

# Package ‘echarts’

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**Title** EChart htmlwidget

**Version** 0.0.1

**Description** htmlwidget for ECharts 2.

**Depends** R (>= 3.3.2)

**License** MIT + file LICENSE

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**LazyData** true

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magrittr,  
dplyr,  
methods

**RoxygenNote** 6.0.1

**URL** <http://john-coene.com/htmlwidgets/echarts/>

**BugReports** <https://github.com/JohnCoene/echarts/issues>

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---

eanimation	<i>Add animations</i>
------------	-----------------------

---

**Description**

Add animations

## Usage

```
eanimation(p, animation = TRUE, addDataAnimation = TRUE,  
  animationThreshold = 2000, animationDuration = 2000,  
  animationDurationUpdate = 500, animationEasing = "ExponentialOut", ...)
```

## Arguments

<code>p</code>	an echart objects.
<code>animation</code>	whether to show the initial animation.
<code>addDataAnimation</code>	specifies whether the dynamic data interface animation will be enabled.
<code>animationThreshold</code>	threshold of animated elements.
<code>animationDuration</code>	duration of animation, in ms.
<code>animationDurationUpdate</code>	duration of the update animation, in ms.
<code>animationEasing</code>	easing effect, see details for valid values.
<code>...</code>	any other options.

## Details

- linear
- QuadraticIn
- QuadraticOut
- QuadraticInOut
- CubicIn
- CubicOut
- CubicInOut
- QuarticIn
- QuarticOut
- QuarticInOut
- SinusoidalIn
- SinusoidalOut
- SinusoidalInOut
- ExponentialIn
- ExponentialOut
- ExponentialInOut
- CircularIn
- CircularOut
- CircularInOut

- ElasticIn
- ElasticOut
- ElasticInOut
- BackIn
- BackOut
- BackInOut
- BounceIn
- BounceOut
- BounceInOut

### Examples

```
mtcars %>%
  echart(mpg) %>%
  ebar(qsec) %>%
  eanimation(animationEasing = "BounceIn")

mtcars %>%
  echart(mpg) %>%
  escatter(qsec, drat, symbolSize = 20) %>%
  eanimation(animationEasing = "CubicInOut")
```

---

earea

*Add area*


---

### Description

Add area serie.

### Usage

```
earea(p, serie, name = NULL, stack = NULL, smooth = TRUE, ...)

earea_(p, serie, name = NULL, stack = NULL, smooth = TRUE, ...)
```

### Arguments

p	an echart object.
serie	value column name to plot.
name	of serie.
stack	name of the stack.
smooth	whether to smooth line.
...	any other argument to pass to the serie. i.e.: same parameters as <a href="#">eline</a> or <a href="#">eline_</a>

## Examples

```
df <- data.frame(x = LETTERS[1:10], y = runif(10, 30, 70), z = runif(10, 10, 50))

df %>%
  echart_("x") %>%
  earea_("y", smooth = FALSE, symbol = "emptyRectangle", symbolSize = 5)

df %>%
  echart(x) %>%
  earea(y, stack = "grp") %>%
  earea(z, stack = "grp") %>%
  etheme("roma")

df <- data.frame(x = 1:10, y = runif(10, 30, 70), z = runif(10, 10, 50))

df %>%
  echart(x) %>%
  earea(z, stack = "grp") %>%
  earea(y)
```

---

ebar

Add bars

---

## Description

Add bar serie.

## Usage

```
ebar(p, serie, name = NULL, stack = NULL, clickable = TRUE,
     xAxisIndex = 0, yAxisIndex = 0, barGap = "100%",
     barCategoryGap = "20%", legendHoverLink = TRUE, z = 2, zlevel = 0,
     tooltip, ...)
```

```
ebar_(p, serie, name = NULL, stack = NULL, clickable = TRUE,
      xAxisIndex = 0, yAxisIndex = 0, barGap = "30%",
      barCategoryGap = "20%", legendHoverLink = TRUE, z = 2, zlevel = 0,
      tooltip, ...)
```

## Arguments

p	an echart object.
serie	value column name to plot.
name	of serie.
stack	name of the stack.
clickable	whether plot is clickable.

`xAxisIndex`, `yAxisIndex`  
                     axis indexes.  
`barGap`, `barCategoryGap`  
                     distance between each bar.  
`legendHoverLink`  
                     enables legend hover links.  
`z`, `zlevel`          first and second grade cascading control, the higher z the closer to the top.  
`tooltip`            style of tooltip.  
`...`                any other argument to pass to the serie.

### See Also

[official bar options docs](#)

### Examples

```
mtcars %>%
  echart_("mpg") %>%
  ebar_("qsec")

mtcars %>%
  echart_("disp") %>%
  ebar_("mpg", stack = "grp") %>% # stack
  ebar_("qsec", stack = "grp") %>% # stack
  ebar_("wt", stack = "grp2") %>% # not stacked
  etooltip(trigger = "item") %>%
  elegend() %>%
  etoolbox_magic(type = list("stack", "tiled")) %>%
  etoolbox_restore()

df <- data.frame(x = LETTERS[1:4], y = runif(4, 0, 20), z = runif(4, 10, 15), w = runif(4, 15, 30))

df %>%
  echart(x) %>%
  ebar(y, stack = "grp") %>%
  ebar(z, stack = "grp") %>%
  ebar(w, "grp2") %>%
  etheme("macarons") %>%
  etooltip(trigger = "axis")
```

---

ecandle

*Add candlestick*

---

### Description

Add candlestick bars.

**Usage**

```
ecandle(p, opening, closing, low, high, name = NULL, clickable = TRUE,
        z = 2, zlevel = 0, ...)
```

```
ecandle_(p, opening, closing, low, high, name = NULL, clickable = TRUE,
        z = 2, zlevel = 0, ...)
```

**Arguments**

p	an echart object.
opening, closing, low, high	stock prices.
name	name of serie.
clickable	whether serie is clickable.
z, zlevel	first and second grade cascading control, the higher z the closer to the top.
...	any other options to pass to candlesticks.

**See Also**

[candlestick official docs](#)

**Examples**

```
# generate data
date <- c("2017-01-01", "2017-01-02", "2017-01-03", "2017-01-04", "2017-03-05",
        "2017-01-06", "2017-01-07")
stock <- data.frame(date = date,
                    opening = c(200.60, 200.22, 198.43, 199.05, 203.54, 203.40, 208.34),
                    closing = c(200.72, 198.85, 199.05, 203.73, 204.08, 208.11, 211.88),
                    low = c(197.82, 198.07, 197.90, 198.10, 202.00, 201.50, 207.60),
                    high = c(203.32, 200.67, 200.00, 203.95, 204.90, 208.44, 213.17))

stock %>%
  echart_("date") %>%
  ecandle_("opening", "closing", "low", "high")

js <- htmlwidgets::JS("function(params){
  var res = 'opening: ' + params.value[0] + '<br>' + 'closing: ' + params.value[3];
  return res}")

stock %>%
  echart(date) %>%
  ecandle(opening, closing, low, high, barMaxWidth = 20) %>%
  etooltip(trigger = "item", formatter = js) %>%
  etheme("macarons")
```

---

echart	<i>Initiate an echart</i>
--------	---------------------------

---

**Description**

Initiate an echart graph.

**Usage**

```
echart(data, x, width = NULL, height = NULL, elementId = NULL)
```

```
echart_(data, x, width = NULL, height = NULL, elementId = NULL)
```

**Arguments**

data	data.frame containing data to plot.
x	variable column.
width, height	dimensions of chart.
elementId	id of div containing chart.

---

echarts-shiny	<i>Shiny bindings for echarts</i>
---------------	-----------------------------------

---

**Description**

Output and render functions for using echarts within Shiny applications and interactive Rmd documents.

**Usage**

```
echartsOutput(outputId, width = "100%", height = "400px")
```

```
renderEcharts(expr, env = parent.frame(), quoted = FALSE)
```

**Arguments**

outputId	output variable to read from
width, height	Must be a valid CSS unit (like '100%', '400px', 'auto') or a number, which will be coerced to a string and have 'px' appended.
expr	An expression that generates a echarts
env	The environment in which to evaluate expr.
quoted	Is expr a quoted expression (with quote())? This is useful if you want to save an expression in a variable.



---

echord

*Add chord*

---

## Description

Add chord chart.

## Usage

```
echord(p, name = NULL, sort = "none", sortSub = "none",  
       clickable = TRUE, z = 2, zlevel = 0, symbol = NULL,  
       symbolSize = NULL, clockWise = FALSE, minRadius = 10, maxRadius = 20,  
       ribbonType = TRUE, showScale = FALSE, showScaleText = FALSE,  
       padding = 2, ...)
```

```
echord_(p, name = NULL, sort = "none", sortSub = "none",  
        clickable = TRUE, z = 2, zlevel = 0, symbol = NULL,  
        symbolSize = NULL, clockWise = FALSE, minRadius = 10, maxRadius = 20,  
        ribbonType = TRUE, showScale = FALSE, showScaleText = FALSE,  
        padding = 2, ...)
```

## Arguments

p	an echart object.
name	name of serie.
sort, sortSub	data sorting, none, ascending or descending.
clickable	whether plot is clickable.
z, zlevel	first and second grade cascading control, the higher z the closer to the top.
symbol	marker, see details for valid values.
symbolSize	of symbol.
clockWise	whether links are displayed in clockwise direction.
minRadius, maxRadius	minimum and maximum radius after mapping to symbol size.
ribbonType	set to TRUE to use ribbons.
showScale	whether the scale will be showed. Only available if ribbonType is true.
showScaleText	whether to show scale text.
padding	distance between each sector.
...	any other options to pass to serie.

