.y.name The name of Y axis. The default value is NULL.

rotate.axis.x The rotation degree of labels on X axis. The default value is 0.

rotate.axis.y The rotation degree of labels on Y axis. The default value is 0.

bar.max.width The maximum width of the bar. The default value is NULL, in which case the

bar width and maximum width will be automatically adjusted.

Users can also assign a numeric value to it, to customize the maximum bar width. If the width is too big or invalid value (like a character string), it will be

automatically adjusted too.

animation Whether display the chart with animation. The default value is TRUE.

hyperlinks Vector. Users can link each element in the chart to a hyperlink (URL like

http://\*\*\*.com). Please note the length of the "hyperlinks" vector should be

the same to the number of rows in the data given.

Note that if hyperlinks are available, the fonts in the pop-up window will be in

skyblue color and italic style.

running\_in\_shiny

If we're actually running this in a Shiny library, or we're simply doing testing. Default valus is "TRUE". If "FALSE", the function will print what it's supposed to evaluate.

#### Note

Users need to state the division for the chart first, with tags\$div() function of Shiny packages. Please note that the division id must keep unique (duplicated division id will cause error).

## Author(s)

Xiaodong DENG

(ECharts library is authored by Baidu team)

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renderGauge

Render the Gauge Chart Plotted by ECharts into Shiny Application

## **Description**

renderGauge() function helps render the gauge chart into Shiny application.

## Usage

## Arguments

div\_id The division id users specified for this chart. The division will be specified in

ui.R.

theme Which ECharts theme to use. Valid values include "default", "roma", "info-

graphic", "macarons", "vintage", "shine", "caravan", "dark-digerati", "jazz", and

"london".

gauge\_name The title to show on the gauge. It can not be ignored.

rate As the gauge helps show some kind of rate, users need to give this rate value. It

must be numerical or integer values.

show. tools If display the tool bar. The default value is TRUE.

animation Whether display the chart with animation. The default value is TRUE.

running\_in\_shiny

If we're actually running this in a Shiny library, or we're simply doing testing. Default valus is "TRUE". If "FALSE", the function will print what it's supposed to evaluate.

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## Note

Users need to state the division for the chart first, with tags\$div() function of Shiny packages. Please note that the division id must keep unique (duplicated division id will cause error).

## Author(s)

```
Xiaodong DENG
(ECharts library is authored by Baidu team)
```

## **Examples**

```
if (interactive()) {
 library(shiny)
 library(ECharts2Shiny)
 # Server function ------
 server <- function(input, output) {</pre>
   # Call functions from ECharts2Shiny to render charts
   renderGauge(div_id = "test",rate = 99, gauge_name = "Finish Rate")
 }
 # UI layout -----
 ui <- fluidPage(</pre>
   # We MUST load the ECharts javascript library in advance
   loadEChartsLibrary(),
   tags$div(id="test", style="width:50%;height:400px;"),
   deliverChart(div_id = "test")
 # Run the application ------
 shinyApp(ui = ui, server = server)
}
```

renderHeatMap

Render Heat Map Plotted by ECharts into Shiny Applications

## **Description**

renderHeatMap() function helps render heat map charts into Shiny applications.

## Usage

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## **Arguments**

div_id	The division id users specified for this chart. The division will be specified in ui.R.						
data	The data input must be a matrix containing numeric or integer values. Users can choose to have or not have row names or columns names.						
	From version 2.10, the data input (matrix) must be with row names and column names.						
theme	Which ECharts theme to use. Valid values include "default", "roma", "infographic", "macarons", "vintage", "shine", "caravan", "dark-digerati", "jazz", and "london".						
show.tools	If display the tool bar. The default value is TRUE.						
grid_left	Distance between grid component and the left side of the container. Default value is "3%".						
grid_right	Distance between grid component and the right side of the container. Default value is "4%".						
grid_top	Distance between grid component and the top side of the container. Default value is "16%".						
grid_bottom	Distance between grid component and the bottom side of the container. Default value is "3%".						
running_in_shiny							
	If we're actually running this in a Shiny library, or we're simply doing testing. Default valus is "TRUE". If "FALSE", the function will print what it's supposed						

Default valus is "TRUE". If "FALSE", the function will print what it's supposed to evaluate.