## Details

Valid values for symbol:

- circle
- rectangle
- triangle
- diamond
- emptyCircle
- emptyRectangle
- emptyTriangle
- emptyDiamond
- heart
- droplet
- pin
- arrow
- star

## See Also

[official scatter options docs](#)

## Examples

```
set.seed(19880525)
matrix <- matrix(sample(0:1, 100, replace = TRUE, prob = c(0.9,0.6)), nc = 10)

matrix %>%
  echart_(LETTERS[1:10]) %>%
  echord_()

matrix %>%
  echart(LETTERS[1:10]) %>%
  echord(ribbonType = FALSE)
```

---

ecloud

*Add wordcloud*

---

## Description

Add wordcloud serie.

**Usage**

```
ecloud(p, freq, color, name = NULL, clickable = TRUE,
       center = list("50%", "50%"), size = list("40%", "40%"),
       textRotation = list(0, 90), autoSize = list(enable = TRUE, minSize = 12),
       z = 2, zlevel = 0, tooltip, ...)

ecloud_(p, freq, color = NULL, name = NULL, clickable = TRUE,
        center = list("50%", "50%"), size = list("40%", "40%"),
        textRotation = list(0, 90), autoSize = list(enable = TRUE, minSize = 12),
        z = 2, zlevel = 0, tooltip, ...)
```

**Arguments**

<code>p</code>	an echart object.
<code>freq</code>	frequencies.
<code>color</code>	color of terms.
<code>name</code>	name of wordcloud.
<code>clickable</code>	whether terms are clickable.
<code>center</code>	center of cloud.
<code>size</code>	size of cloud.
<code>textRotation</code>	horizontal and vertical text rotation.
<code>autoSize</code>	automatic text size computation.
<code>z, zlevel</code>	first and second grade cascading control, the higher z the closer to the top.
<code>tooltip</code>	customise tooltip.
<code>...</code>	any other argument to pass to funnel.

**See Also**

[official wordcloud docs](#)

**Examples**

```
tf <- data.frame(terms = c("ECharts", "htmlwidgets", "rstats", "htmltools"),
                 freq = c(20, 17, 15, 7), color = c("red", "orange", "yellow", "grey"))

tf %>%
  echart_("terms") %>%
  ecloud_("freq", "color") %>%
  etooltip()
```

ecolorbar

*Customise colorbar***Description**

Customise the colorbar of your chart.

**Usage**

```
ecolorbar(p, min = NULL, max = NULL, which = "previous", show = TRUE,
  color = NULL, zlevel = 4, z = 0, orient = "vertical", x = "left",
  y = "bottom", backgroundColor = "rgba(0,0,0,0)", borderColor = "#ccc",
  borderWidth = 0, padding = 5, itemGap = 10, itemWidth = 20,
  itemHeight = 14, precision = 0, splitNumber = 5, splitList = NULL,
  range = NULL, selectedMode = TRUE, calculable = FALSE,
  hoverLink = TRUE, realtime = FALSE, ...)
```

**Arguments**

p	an echart object.
min, max	minimum and maximum.
which	series to serie is to be affected, takes the name of a serie, previous or all.
show	whether to show the color bar.
color	colors as list from high to low. i.e.: list("red", "blue").
z, zlevel	first and second grade cascading control, the higher z the closer to the top.
orient	orientation of bar, vertical or horizontal.
x	x position; left or right.
y	y posotion; top or bottom.
backgroundColor	background color.
borderColor	border color.
borderWidth	width of border.
padding	padding.
itemGap	gap between items on bar.
itemWidth	width of the bar.
itemHeight	height of the bar.
precision	decimal precision.
splitNumber	number of segments.
splitList	see <a href="#">official docs</a> for details.
range	used to set initial range i.e.: list(start = 10, end = 50).
selectedMode	selection mode.

calculable	whether values are calculable.
hoverLink	hoverlink with map.
realtime	set to TRUE if using real time stream.
...	any other argument to pass to color bar.

### Details

ecolorbar refers to [datarange](#) in docs.

### See Also

[official dataRange docs](#)

### Examples

```
df <- data.frame(x = 1:20,
                 y = runif(20, 5, 10),
                 size = runif(20, 5, 15))

df %>%
  echart(x) %>%
  escatter(y, size, symbolSize = 10, legendHoverLink = TRUE) %>%
  ecolorbar(color = list("red", "blue"), min = 5, max = 15, calculable = TRUE)
```

---

edata	<i>Add data</i>
-------	-----------------

---

### Description

Add a dataset.

### Usage

```
edata(p, data, x)
```

```
edata_(p, data, x)
```

### Arguments

p	an echart object.
data	data.frame.
x	x variable.

### See Also

[emap](#)

eforce

*Build force network***Description**

Build force network

Plot force directed graph.

**Usage**

```
eforce(p, name = NULL, large = FALSE, center = list("50%", "50%"),
      roam = FALSE, size = "100%", ribbonType = FALSE, minRadius = 10,
      maxRadius = 20, linkSymbol = "none", linkSymbolSize = list(10, 15),
      scaling = 1, gravity = 1, draggable = TRUE, useWorker = TRUE,
      steps = 1, z = 2, zlevel = 0, ...)
```

```
eforce_(p, name = NULL, large = FALSE, center = list("50%", "50%"),
      roam = FALSE, size = "100%", ribbonType = FALSE, minRadius = 10,
      maxRadius = 20, linkSymbol = "none", linkSymbolSize = list(10, 15),
      scaling = 1, gravity = 1, draggable = TRUE, useWorker = TRUE,
      steps = 1, z = 2, zlevel = 0, ...)
```

**Arguments**

p	an echart objects.
name	name of network.
large	set to TRUE to optimise for large graphs.
center	center of network.
roam	set to TRUE to enable zoom and drag.
size	size of layout.
ribbonType	whether to use ribbons.
minRadius, maxRadius	minimum and maximum radius of nodes.
linkSymbol	can be set to arrow.
linkSymbolSize	size of symbol.
scaling	scaling factor.
gravity	centripetal force coefficient.
draggable	set to TRUE to allow dragging nodes.
useWorker	specifies whether to put layout calculation into web worker when the browser supports web worker.
steps	the number of iterations of each frame layout calculation.
z, zlevel	first and second grade cascading control, the higher z the closer to the top.
...	any other options to pass to serie.

See Also

[enodes](#) [eforce](#)

Examples

```
let <- LETTERS[1:20]

edges <- data.frame(source = sample(let, 20), target = sample(let, 20),
  weight = runif(20, 5, 20))

nodes <- data.frame(name = let, value = runif(20, 5, 25), group = rep(LETTERS[1:4], 5))

echart() %>%
  eforce(itemStyle = list(normal = list(label = list(show = TRUE)))) %>% # show labels
  enodes(nodes, name, value = value, category = group) %>%
  elinks(edges, source, target)
```

---

efunnel	<i>Add funnel</i>
---------	-------------------

---

Description

Add funnel

Usage

```
efunnel(p, serie, name = NULL, clickable = TRUE, legendHoverLink = TRUE,
  sort = "descending", min = NULL, max = NULL, x = 80, y = 60,
  x2 = 80, y2 = 60, width = NULL, height = NULL,
  funnelAlign = "center", minSize = "0%", maxSize = "100%", gap = 0,
  tooltip, ...)

efunnel_(p, serie, name = NULL, clickable = TRUE, legendHoverLink = TRUE,
  sort = "descending", min = 0, max = NULL, x = 80, y = 60, x2 = 80,
  y2 = 60, width = NULL, height = NULL, funnelAlign = "center",
  minSize = "0%", maxSize = "100%", gap = 0, tooltip, ...)
```

Arguments

- `p` an echart object.
- `serie` values to plot.
- `name` name of serie.
- `clickable` whether segments are clickable.
- `legendHoverLink` enables legend hover link.

sort	data sorting, takes descending or ascending.
min, max	minimum and maximum values of funnel.
x, y, x2, y2	coordinates of funnel.
width, height	width and height of funnel.
funnelAlign	alignment of funnel takes left, right and center.
minSize, maxSize	minimum and maximum size of funnel.
gap	gap between segments.
tooltip	customise tooltip.
...	any other argument to pass to funnel.

See Also

[official funnel docs](#)

Examples

```
funnel <- data.frame(stage = c("View", "Click", "Purchase"), value = c(80, 30, 20))

funnel %>%
  echart_("stage") %>%
  efunnel_("value")
```

---

egauge	<i>Add gauge</i>
--------	------------------

---

Description

Add gauge.

Usage

```
egauge(p, value, indicator = "", name = NULL, clickable = FALSE,
  legendHoverLink = TRUE, center = list("50%", "50%"),
  radius = list("0%", "75%"), startAngle = 225, endAngle = -45,
  min = 0, max = 100, splitNumber = 10, z = 2, zlevel = 0, tooltip,
  ...)

egauge_(p, value, indicator = "", name = NULL, clickable = FALSE,
  legendHoverLink = TRUE, center = list("50%", "50%"),
  radius = list("0%", "75%"), startAngle = 225, endAngle = -45,
  min = 0, max = 100, splitNumber = 10, z = 2, zlevel = 0, tooltip,
  ...)
```



**Arguments**

p	an echart object.
value	value to plot.
indicator	indicator appearing in center of gauge.
name	name of serie.
clickable	whether the item is clickable.
legendHoverLink	enables legend hover link.
center	center of gauge in pixels of percent.
radius	radius of gauge in pixels of percent.
startAngle, endAngle	start and end angles of gauge.
min, max	minimum and maximum of gauge.
splitNumber	number of segments.
z, zlevel	first and second grade cascading control, the higher z the closer to the top.
tooltip	customise tooltip.
...	any other arguments.

**See Also**

[official gauge docs](#)

**Examples**

```
echart() %>%
  egauge(85, "SPEED")

echart() %>%
  egauge(25, "SPEED") %>%
  etheme("helianthus")

echart() %>%
  egauge(63, "PERCENT") %>%
  etheme("dark")
```

---

egrid

---

*Customise grid*


---

**Description**

Customise grid

**Usage**

```
egrid(p, backgroundColor = NULL, borderWidth = 1, borderColor = NULL,
      width = NULL, height = NULL, z = 0, zlevel = 0, x = 80, y = 60,
      x2 = 80, y2 = 80)
```

**Arguments**

- `p` an echart object.
- `backgroundColor` background color.
- `borderWidth` border width.
- `borderColor` border color.
- `width, height` dimensions of grid.
- `z, zlevel` first and second grade cascading control, the higher z the closer to the top.
- `x, y` ordinate on upper left corner.
- `x2, y2` ordinate on upper right corner.

**See Also**

[official grid docs](#)

**Examples**

```
df <- data.frame(x = 1:20, y = runif(20, 5, 20))

df %>%
  echart(x) %>%
  eline(x) %>%
  egrid(borderWidth = 5, borderColor = "red", backgroundColor = "yellow")
```

---

<code>echartmap</code>	<i>Add heatmap</i>
------------------------	--------------------

---

**Description**

Add heatmap.

**Usage**

```
echartmap(p, y, values, name = NULL, clickable = TRUE, blurSize = 30,
          minAlpha = 0.5, valueScale = 1, opacity = 1, z = 2, zlevel = 0,
          gradientColors, tooltip, ...)

echartmap_(p, y, values, name = NULL, clickable = TRUE, blurSize = 30,
            minAlpha = 0.5, valueScale = 1, opacity = 1, z = 2, zlevel = 0,
            gradientColors, tooltip, ...)
```

Arguments

p	an echart object.
y	yaxis values.
values	heat.
name	name of serie.
clickable	whether chart is clickable.
blurSize	size of points blur.
minAlpha	minimum transparency.
valueScale	values multiplier.
opacity	opacity of heatmap.
z, zlevel	first and second grade cascading control, the higher z the closer to the top.
gradientColors	colors used for gradient as a list i.e.:list("red", "blue")
tooltip	cutomise tooltip.
...	any other options to pass to heatmap.

See Also

[official heatmap docs](#)

Examples

```
set.seed(19880525)
matrix <- data.frame(x = runif(150, 10, 500), y = runif(150, 10, 500), z = runif(150, 10 , 200))

matrix %>%
  echart_("x") %>%
  eheatmap_("y", "z")
```

---

elegend	<i>Add legend</i>
---------	-------------------

---

Description

Add legend

Usage

```
elegend(p, legend, show = TRUE, zlevel = 0, z = 4,
  orient = "horizontal", x = "center", y = "top",
  backgroundColor = "rgba(0,0,0,0)", borderColor = "#ccc",
  borderWidth = 0, padding = 5, itemGap = 10, itemWidth = 20,
  itemHeight = 14, formatter = NULL, selectedMode = TRUE,
  selected = NULL, textStyle, ...)
```

**Arguments**

p	an echart object.
legend	legend.
show	wether to show legend.
z, zlevel	first and second grade cascading control, the higher z the closer to the top.
orient	orientation, vertical or horizontal.
x	x alignment, center, left or right.
y	y alignment, center, top or bottom.
backgroundColor	background color.
borderColor	border color.
borderWidth	border width.
padding	legend padding.
itemGap	gap between legend items.
itemWidth, itemHeight	width and height of items.
formatter	default formatter.
selectedMode	selection mode.
selected	default selected state.
textStyle	textStyle.
...	any other option to pass to legend.

**Examples**

```
df <- data.frame(x = LETTERS[1:10], y = runif(10, 0, 10), z = runif(10, 0, 10))

df %>%
  echart(x) %>%
  ebar(y, name = "y - serie") %>%
  ebar(z) %>%
  elegend()
```

---

eline

Add lines

---

**Description**

Add line serie.

**Usage**

```
eline(p, serie, name = NULL, stack = NULL, clickable = TRUE,
      xAxisIndex = 0, yAxisIndex = 0, symbol = NULL, symbolSize = "2 | 4",
      symbolRotate = NULL, showAllSymbol = FALSE, smooth = TRUE,
      legendHoverLink = TRUE, dataFilter = "nearest", z = 2, zlevel = 0,
      tooltip, ...)
```

```
eline_(p, serie, name = NULL, stack = NULL, clickable = TRUE,
        xAxisIndex = 0, yAxisIndex = 0, symbol = NULL, symbolSize = "4",
        symbolRotate = NULL, showAllSymbol = FALSE, smooth = TRUE,
        legendHoverLink = TRUE, dataFilter = "nearest", z = 2, zlevel = 0,
        tooltip, ...)
```

**Arguments**

p	an echart object.
serie	value column name to plot.
name	of serie.
stack	name of the stack.
clickable	whether plot is clickable.
xAxisIndex, yAxisIndex	axis indexes.
symbol	symbol for point marker, see details for valid values.
symbolSize	of symbol.
symbolRotate	angle by which symbol is rotated, i.e.: 30.
showAllSymbol	By default, a symbol will show only when its corresponding axis label does.
smooth	whether to smooth line.
legendHoverLink	enables legend hover link to the chart.
dataFilter	ECharts data filtering strategy, see details.
z, zlevel	first and second grade cascading control, the higher z the closer to the top.
tooltip	style of tooltip.
...	any other argument to pass to the serie.

**Details**

Valid values for symbol:

- circle
- rectangle
- triangle
- diamond
- emptyCircle

- emptyRectangle
- emptyTriangle
- emptyDiamond
- heart
- droplet
- pin
- arrow
- star

`dataFilter`: ECharts will optimize for the situation when data number is much larger than viewport width. It will filter the data showed in one pixel width. And this option is for data filtering strategy.

Valid values for `dataFilter` are:

- nearest (default)
- min
- max
- average

## See Also

[official line options docs](#)

## Examples

```
df <- data.frame(x = 1:50, y = runif(50, 5, 10), z = runif(50, 7, 12), w = runif(50, 10, 13))

df %>%
  echart(x) %>%
  eline(y) %>%
  eline(z)

# JS sizing function
sizing <- htmlwidgets::JS("function(value){ return value[1]/1.5}")

df %>%
  echart_("x") %>%
  eline_("y", "w",
    symbolSize = sizing,
    showAllSymbol = TRUE,
    symbol = "emptyCircle") %>%
  etooltip() %>%
  etheme("helianthus")

df %>%
  echart_("x") %>%
  eline_("y", stack = "grp") %>%
  eline_("z", stack = "grp", symbol = "emptyDroplet", showAllSymbol = TRUE, symbolSize = 5) %>%
  eline_("w", showAllSymbol = TRUE, symbolSize = 4, symbol = "emptyHeart", stack = "grp2") %>%
```

```
etooltip() %>%
elegend() %>%
etoolbox_magic(type = list("line", "bar"))
```

---

elinks

Add edges

---

## Description

Add edges for [eforce](#).

Add edges for [eforce](#).

## Usage

```
elinks(p, links, source, target, weight = 1)
```

```
elinks_(p, links, source, target, weight = 1)
```

## Arguments

p	an echart object.
links	edges data.frame.
source	source column.
target	target column.
weight	edge weight.