## Note

Users need to state the division for the chart first, with tags\$div() function of Shiny packages. Please note that the division id must keep unique (duplicated division id will cause error).

## Author(s)

```
Xiaodong DENG
(ECharts library is authored by Baidu team)
```

## References

https://github.com/ecomfe/echarts-wordcloud

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```
server <- function(input, output) {</pre>
   dat <- volcano
   row.names(dat) <- 1:dim(dat)[1]</pre>
   colnames(dat) <- 1:dim(dat)[2]</pre>
   renderHeatMap(div_id = "test",
                data = dat)
 }
 # UI layout -----
 ui <- fluidPage(</pre>
   # We MUST load the ECharts javascript library in advance
   loadEChartsLibrary(),
   tags$div(id="test", style="width:50%;height:400px;"),
   deliverChart(div_id = "test")
 )
 # Run the application -----
 shinyApp(ui = ui, server = server)
}
```

renderLineChart

Render the Line Chart Plotted by ECharts into Shiny Application

## **Description**

renderLineChart() function helps render the line chart into Shiny application.

## Usage

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Arg	um	ents

div\_id The division id users specified for this chart. The division will be specified in

ui.R.

data The data used for the plotting. It should be a data frame. Each column of the

data.frame is one category, and each row is one observation (like one timepoint).

theme Which ECharts theme to use. Valid values include "default", "roma", "info-

graphic", "macarons", "vintage", "shine", "caravan", "dark-digerati", "jazz", and

"london".

line.width This is to help set the width of the lines.

The value should be either numeric or integer. The default value is 2.

Its length should be either one or the same as the number of categories in the

data (the number of columns in the data).

line.type The type of the lines.

The value can be "solid", "dashed", or "dotted". The default value is "solid".

Its length should be either one or the same as the number of categories in the

data (the number of columns in the data).

point.size This argument helps set the size of points in the scatter plots.

The value should be either numeric or integer. The default value is 5.

Its length should be either one or the same as the number of categories in the

data (the number of columns in the data).

point.type The shape of the points in scatter plots.

Valid values include 'emptyCircle', 'circle', 'rect', 'roundRect', 'triangle', 'dia-

mond', 'pin', 'arrow'. The default value is 'emptyCircle'.

Its length should be either one or the same as the number of categories in the

data (the number of columns in the data).

stack\_plot Whether do stack line chart. The default value is FALSE.

step This argument helps plot step line charts. The default value is "null", i.e., non-

step line chart.

If users want step line chart, they can choose "start", "middle", or "end" to de-

termine the turning point positions in the step line charts.

show.legend If display the legends. The default value is TRUE.

show. tools If display the tool bar. The default value is TRUE.

font.size.legend

The font size of legend bar. The default value is 12.

font.size.axis.x

The font size of the labels on X axis. The default value is 12.

font.size.axis.y

The font size of the labels on Y axis. The default value is 12.

axis.x.name The name of X axis. The default value is NULL.

axis.y.name The name of Y axis. The default value is NULL.

rotate.axis.x The rotation degree of labels on X axis. The default value is 0.

rotate.axis.y The rotation degree of labels on Y axis. The default value is 0.

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show.slider.axis.x

Whether display slider on X axis. The default value is FALSE.

show.slider.axis.y

Whether display slider on Y axis. The default value is FALSE.

animation Whether display the chart with animation. The default value is TRUE.

grid\_left Distance between grid component and the left side of the container. Default

value is "3%".

grid\_right Distance between grid component and the right side of the container. Default

value is "4%".

grid\_top Distance between grid component and the top side of the container. Default

value is "16%".

grid\_bottom Distance between grid component and the bottom side of the container. Default

value is "3%".

running\_in\_shiny

If we're actually running this in a Shiny library, or we're simply doing testing. Default valus is "TRUE". If "FALSE", the function will print what it's supposed to evaluate.

#### Note

Users need to state the division for the chart first, with tags\$div() function of Shiny packages. Please note that the division id must keep unique (duplicated division id will cause error).

## Author(s)

Xiaodong DENG

(ECharts library is authored by Baidu team)

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renderPieChart

Render the Pie Chart Plotted by ECharts into Shiny Application

## Description

renderPieChart() function helps render the pie chart into Shiny application.

## Usage

## **Arguments**

div_id	The division id users specified for this chart. The division will be specified in ui.R.
data	The data used for the plotting. It should be either a vector or a data.frame.
	If it's a vector, it should be made up of all the elements you want to count and plot, like c("a", "a", "b", "a", "b", "c").
	If it's a data.frame, the data must be made up of only two columns, "name" and "value". The "value" column must be numeric or integer.
theme	Which ECharts theme to use. Valid values include "default", "roma", "infographic", "macarons", "vintage", "shine", "caravan", "dark-digerati", "jazz", and "london".
radius	The radius of the pie chart. The default value is "75%".
center_x	The position of the center of the pie chart (x axis). Default value is "50%".
center_y	The position of the center of the pie chart (y axis). Default value is "50%".
show.label	Whether display the leble for the pie chart. The default value is TRUE.

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show.legend Whether display the legends. The default value is TRUE. show.tools Whether display the tool bar. The default value is TRUE. font.size.legend

The font size of legend bar. The default value is 12.

animation

Whether display the chart with animation. The default value is TRUE.

hyperlinks

Vector. Users can link each element in the chart to a hyperlink (URL like http://\*\*\*.com). Please note this is only supported when the data is in data.frame format, and the length of the "hyperlinks" vector should be the same to the number of rows in the data given.

Note that if hyperlinks are available, the fonts in the pop-up window will be in skyblue color and italic style.

running\_in\_shiny

If we're actually running this in a Shiny library, or we're simply doing testing. Default valus is "TRUE". If "FALSE", the function will print what it's supposed to evaluate.

#### Note

Users need to state the division for the chart first, with tags\$div() function of Shiny packages. Please note that the division id must keep unique (duplicated division id will cause error).

## Author(s)