## See Also

[enodes](#) [eforce](#)

## Examples

```
let <- LETTERS[1:20]

edges <- data.frame(source = sample(let, 20), target = sample(let, 20),
  weight = runif(20, 5, 20))

nodes <- data.frame(name = let, value = runif(20, 5, 25), group = rep(LETTERS[1:4], 5))

echart() %>%
  eforce(itemStyle = list(normal = list(label = list(show = TRUE)))) %>% # show labels
  enodes(nodes, name, value = value, category = group) %>%
  elinks(edges, source, target)

echart() %>%
  eforce(itemStyle = list(normal = list(label = list(show = TRUE)))) %>% # show labels
  enodes(nodes, name, value = value, category = group) %>%
```

```

    elinks(edges, source, target, weight = 1)

let <- LETTERS[1:20]

edges <- data.frame(source = sample(let, 20), target = sample(let, 20),
  weight = runif(20, 5, 20))

nodes <- data.frame(name = let, value = runif(20, 5, 25), group = rep(LETTERS[1:4], 5))

echart() %>%
  eforce_(itemStyle = list(normal = list(label = list(show = TRUE)))) %>% # show labels
  enodes_(nodes, "name", value = "value", category = "group") %>%
  elinks_(edges, "source", "target")

```

---

emap

Add blank map

---

## Description

Setup map plot.

## Usage

```

emap(p, name = NULL, mapType = "world", clickable = TRUE, z = 2,
  zlevel = 0, selectedMode = NULL, hoverable = FALSE,
  dataRangeHoverLink = TRUE, mapLocation = list(x = "center", y = "center"),
  mapValueCalculation = "sum", mapValuePrecision = 0,
  showLegendSymbol = TRUE, roam = FALSE, scaleLimit = NULL,
  nameMap = NULL, textFixed = NULL, ...)

```

```

emap_(p, name = NULL, mapType = "world", clickable = TRUE, z = 2,
  zlevel = 0, selectedMode = NULL, hoverable = FALSE,
  dataRangeHoverLink = TRUE, mapLocation = list(x = "center", y = "center"),
  mapValueCalculation = "sum", mapValuePrecision = 0,
  showLegendSymbol = TRUE, roam = FALSE, scaleLimit = NULL,
  nameMap = NULL, textFixed = NULL, ...)

```

## Arguments

p	an echart object.
name	name of serie.
mapType	type of map, see examples.
clickable	whether elements are clickable.
z, zlevel	first and second grade cascading control, the higher z the closer to the top.
selectedMode	whether items can be selected.



hoverable	whether elements are hoverable.
dataRangeHoverLink	enables dataRange hover link to the chart.
mapLocation	x and y location of map on canvas, takes top, bottom, left, right, center.
mapValueCalculation	takes sum or average.
mapValuePrecision	decimal precision.
showLegendSymbol	whether to show symbol on legend.
roam	enables zoom and drag.
scaleLimit	controls drag and zoom limits.
nameMap	custom name mapping.
textFixed	fixed text location for a region.
...	any other options to pass to map serie.

### See Also

[emap\\_coords](#), [emap\\_heat](#), [emap\\_lines](#), [emap\\_choropleth](#), [emap\\_points](#), [official map docs](#)

### Examples

```

coords <- data.frame(city = c("London", "New York", "Beijing", "Sydney"),
  lon = c(-0.1167218, -73.98002, 116.3883, 151.18518),
  lat = c(51.49999, 40.74998, 39.92889, -33.92001),
  values = runif(4, 10, 20))

coords %>%
  echart_("city") %>% # initialise chart
  emap_() %>% # setup default map
  emap_coords_("lon", "lat") %>% # add coordinates
  emap_points_("values") # plot values on coordinates

edges <- data.frame(source = c("Beijing", "Beijing", "New York"),
  target = c("Sydney", "London", "London"))

coords %>%
  echart_("city") %>%
  emap_() %>%
  emap_coords_("lon", "lat") %>%
  emap_lines_(edges, "source", "target")

data <- data.frame(lon = runif(200, 90, 120),
  lat = runif(200, 30, 39),
  z = runif(200, 50, 75))

data %>%
  echart_() %>%
  emap_(mapType = "china") %>%

```

```

    emap_heat_("lon", "lat", "z")

us_data <- data.frame(state = c("New York", "Los Angeles", "Dallas"),
                      lat = c(40.730610, 34.052235, 33.940369),
                      lon = c(-73.935242, -118.243683, -84.692894),
                      values = round(runif(3, 1, 2)))

us_data %>%
  echart_("state") %>%
  emap(mapType = "world|United States of America") %>%
  emap_coords_("lon", "lat") %>%
  emap_points_("values")

```

---

emap_choropleth	<i>Add choropleth</i>
-----------------	-----------------------

---

## Description

Add choropleth

## Usage

```

emap_choropleth(p, serie)

emap_choropleth_(p, serie)

```

## Arguments

p	an echart object.
serie	values to plot.

## See Also

[ecolorbar](#)

## Examples

```

choropleth <- data.frame(countries = c("France", "Brazil", "China", "Russia", "Canada", "India"),
                        values = round(runif(6, 10, 25)))

choropleth %>%
  echart_("countries") %>%
  emap_() %>%
  emap_choropleth_("values")

choropleth %>%
  echart_("countries") %>%
  emap_() %>%

```

```
emap_choropleth(values) %>%  
ecolorbar(color = list("red", "yellow"), calculable = TRUE)
```

---

emap_coords	<i>Add map coordinates</i>
-------------	----------------------------

---

## Description

Add coordinates to map.

## Usage

```
emap_coords(p, lon, lat)  
  
emap_coords_(p, lon, lat)
```

## Arguments

p	an echart object
lon, lat	coordinates to plot.

## Examples

```
coords <- data.frame(city = c("London", "New York", "Beijing", "Sydney"),  
  lon = c(-0.1167218, -73.98002, 116.3883, 151.18518),  
  lat = c(51.49999, 40.74998, 39.92889, -33.92001))  
  
edges <- data.frame(source = c("Beijing", "Beijing", "New York"),  
  target = c("Sydney", "London", "London"))  
  
coords %>%  
  echart_("city") %>%  
  emap() %>%  
  emap_coords_("lon", "lat") %>%  
  emap_lines_(edges, "source", "target")
```

emap\_heat

*Add heat on map***Description**

Add heat on map

**Usage**

```
emap_heat(p, lon, lat, z, blurSize = 30, minAlpha = 0.05, valueScale = 1,
  opacity = 1, gradientColors = NULL, ...)
```

```
emap_heat_(p, lon, lat, z, blurSize = 30, minAlpha = 0.05, valueScale = 1,
  opacity = 1, gradientColors = NULL, ...)
```

**Arguments**

p	an echart object.
lon, lat	coordinates.
z	values, heat.
blurSize	blur of points.
minAlpha	minimum transparency.
valueScale	z multiplier.
opacity	opacity of heatmap.
gradientColors	colors.
...	any other parameter to pass to heatmap.

**Examples**

```
data <- data.frame(lon = runif(300, 90, 120),
  lat = runif(300, 30, 39),
  z = runif(300, 75, 100))

data %>%
  echart_() %>%
  emap(mapType = "china") %>%
  emap_heat_("lon", "lat", "z")

data %>%
  echart() %>%
  emap(mapType = "china") %>%
  emap_heat_("lon", "lat", "z", blurSize = 50, minAlpha = 0.3, opacity = 0.8)
```

emap\_lines

*Add map lines***Description**

Add lines on map.

**Usage**

```
emap_lines(p, edges, source, target, name = NULL, clickable = TRUE,
  symbol = "arrow", symbolSize = 2, symbolRotate = NULL, large = FALSE,
  smooth = TRUE, z = 2, zlevel = 0, smoothness = 0.2, precision = 2,
  bundling = list(enable = FALSE, maxTurningAngle = 45), ...)
```

```
emap_lines_(p, edges, source, target, name = NULL, clickable = TRUE,
  symbol = "arrow", symbolSize = 2, symbolRotate = NULL, large = FALSE,
  smooth = TRUE, z = 2, zlevel = 0, smoothness = 0.2, precision = 2,
  bundling = list(enable = FALSE, maxTurningAngle = 45), ...)
```

**Arguments**

p	an echart object.
edges	edges data.frame.
source, target	source and target columns in edges data.frame.
name	name of serie.
clickable	whether lines are clickable.
symbol	symbol, see valid details for valid values.
symbolSize	of symbol.
symbolRotate	angle by which symbol is rotated, i.e.: 30.
large	optimises for 2'000 data points and over.
smooth	whether to smooth lines.
z, zlevel	first and second grade cascading control, the higher z the closer to the top.
smoothness	line smoothness
precision	for 'average'.
bundling	edge bundling settings, see usage.
...	any other options to pass to line.