```
Xiaodong DENG
(ECharts library is authored by Baidu team)
```

16 renderRadarChart

renderRadarChart

Render the Radar Chart Plotted by ECharts into Shiny Application

## **Description**

renderRadarChart() function helps render the Radar chart into Shiny application.

#### Usage

#### **Arguments**

div\_id The division id users specified for this chart. The division will be specified in

ui.R.

data The data used for the plotting. It should be a data frame. For radar chart, the

data must have row names and column names specified.

theme Which ECharts theme to use. Valid values include "default", "roma", "info-

graphic", "macarons", "vintage", "shine", "caravan", "dark-digerati", "jazz", and

"london"

shape The shape of the radar chart. Valid values include "default" and "circle".

line.width The width of the lines in the radar chart.

show.legend If display the legends. The default value is TRUE. show.tools If display the tool bar. The default value is TRUE.

font.size.legend

The font size of legend bar. The default value is 12.

animation Whether display the chart with animation. The default value is TRUE.

running\_in\_shiny

If we're actually running this in a Shiny library, or we're simply doing testing. Default valus is "TRUE". If "FALSE", the function will print what it's supposed to evaluate.

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## Note

Users need to state the division for the chart first, with tags\$div() function of Shiny packages. Please note that the division id must keep unique (duplicated division id will cause error).

## Author(s)

```
Xiaodong DENG
(ECharts library is authored by Baidu team)
```

## **Examples**