**Details**

Valid values for symbol:

- circle
- rectangle

- triangle
- diamond
- emptyCircle
- emptyRectangle
- emptyTriangle
- emptyDiamond
- heart
- droplet
- pin
- arrow
- star

### See Also

[emap\\_coords](#) [official map line docs](#)

### Examples

```
coords <- data.frame(city = c("London", "New York", "Beijing", "Sydney"),
  lon = c(-0.1167218, -73.98002, 116.3883, 151.18518),
  lat = c(51.49999, 40.74998, 39.92889, -33.92001))

edges <- data.frame(source = c("Beijing", "Beijing", "New York"),
  target = c("Sydney", "London", "London"))

coords %>%
  echart_("city") %>%
  emap() %>%
  emap_coords_("lon", "lat") %>%
  emap_lines_(edges, "source", "target")

edges2 <- data.frame(source = "London", target = "Sydney")

coords %>%
  echart_("city") %>%
  emap() %>%
  emap_coords_("lon", "lat") %>%
  emap_lines_(edges, "source", "target") %>%
  emap() %>%
  emap_coords_("lon", "lat") %>%
  emap_lines_(edges2, "source", "target", effect = emap_line_effect()) %>%
  etheme("helianthus")

coords2 <- data.frame(city = "Sydney", lon = 151.18518, lat = -33.92001, value = 20)

coords %>%
  echart_("city") %>%
  emap() %>%
```

```

emap_coords_("lon", "lat") %>%
emap_lines(edges, "source", "target") %>%
edata_(coords2, "city") %>%
emap() %>%
emap_coords_("lon", "lat") %>%
emap_lines(edges2, "source", "target", effect = emap_line_effect(scaleSize = 2)) %>%
emap_coords_("lon", "lat") %>%
emap_points("value", symbol = "emptyCircle", effect = list(show = TRUE, shadowBlur = 10)) %>%
etheme("dark")

```

---

emap_line_effect	<i>emap line effect</i>
------------------	-------------------------

---

## Description

Effect for emap lines

## Usage

```

emap_line_effect(show = TRUE, loop = TRUE, period = 30, scaleSize = 1,
  color = "#fff", shadowBlur = 10, shadowColor = NULL, ...)

```

## Arguments

show	set to TRUE to show effect.
loop	set to TRUE to loop animation.
period	period loop.
scaleSize	scale.
color	color.
shadowBlur	blur.
shadowColor	color of shadow.
...	any other option to pass to effect.

## Examples

```

coords <- data.frame(city = c("London", "New York", "Beijing", "Sydney"),
  lon = c(-0.1167218, -73.98002, 116.3883, 151.18518),
  lat = c(51.49999, 40.74998, 39.92889, -33.92001))

edges <- data.frame(source = c("Beijing", "Beijing", "New York"),
  target = c("Sydney", "London", "London"))

coords %>%
  echart(city) %>%
  emap() %>%
  emap_coords(lon, lat) %>%
  emap_lines(edges, source, target, effect = emap_line_effect())

```

---

emap_points	<i>Add map points</i>
-------------	-----------------------

---

**Description**

Add map points

**Usage**

```
emap_points(p, serie, clickable = TRUE, symbol = "pin", symbolSize = 10,  
            symbolRotate = NULL, large = FALSE, itemStyle = NULL, ...)
```

```
emap_points_(p, serie, clickable = TRUE, symbol = "pin", symbolSize = 10,  
             symbolRotate = NULL, large = FALSE, itemStyle = NULL, ...)
```

**Arguments**

p	an echart objects.
serie	values to plot.
clickable	whether points are clickable.
symbol	point symbol, see details for valid values.
symbolSize	size of points.
symbolRotate	angle by which symbol is rotated, i.e.: 30.
large	whether to optimise for large datasets: 2K points +.
itemStyle	cutomise points.
...	any other option to pass to points.

**Details**

Valid values for symbol:

- circle
- rectangle
- triangle
- diamond
- emptyCircle
- emptyRectangle
- emptyTriangle
- emptyDiamond
- heart
- droplet
- pin
- arrow
- star



**See Also**

[office map points docs](#)

**Examples**

```
coords <- data.frame(city = c("London", "New York", "Beijing", "Sydney"),
  lon = c(-0.1167218, -73.98002, 116.3883, 151.18518),
  lat = c(51.49999, 40.74998, 39.92889, -33.92001),
  values = runif(4, 10, 20))

coords %>%
  echart_("city") %>%
  emap() %>%
  emap_coords_("lon", "lat") %>%
  emap_points_("values")

coords2 <- data.frame(city = "Rio", lon = -43.172896, lat = -22.906847, value = 15)

coords %>%
  echart_("city") %>%
  emap() %>%
  emap_coords_("lon", "lat") %>%
  emap_points_("values", symbolSize = 5) %>%
  edata_(coords2, "city") %>%
  emap() %>%
  emap_coords_("lon", "lat") %>%
  emap_points_("value", symbol = "emptyCircle", effect = list(show = TRUE, shadowBlur = 10)) %>%
  etheme("helianthus")
```

---

emap\_roam

*Add Zoom and roam controller*

---

**Description**

Add zoom and roam controller to map.

**Usage**

```
emap_roam(p, show = TRUE, zlevel = 0, z = 4, x = "left", y = "top",
  width = 80, height = 120, backgroundColor = "rgba(0,0,0,0)",
  borderColor = "#ccc", borderWidth = 0, padding = 5,
  fillerColor = "#fff", handleColor = "#6495ed", step = 15,
  mapTypeControl = NULL, ...)
```

**Arguments**

<code>p</code>	an echart object.
<code>show</code>	set to TRUE to show the controller
<code>z, zlevel</code>	first and second grade cascading control, the higher z the closer to the top.
<code>x</code>	x position; left or right.
<code>y</code>	y position; top or bottom.
<code>width, height</code>	dimensions of controller.
<code>backgroundColor</code>	background color.
<code>borderColor</code>	border color.
<code>borderWidth</code>	width of border.
<code>padding</code>	padding.
<code>fillerColor</code>	filler color.
<code>handleColor</code>	color of handle.
<code>step</code>	moving step of the 4 direction roam in px.
<code>mapTypeControl</code>	you can specify every single mapType when multiple map in a chart at the same time, such as: <code>list({ china = FALSE, world = TRUE})</code> .
<code>...</code>	any other option to pass to controller.

**See Also**

[official roam controller docs](#)

**Examples**

```

coords <- data.frame(city = c("London", "New York", "Beijing", "Sydney"),
  lon = c(-0.1167218, -73.98002, 116.3883, 151.18518),
  lat = c(51.49999, 40.74998, 39.92889, -33.92001),
  values = runif(4, 10, 20))

coords %>%
  echart_("city") %>%
  emap() %>%
  emap_coords_("lon", "lat") %>%
  emap_points_("values") %>%
  emap_roam(mapTypeControl = list(world = TRUE))

```

---

emark_line	<i>mark line</i>
------------	------------------

---

**Description**

mark line

**Usage**

```
emark_line(p, which = "previous", data = list(), clickable = TRUE,  
  symbol = list("circle", "arrow"), symbolSize = list(2, 4),  
  symbolRotate = NULL, large = FALSE, smooth = FALSE, precision = 2,  
  bundling = list(enable = FALSE, maxTurningAngle = 45), z = 2,  
  zlevel = 0, ...)
```

**Arguments**

p	an echart object.
which	serie to mark lines of, takes previous, all or name of specific serie.
data	data of mark points, points to mark.
clickable	whether marked points are clickable.
symbol	symbol, see details for valid values.
symbolSize	size of symbol.
symbolRotate	symbol rotation angle, i.e.:30.
large	set to TRUE to optimise for large datasets.
smooth	whether to smooth line.
precision	decimal precision.
bundling	line bundling.
z, zlevel	first and second grade cascading control, the higher z the closer to the top.
...	any other options to pass to mark points.

**Details**

Valid values for symbol:

- circle
- rectangle
- triangle
- diamond
- emptyCircle
- emptyRectangle
- emptyTriangle

- emptyDiamond
- heart
- droplet
- pin
- arrow
- star

Examples

```
df <- data.frame(x = c("Mon", "Tue", "Wed", "Thu", "Fri", "Sat", "Sun"),
  radio = c(320, 332, 301, 334, 390, 330, 320),
  social = c(120, 132, 101, 134, 90, 230, 210))

df %>%
  echart(x) %>%
  ebar(radio, stack = "grp") %>%
  ebar(social, stack = "grp") %>%
  emark_line(data = list(list(type = "max")), clickable = FALSE) %>%
  etooltip(axisPointer = list(type = "shadow")) %>%
  etoolbox_full() %>%
  etoolbox_magic(type = list("tiled", "stack", "line", "bar"))
```

---

emark_point	<i>mark points</i>
-------------	--------------------

---

Description

mark points

Usage

```
emark_point(p, which = "previous", data = list(), clickable = TRUE,
  symbol = "pin", symbolSize = 10, symbolRotate = NULL, large = FALSE,
  ...)
```

Arguments

p	an echart object.
which	serie to mark lines of, takes previous, all or name of specific serie.
data	data of mark points, points to mark.
clickable	whether marked points are clickable.
symbol	symbol, see details for valid values.
symbolSize	size of symbol.
symbolRotate	symbol rotation angle, i.e.:30.
large	set to TRUE to optimise for large datasets.
...	any other options to pass to mark points.

## Details

Valid values for symbol:

- circle
- rectangle
- triangle
- diamond
- emptyCircle
- emptyRectangle
- emptyTriangle
- emptyDiamond
- heart
- droplet
- pin
- arrow
- star

## Examples

```
df <- data.frame(x = 1:150,  
                 y = round(rnorm(150, mean = 5, sd = 1), 2),  
                 z = round(rnorm(150, mean = 7, sd = 1), 2))  
  
df %>%  
  echart(x) %>%  
  escatter(y) %>%  
  escatter(z) %>%  
  earmk_point(which = "all", data = list(list(type = "min"), list(type = "max")))
```

---

eoptions

*Add global options*

---

## Description

Add global options.

## Usage

```
eoptions(p, backgroundColor = NULL, renderAsImage = FALSE,  
        calculable = FALSE, color = NULL, symbolList = NULL, ...)
```

Arguments

p	an echart object.
backgroundColor	background color.
renderAsImage	allows rendering as image.
calculable	specifies whether the drag-recalculate feature will be enabled.
color	colors to use in chart.
symbolList	list of default symbols.
...	any other options.

Examples

```
mtcars %>%
  echart(mpg) %>%
  eline(qsec) %>%
  eoptions(backgroundColor = "black")
```

---

epie	<i>Add pie</i>
------	----------------

---

Description

Add pie chart

Usage

```
epie(p, serie, name = NULL, clickable = TRUE, legendHoverLink = TRUE,
      center = list("50%", "50%"), radius = list(0, "75%"),
      startAngle = 90, minAngle = 0, clockWise = TRUE, roseType = NULL,
      selectedOffset = 10, selectedMode = TRUE, z = 2, zlevel = 0, ...)

epie_(p, serie, name = NULL, clickable = TRUE, legendHoverLink = TRUE,
       center = list("50%", "50%"), radius = list(0, "75%"),
       startAngle = 90, minAngle = 0, clockWise = TRUE, roseType = NULL,
       selectedOffset = 10, selectedMode = TRUE, z = 2, zlevel = 0, ...)
```

Arguments

p	an echart object.
serie	value column name to plot.
name	of serie.
clickable	whether plot is clickable.
legendHoverLink	enables legend hover links.

center	coordinates of the center.
radius	radius in pixels or percent.
startAngle, minAngle	start and minimum angle.
clockWise	whether to display slices in clockwise direction
roseType	type of pie, takes NULL, area or radius, see examples.
selectedOffset	offset of selected slice.
selectedMode	whether slices are selectable.
z, zlevel	first and second grade cascading control, the higher z the closer to the top.
...	any other option to pass to serie.

### See Also

[official pie options docs](#)

### Examples

```
pie <- data.frame(name = c("banana", "apple", "pineapple", "onion"),
  value = c(26, 15, 12, 9))
```

```
pie %>%
  echart_("name") %>%
  epie(value)
```

```
pie %>%
  echart(name) %>%
  epie(value, roseType = "area") %>%
  etheme("helianthus")
```

```
pie %>%
  echart_("name") %>%
  epie_("value", roseType = "radius") %>%
  etheme("blue")
```

---

eradar

Add radar

---

### Description

Add radar chart.

## Usage

```
eradar(p, serie, name = NULL, clickable = TRUE, symbol = NULL,  
       symbolSize = 4, symbolRotate = NULL, legendHoverLink = TRUE,  
       polarIndex = 0, z = 2, zlevel = 0, ...)
```

```
eradar_(p, serie, name = NULL, clickable = TRUE, symbol = NULL,  
        symbolSize = 4, symbolRotate = NULL, legendHoverLink = TRUE,  
        polarIndex = 0, z = 2, zlevel = 0, ...)
```

## Arguments

p	an echart object.
serie	value column name to plot.
name	of serie.
clickable	whether plot is clickable.
symbol	marker, see details for valid values.
symbolSize	of symbol.
symbolRotate	angle by which symbol is rotated, i.e.: 30.
legendHoverLink	enables legend hover links.
polarIndex	polar coordinates index.
z, zlevel	first and second grade cascading control, the higher z the closer to the top.
...	any other options to pass to the serie.

## Details

Valid values for symbol:

- circle
- rectangle
- triangle
- diamond
- emptyCircle
- emptyRectangle
- emptyTriangle
- emptyDiamond
- heart
- droplet
- pin
- arrow
- star



**See Also**

[official radar options docs](#)

**Examples**

```
radar <- data.frame(axis = rep(LETTERS[1:6], 4), grp = sample(LETTERS[4:9], 24, replace = TRUE),
  value = runif(24, 2, 10))

radar %>%
  group_by_("grp") %>%
  echart_("axis") %>%
  eradar_("value", symbolSize = 0) %>%
  elegend() %>%
  etheme("macarons")

radar %>%
  group_by_("grp") %>%
  echart_("axis") %>%
  eradar_("value", symbolSize = htmlwidgets::JS("function(value){return(value)}")) %>%
  elegend() %>%
  etheme("roma")
```

---

 escatter

*Add scatter*


---

**Description**

Add scatter serie.

**Usage**

```
escatter(p, serie, size = NULL, name = NULL, clickable = TRUE,
  symbol = NULL, symbolSize = 4, symbolRotate = NULL, large = FALSE,
  largeThreshold = 2000, legendHoverLink = TRUE, z = 2, zlevel = 0, ...)

escatter_(p, serie, size = NULL, name = NULL, clickable = TRUE,
  symbol = NULL, symbolSize = 4, symbolRotate = NULL, large = FALSE,
  largeThreshold = 2000, legendHoverLink = TRUE, z = 2, zlevel = 0, ...)
```

**Arguments**

p	an echart object.
serie	value column name to plot.
size	size of points/bubble.
name	of serie.
clickable	whether plot is clickable.

symbol	marker, see details for valid values.
symbolSize	of symbol.
symbolRotate	angle by which symbol is rotated, i.e.: 30.
large	enables large scale scatter.
largeThreshold	threshold of large scale scatter auto-switch.
legendHoverLink	enables legend hover links.
z, zlevel	first and second grade cascading control, the higher z the closer to the top.
...	any other options to pass to the serie.

## Details

Valid values for symbol:

- circle
- rectangle
- triangle
- diamond
- emptyCircle
- emptyRectangle
- emptyTriangle
- emptyDiamond
- heart
- droplet
- pin
- arrow
- star

## See Also

[official scatter options docs](#)

## Examples

```
mtcars %>%
  echart_("disp") %>%
  escatter_("mpg", symbol = "emptyCircle") %>%
  exAxis()

mtcars %>%
  echart(displ) %>%
  escatter(mpg, qsec, symbolSize = 15) %>%
  exAxis_value(axisLabel = list(show = FALSE)) %>%
  etheme("mint") %>%
  eanimation(animationEasing = "ElasticOut")
```

---

etheme	<i>Add theme</i>
--------	------------------

---

## Description

Add a theme.

## Usage

```
etheme(p, theme = "default")
```

## Arguments

p	an echart object.
theme,	see details for valid values.

## Details

valid themes:

- default
- mint
- macarons
- macarons2
- green
- blue
- dark
- gray
- helianthus
- red
- roma
- sakura
- shine
- infographic
- solarlight

## Examples

```
mtcars %>%  
  echart(dis) %>%  
  ebar(qsec) %>%  
  ebar(mpg) %>%  
  etheme("roma")
```

etitle

*Add title***Description**

Add chart title and subtitles.

**Usage**

```
etitle(p, text, subtext, link, sublink, target = "blank",
      subtarget = "blank", x = "left", y = "top",
      backgroundColor = "rgba(0,0,0,0)", borderColor = "#ccc",
      borderWidth = 0, padding = 5, itemGap = 5, zlevel = 0, z = 6,
      show = TRUE, ...)
```

**Arguments**

p	an echart object.
text	title.
subtext	subtitle.
link	hyperlink.
sublink	subtext hyperlink.
target	link opening window: self or blank.
subtarget	sublink opening window: self or blank.
x	positon of title, left or right.
y	postion of title, top, bottom or center.
backgroundColor	background color.
borderColor	border color.
borderWidth	width of border.
padding	padding.
itemGap	gap between title and subtitle.
z, zlevel	first and second grade cascading control, the higher z the closer to the top.
show	whether to show the title.
...	any other options to pass to title

**See Also**

[official title docs](#)

Examples

```
mtcars %>%
  echart(displ) %>%
  eline(mpg) %>%
  etitle("MPG vs DISP", "Made with EChart", link = "http://echarts.baidu.com", target = "blank")
```

---

etoolbox	<i>Setup toolbox</i>
----------	----------------------

---

Description

Setup toolbox

Usage

```
etoolbox(p, show = TRUE, zlevel = 0, z = 6, orient = "horizontal",
  x = "right", y = "top", backgroundColor = "rgba(0,0,0,0)",
  borderColor = "#ccc", borderWidth = 0, padding = 5, itemGap = 10,
  itemSize = 16, color = NULL, disableColor = "#ddd",
  effectiveColor = "red", showTitle = TRUE, textStyle = NULL, ...)
```

Arguments

p	an echart object.
show	whether to show the toolbox.
z, zlevel	first and second grade cascading control, the higher z the closer to the top.
orient	toolbox orientation, horizontal or vertical.
x	horizontal alignment, left, right.
y	vertical alignment, top, center, bottom.
backgroundColor	background color.
borderColor	border color.
borderWidth	border width.
padding	padding.
itemGap	space between toolbox buttons.
itemSize	size of buttons.
color	color of buttons.
disableColor	color of disabled item.
effectiveColor	color of active button.
showTitle	set to TRUE to show text.
textStyle	style of text.
...	any other options.