```
if (interactive()) {
 library(shiny)
 library(ECharts2Shiny)
 dat <- data.frame(Type.A = c(4300, 10000, 25000, 35000, 50000),
                 Type.B = c(5000, 14000, 28000, 31000, 42000)
                 Type.C = c(4000, 2000, 9000, 29000, 35000)
 row.names(dat) <- c("Feture 1", "Feature 2", "Feature 3", "Feature 4", "Feature 5")
 # Server function ------
 server <- function(input, output) {</pre>
   renderRadarChart(div_id = "test",
                 data = dat)
 }
 # UI layout -----
 ui <- fluidPage(
   # We MUST load the ECharts javascript library in advance
   loadEChartsLibrary(),
   tags$div(id="test", style="width:50%;height:400px;"),
   deliverChart(div_id = "test")
 # Run the application -----
 shinyApp(ui = ui, server = server)
}
```

renderScatter

Render the Scatter Plots Plotted by ECharts into Shiny Application

## Description

renderScatter() function helps render the scatter plots into Shiny applications.

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#### **Usage**

#### **Arguments**

div\_id The division id users specified for this chart. The division will be specified in

ui.R.

data must be made up of three columns, "x", "y", and "group".

point.size This argument helps set the size of points in the scatter plots. It should be a

single numeric or integer value. The dafault value is 10.

point.type The shape of the points in scatter plots.

Valid values include 'emptyCircle', 'circle', 'rect', 'roundRect', 'triangle', 'dia-

mond', 'pin', 'arrow'. The default value is 'circle'.

The length of this argument should either be one or be the same as the number of UNIQUE groups (the number of unique elements in 'group' column of the

data input).

theme Which ECharts theme to use. Valid values include "default", "roma", "info-

graphic", "macarons", "vintage", "shine", "caravan", "dark-digerati", "jazz", and

"london".

auto.scale A logical argument to determine if the scatter plot should be scaled again auto-

matically after the users exclude any group of observations. The default value is

TRUE.

show. legend If display the legends. The default value is TRUE.

show. tools If display the tool bar. The default value is TRUE.

font.size.legend

The font size of legend bar. The default value is 12.

font.size.axis.x

The font size of the labels on X axis. The default value is 12.

font.size.axis.y

The font size of the labels on Y axis. The default value is 12.

axis.x.name The name of X axis. The default value is NULL.

axis.y.name The name of Y axis. The default value is NULL.

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```
The rotation degree of labels on X axis. The default value is 0.
rotate.axis.x
                  The rotation degree of labels on Y axis. The default value is 0.
rotate.axis.y
show.slider.axis.x
                  Whether display slider on X axis. The default value is FALSE.
show.slider.axis.v
                  Whether display slider on Y axis. The default value is FALSE.
animation
                  Whether display the chart with animation. The default value is TRUE.
grid_left
                  Distance between grid component and the left side of the container. Default
                  value is "3%".
grid_right
                  Distance between grid component and the right side of the container. Default
                  value is "4%".
grid_top
                  Distance between grid component and the top side of the container. Default
                  value is "16%".
grid_bottom
                  Distance between grid component and the bottom side of the container. Default
                  value is "3%".
running_in_shiny
                  If we're actually running this in a Shiny library, or we're simply doing testing.
```

If we're actually running this in a Shiny library, or we're simply doing testing. Default valus is "TRUE". If "FALSE", the function will print what it's supposed to evaluate.

#### Note

Users need to state the division for the chart first, with tags\$div() function of Shiny packages. Please note that the division id must keep unique (duplicated division id will cause error).

## Author(s)

```
Xiaodong DENG
(ECharts library is authored by Baidu team)
```

20 renderTreeMap

renderTreeMap

Render Interactive Tree Map into Shiny Application

## **Description**

renderTreeMap() function helps render interactive tree map chart into Shiny application.

## Usage

## Arguments

div\_id The division id users specified for this chart. The division will be specified in

ui.R.

data The data used for tree map. Not like other charts, here we need to use JSON data

for the tree map charts, since there may be nested data which can be handled by

JSON much easilier (please check 'example').

name The name of the tree map chart.

leafDepth It determines when the 'drill down' feature will start to work.

This is for mainly nested data, like we may ave categories 'A-1' and 'A-2' under

'A', and furtherly we have 'A-1-1' and 'A-1-2' under 'A-1'.

The value of this argument must be integer and bigger than 0 (float value will be

converted to its ceiling value automatically). The default value is 2.

theme Which ECharts theme to use. Valid values include "default", "roma", "info-

graphic", "macarons", "vintage", "shine", "caravan", "dark-digerati", "jazz", and

"london".