Examples

```
mtcars %>%
  echart(qsec) %>%
  ebar(mpg) %>%
  etoolbox() %>%
  etoolbox_magic(type = list("line", "bar"))
```

---

etoolbox_feature	<i>Add toolbox feature</i>
------------------	----------------------------

---

Description

Add toolbox feature.

Usage

```
etoolbox_feature(p, mark, dataZoom, dataView, magicType, restore, saveAsImage)
```

Arguments

- p an echart object.
- mark markLine icons see [etoolbox\\_mark](#).
- dataZoom dataZoom icons [etoolbox\\_zoom](#).
- dataView dataView icons [etoolbox\\_view](#).
- magicType magicType icons [etoolbox\\_magic](#).
- restore restore icon [etoolbox\\_restore](#).
- saveAsImage saveAsImage icon [etoolbox\\_save](#).

Examples

```
mtcars %>%
  echart(qsec) %>%
  ebar(mpg) %>%
  etoolbox() %>%
  etoolbox_magic(type = list("line", "bar")) %>%
  etoolbox_feature(restore = list(show = TRUE))
```

---

etoolbox_full	<i>Add all elements of toolbox</i>
---------------	------------------------------------

---

**Description**

Adds toolbok mark, restor, save, and view.

**Usage**

```
etoolbox_full(p, ...)
```

**Arguments**

p	an echart object.
...	any other option to pass to <a href="#">etoolbox</a> .

**Details**

Adds mark, restore, save, view and zoom buttons

---

etoolbox_magic	<i>Add toolbox magic buttons</i>
----------------	----------------------------------

---

**Description**

Enable changing chart type.

**Usage**

```
etoolbox_magic(p, show = TRUE, type = list(), title, ...)
```

**Arguments**

p	an echart object.
show	wehtehr to show magic buttons.
type	chart types, see details.
title	titles of charts.
...	any other options to pass to magic feature.

## Details

Pass a list to type, valid values are:

- line
- bar
- stack
- tiled
- force
- chord
- pie
- funnel

## Examples

```
mtcars %>%
  echart(displ) %>%
  ebar(mpg, stack = "grp") %>% # stack
  ebar(qsec, stack = "grp") %>% # stack
  ebar(wt) %>% # not stacked
  etooltip() %>%
  elegend() %>%
  etoolbox() %>%
  etoolbox_magic(type = list("bar", "line", "stack", "tiled"))
```

---

etoolbox\_mark

Add toolbox feature mark button

---

## Description

Enable marking chart.

## Usage

```
etoolbox_mark(p, show = TRUE, title = list(mark = "Mark", markUndo = "Undo",
  markClear = "Clear"), lineStyle = list(color = "#1e90ff", typed = "dashed",
  width = 2, shadowColor = "rgba(0,0,0,0)", shadowBlur = 5, shadowOffsetX = 3,
  shadowOffsetY = 3))
```

## Arguments

p	an echart object.
show	whether to show mark.
title	mark button title.
lineStyle	style of marked line.



## Examples

```
mtcars %>%  
  echart(qsec) %>%  
  ebar(mpg) %>%  
  etoolbox() %>%  
  etoolbox_mark()
```

---

etoolbox_restore	<i>Add toolbox restore button</i>
------------------	-----------------------------------

---

## Description

Add toolbox restore button.

## Usage

```
etoolbox_restore(p, show = TRUE, title = "Reset")
```

## Arguments

p	an echart object.
show	whether to show button.
title	title of button.

## Examples

```
mtcars %>%  
  echart(displ) %>%  
  ebar(mpg, stack = "grp") %>% # stack  
  ebar(qsec, stack = "grp") %>% # stack  
  ebar(wt) %>% # not stacked  
  etoolbox_restore()
```

---

etoolbox_save	<i>Add toolbox save as image button</i>
---------------	---

---

## Description

Add save as image button.

## Usage

```
etoolbox_save(p, show = TRUE, title = "Save as image", type = "png",  
  name = "echarts", lang = "Save")
```

**Arguments**

p	an echart object.
show	whether to show the button.
title	title of button.
type	image type
name	of file.
lang	text.

**Examples**

```
mtcars %>%
  echart(dis) %>%
  ebar(mpg, stack = "grp") %>% # stack
  ebar(qsec, stack = "grp") %>% # stack
  etoolbox() %>%
  etoolbox_save()
```

---

etoolbox\_view

Add toolbox data view

---

**Description**

Enables viewing data table.

**Usage**

```
etoolbox_view(p, show = TRUE, title = "View", readOnly = FALSE,
  lang = list("Data View", "close", "refresh"), ...)
```

**Arguments**

p	an echart object.
show	whether to show data view.
title	button title.
readOnly	set as read-only.
lang	default text.
...	any other parameters to pass to data view.

**Examples**

```
mtcars %>%
  echart(qsec) %>%
  ebar(mpg) %>%
  etoolbox() %>%
  etoolbox_view()
```

---

etoolbox_zoom	<i>Add toolbox zoom button</i>
---------------	--------------------------------

---

**Description**

Add zoom feature.

**Usage**

```
etoolbox_zoom(p, show = TRUE, title = list(dataZoom = "Area Zoom",
dataZoomReset = "Reset"))
```

**Arguments**

- p an echart object.
- show whether to show zoom.
- title button title.

**Examples**

```
mtcars %>%
  echart(qsec) %>%
  ebar(mpg) %>%
  etoolbox() %>%
  etoolbox_zoom()
```

---

etooltip	<i>Add tooltip</i>
----------	--------------------

---

**Description**

Customise tooltip.

**Usage**

```
etooltip(p, show = TRUE, trigger = "axis", zlevel = 1, z = 8,
  showContent = TRUE, position = NULL, formatter = NULL,
  islandFormatter = "{a} < br/>{b} : {c}", showDelay = 20,
  hideDelay = 100, transitionDuration = 0.4, enterable = FALSE,
  backgroundColor = "rgba(0,0,0,0.7)", borderColor = "#333",
  borderRadius = 4, borderWidth = 0, padding = 5, axisPointer, textStyle,
  ...)
```

**Arguments**

<code>p</code>	an echart object.
<code>show</code>	whether to show the tooltip.
<code>trigger</code>	element that triggers the tooltip, takes item or axis.
<code>z, zlevel</code>	first and second grade cascading control, the higher z the closer to the top.
<code>showContent</code>	whether to show the content of tooltip.
<code>position</code>	specifies position, pass a list, like <code>list(10, 10)</code> , fixed position; pass a function, like <code>htmlwidgets::JS("function([x, y]) {return [x + 10, y + 10]}")</code>
<code>formatter</code>	see <a href="http://echarts.baidu.com/echarts2/doc/option-en.html#tooltip.formatter">http://echarts.baidu.com/echarts2/doc/option-en.html#tooltip.formatter</a> for more details.
<code>islandFormatter</code>	island content formatter.
<code>showDelay</code>	number of milliseconds the tooltip shows.
<code>hideDelay</code>	number of milliseconds to wait until the tooltip is hidden when mouse out from a point or chart.
<code>transitionDuration</code>	duration in seconds of the animated transition.
<code>enterable</code>	whether to let the mouse go into the tip dom.
<code>backgroundColor</code>	background color.
<code>borderColor</code>	border color.
<code>borderRadius</code>	border radius.
<code>borderWidth</code>	border width.
<code>padding</code>	padding.
<code>axisPointer</code>	axis pointer, triggered by axis.
<code>textStyle</code>	tooltip text size.
<code>...</code>	any other options to pass to tooltip.

**See Also**

[official tooltip docs](#)

**Examples**

```
mtcars %>%
  echart(displ) %>%
  eline(mpg) %>%
  eline(qsec) %>%
  etooltip(trigger = "axis")
```

etreemap

*Add Treemap***Description**

Add Treemap

**Usage**

```
etreemap(p, serie, name = NULL, itemStyle = NULL, clickable = FALSE,
  center = list("50%", "50%"), size = list("80%", "80%"), z = 2,
  zlevel = 0, ...)

etreemap_(p, serie, name = NULL, itemStyle = NULL, clickable = FALSE,
  center = list("50%", "50%"), size = list("80%", "80%"), z = 2,
  zlevel = 0, ...)
```

**Arguments**

p	an echart object.
serie	values to plot.
name	name of serie.
itemStyle	style of rectangles.
clickable	whether rectangles are clickable.
center	center of map.
size	size of chart.
z, zlevel	first and second grade cascading control, the higher z the closer to the top.
...	any other option to pass to treemap.

**Examples**

```
df <- data.frame(name = LETTERS[1:10], values = round(runif(10, 1, 10)))

df %>%
  echart_("name") %>%
  etreemap_("values") %>%
  etooltip(trigger = "item") %>%
  etheme("macarons")
```

---

evenn

*Add venn*


---

## Description

Add venn diagram

## Usage

```
evenn(p, serie, name = NULL, clickable = TRUE, z = 2, zlevel = 0,
      tooltip = NULL, ...)
```

```
evenn_(p, serie, name = NULL, clickable = TRUE, z = 2, zlevel = 0,
       tooltip = NULL, ...)
```

## Arguments

<code>p</code>	an echart object.
<code>serie</code>	a named vector, see details.
<code>name</code>	name of serie.
<code>clickable</code>	whether circles are clickable.
<code>z, zlevel</code>	first and second grade cascading control, the higher z the closer to the top.
<code>tooltip</code>	customise tooltip.
<code>...</code>	any other argument to pass to funnel.

## See Also

[official venn docs](#)

## Examples

```
venn <- data.frame(name = c("banana", "pineapple", "overlap"),
  values = c(20, 50, 10))
```

```
venn %>%
  echart_("name") %>%
  evenn_("values") %>%
  etheme("macarons2")
```

ezoom

*Add data zoom***Description**

Add data zoom.

**Usage**

```
ezoom(p, show = TRUE, zlevel = 0, z = 4, orient = "horizontal",
      backgroundColor = "rgba(0,0,0,0)", dataBackgroundColor = "#eee",
      fillerColor = "rgba(144,197,237,0.2)",
      handleColor = "rgba(70,130,180,0.8)", handleSize = 8, start = 0,
      end = 100, showDetail = TRUE, realtime = FALSE, zoomLock = FALSE, ...)
```

**Arguments**

p	an echart object.
show	whether to show the data zoom.
z, zlevel	first and second grade cascading control, the higher z the closer to the top.
orient	orientation, takes vertical or horizontal.
backgroundColor	background color.
dataBackgroundColor	background color of data zoom.
fillerColor	fill color of selected area.
handleColor	color of data zoom handle.
handleSize	size of handle.
start, end	percent start and end.
showDetail	whether to show detail when dragging.
realtime	set to TRUE if using real time data.
zoomLock	when set to true, the selected area cannot be zoomed.
...	any other options to pass to data zoom.

**See Also**

[official dataZoom docs](#)

**Examples**

```
mtcars %>%
  echart(dis) %>%
  eline(mpg) %>%
  ezoom()
```

---

nodes	<i>Add nodes</i>
-------	------------------

---

**Description**

Add nodes for [eforce](#).  
Add nodes for [eforce](#).

**Usage**

```
enodes(p, nodes, name, label, value, category, symbolSize, depth,
       ignore = FALSE, symbol = "circle", fixX = FALSE, fixY = FALSE)

enodes_(p, nodes, name, label = NULL, value = NULL, category = NULL,
        symbolSize = NULL, depth = NULL, ignore = FALSE, symbol = "circle",
        fixX = FALSE, fixY = FALSE)
```

**Arguments**

p	an echart object.
nodes	nodes data.frame.
name	name column.
label	nodes label column.
value	nodes value (size).
category	nodes group column.
symbolSize	nodes symbol size column.
depth	depth of nodes.
ignore	whether to ignore nodes.
symbol	nodes symbol, see details for valid values.
fixX, fixY	whether to fix x and y axis position.

**Details**

- Valid values for symbol:
- circle
  - rectangle
  - triangle
  - diamond
  - emptyCircle
  - emptyRectangle
  - emptyTriangle



- emptyDiamond
- heart
- droplet
- pin
- arrow
- star

### See Also

[enodes eforce](#)

### Examples

```
let <- LETTERS[1:20]

edges <- data.frame(source = sample(let, 20), target = sample(let, 20),
  weight = runif(20, 5, 20))

nodes <- data.frame(name = let, value = runif(20, 5, 25), group = rep(LETTERS[1:4], 5))

echart() %>%
  eforce(itemStyle = list(normal = list(label = list(show = TRUE)))) %>% # show labels
  enodes(nodes, name, value = value, category = group) %>%
  elinks(edges, source, target)

let <- LETTERS[1:20]

edges <- data.frame(source = sample(let, 20), target = sample(let, 20),
  weight = runif(20, 5, 20))

nodes <- data.frame(name = let, value = runif(20, 5, 25), group = rep(LETTERS[1:4], 5))

echart() %>%
  eforce_(itemStyle = list(normal = list(label = list(show = TRUE)))) %>% # show labels
  enodes_(nodes, "name", value = "value", category = "group") %>%
  elinks_(edges, "source", "target")
```

---

xAxis

*Customise x axis.*


---

### Description

Customise x axis.

Customize X axis

**Usage**

```

exAxis(p, show = TRUE, type = "value", append = FALSE, ...)

exAxis_category(p, show = TRUE, zlevel = 0, z = 0, boundaryGap = FALSE,
  append = FALSE, ...)

exAxis_value(p, show = TRUE, min = NULL, max = NULL, zlevel = 0,
  z = 0, position = "bottom", name = NULL, nameLocation = "end",
  boundaryGap = list(0, 0), scale = FALSE, splitNumber = NULL,
  append = FALSE, ...)

exAxis_time(p, show = TRUE, zlevel = 0, z = 0, position = "bottom",
  name = NULL, nameLocation = "end", boundaryGap = list(0, 0),
  min = NULL, max = NULL, scale = FALSE, splitNumber = NULL,
  append = FALSE, ...)

exAxis_log(p, show = TRUE, zlevel = 0, z = 0, position = "bottom",
  logLabelBase = NULL, logPositive = NULL, append = FALSE, ...)

```

**Arguments**

<code>p</code>	an echart object.
<code>show</code>	whether to show the axis.
<code>type</code>	type of axis takes, value, category, time, log.
<code>append</code>	whether to append options to current axis or override.
<code>...</code>	any other parameter to pass to the axis.
<code>z, zlevel</code>	first and second grade cascading control, the higher z the closer to the top.
<code>boundaryGap</code>	whether to plot on axis line or between.
<code>min, max</code>	min and max values.
<code>position</code>	position of axis, takes bottom, top, left or right.
<code>name</code>	name of the axis.
<code>nameLocation</code>	location of name, takes start or end.
<code>scale</code>	If FALSE, the value axis must start with 0. If TRUE, you can set the minimum and maximum value of value axis as the starting and ending value of your value axis.
<code>splitNumber</code>	number of segments, defaults to auto split along with the min/max.
<code>logLabelBase</code>	base log.
<code>logPositive</code>	if FALSE negative values are not supported.

**Examples**

```

mtcars$models <- row.names(mtcars)

mtcars[1:10,] %>%

```

```

echart(models) %>%
eline(mpg) %>%
exAxis_category() %>%
eyAxis_value(min = 10, append = FALSE, scale = TRUE)

```

yAxis

*Customise Y axis*

## Description

Customise Y axis

## Usage

```

eyAxis(p, show = TRUE, type = "value", append = FALSE, ...)

eyAxis_category(p, show = TRUE, zlevel = 0, z = 0, boundaryGap = FALSE,
  append = FALSE, ...)

eyAxis_value(p, show = TRUE, zlevel = 0, z = 0, position = "left",
  name = NULL, nameLocation = "end", nameTextStyle = list(),
  boundaryGap = list(0, 0), min = NULL, max = NULL, scale = FALSE,
  splitNumber = NULL, append = FALSE, ...)

eyAxis_time(p, show = TRUE, zlevel = 0, z = 0, position = "left",
  name = NULL, nameLocation = "end", nameTextStyle = list(),
  boundaryGap = list(0, 0), min = NULL, max = NULL, scale = FALSE,
  splitNumber = NULL, append = FALSE, ...)

eyAxis_log(p, show = TRUE, zlevel = 0, z = 0, position = "left",
  logLabelBase = NULL, logPositive = NULL, append = FALSE, ...)

```

## Arguments

p	an echart object.
show	whether to show the axis.
type	type of axis takes, value, category, time, log.
append	whether to append options to current axis or override.
...	any other parameter to pass to the axis.
z, zlevel	first and second grade cascading control, the higher z the closer to the top.
boundaryGap	whether to plot on axis line or between.
position	position of axis, takes bottom, top, left or right.
name	name of the axis.
nameLocation	location of name, takes start or end.

nameTextStyle	style name text.
min, max	min and max values.
scale	If FALSE, the value axis must start with 0. If TRUE, you can set the minimum and maximum value of value axis as the starting and ending value of your value axis.
splitNumber	number of segments, defaults to auto split along with the min/max.
logLabelBase	base log.
logPositive	if FALSE negative values are not supported.

### Examples

```
df <- data.frame(x = c("Mon", "Tue", "Wed", "Thu", "Fri", "Sat", "Sun"),  
  y = runif(7, 1, 5))
```

```
df %>%  
  echart(x) %>%  
  eline(y) %>%  
  exAxis_category(boundaryGap = FALSE)
```

```
df %>%  
  echart(x) %>%  
  ebar(y) %>%  
  eyAxis_log()
```

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