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```
show.tools If display the tool bar. The default value is TRUE. running_in_shiny
```

If we're actually running this in a Shiny library, or we're simply doing testing. Default valus is "TRUE". If "FALSE", the function will print what it's supposed to evaluate.

#### Note

Users need to state the division for the chart first, with tags\$div() function of Shiny packages. Please note that the division id must keep unique (duplicated division id will cause error).

## Author(s)

```
Xiaodong DENG
(ECharts library is authored by Baidu team)
```

```
if (interactive()) {
   library(shiny)
   library(ECharts2Shiny)
   # Prepare sample data for plotting -----
   dat <- "[{name: 'A',</pre>
             value: 6,
             children: [
                 {
                 name: 'A-1',
                 value: 6,
                 children:[
                 {
                 name: 'A-1-1',
                 value: 6
                 },
                 {
                 name: 'A-1-2',
                 value: 2
                 }
                 ]
                 },
                 {
                 name: 'A-2',
                 value: 3
           },
             name: 'B',
             value: 6,
             children: [
```

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```
{name : 'B-1',
               value:10
               },
               {
               name: 'B-2',
               value:2
               }
            ]
          },
            name: 'C',
            value: 4
          }]"
   # Server function ------
   server <- function(input, output) {</pre>
     # Call functions from ECharts2Shiny to render charts
     renderTreeMap(div_id = "test",
                 data = dat)
       }
   # UI layout -----
   ui <- fluidPage(
     \ensuremath{\text{\#}} We MUST load the ECharts javascript library in advance
     loadEChartsLibrary(),
     tags$div(id="test", style="width:100%;height:500px;"),
     deliverChart(div_id = "test")
   # Run the application ------
   shinyApp(ui = ui, server = server)
}
```

renderWordcloud

Render the Word Cloud Plotted by ECharts into Shiny Application

## **Description**

renderWordcloud() function helps render the word cloud charts into Shiny applications.

## Usage

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#### **Arguments**

div_id	The division id users specified for this chart. The division will be specified in
	' D

ui.R.

data The data used for the plotting. It should be either a vector or a data.frame.

If it's a vector, it should be made up of all the elements you want to count and

plot, like c("a", "a", "b", "a", "b", "c").

If it's a data.frame, the data must be made up of only two columns, "name" and

"value". The "value" column must be numeric or integer.

shape The shape of the word cloud. The valid values include "circle" (default value),

"cardioid", "diamond", "triangle-forward", "triangle", "pentagon" and "star".

grid\_size The size of the grid in word cloud.

sizeRange The font size range in the word cloud. It should be a vector of length two. The

default value is c(15, 50).

rotationRange The rotation angle range in the word cloud. It should be a vector of length two.

The default value is c(-45, 45).

hyperlinks Vector. Users can link each element in the chart to a hyperlink (URL like

http://\*\*\*.com). Please note this is only supported when the data is in data.frame format, and the length of the "hyperlinks" vector should be the same to the num-

ber of rows in the data given.

Note that if hyperlinks are available, the fonts in the pop-up window will be in

skyblue color and italic style.

running\_in\_shiny

If we're actually running this in a Shiny library, or we're simply doing testing. Default valus is "TRUE". If "FALSE", the function will print what it's supposed

to evaluate.

## Note

Users need to state the division for the chart first, with tags\$div() function of Shiny packages. Please note that the division id must keep unique (duplicated division id will cause error).

## Author(s)

```
Xiaodong DENG
(ECharts library is authored by Baidu team)
```

#### References

https://github.com/ecomfe/echarts-wordcloud

```
if (interactive()) {
  library(shiny)
  library(ECharts2Shiny)
```

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```
sample_data_for_wordcloud <- c(rep("R", 100),</pre>
                          rep("Python", 100),
                          rep("SAS", 90),
                          rep("VBA", 50))
# Server function -----
server <- function(input, output) {</pre>
 renderWordcloud("test", data =sample_data_for_wordcloud,
               grid\_size = 10, sizeRange = c(20, 50))
}
# UI layout -----
ui <- fluidPage(</pre>
 # We MUST load the ECharts javascript library in advance
 loadEChartsLibrary(),
 tags$div(id="test", style="width:100%;height:500px;"),
 deliverChart(div_id = "test")
# Run the application -----
shinyApp(ui = ui, server = server)
```

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