

Package ‘upsetjs’

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Type Package

Title 'HTMLWidget' Wrapper of 'UpSet.js' for Exploring Large Set Intersections

Description 'UpSet.js' is a re-implementation of 'UpSetR' to create interactive set visualizations for more than three sets. This is a 'htmlwidget' wrapper around the 'JavaScript' library 'UpSet.js'.

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`addCategoricalAttribute`
adds a new query to the plot

Description

adds a new query to the plot

Usage

```
addCategoricalAttribute(upsetjs, name, values, categories = NULL)
```

Arguments

<code>upsetjs</code>	an object of class <code>upsetjs</code> or <code>upsetjs_proxy</code>
<code>name</code>	name of the attribute
<code>values</code>	the values as a factor
<code>categories</code>	optional categories otherwise the levels are used

Value

the object given as first argument

Examples

```
upsetjs() %>%
  fromList(list(a = c(1, 2, 3), b = c(2, 3))) %>%
  addCategoricalAttribute("attr", as.factor(sample(c("male", "female"), 3, replace = TRUE)))
```

`addNumericAttribute` *adds a new numeric attribute to the plot*

Description

adds a new numeric attribute to the plot

Usage

```
addNumericAttribute(upsetjs, name, values, min_value = NULL, max_value = NULL)
```

Arguments

upsetjs	an object of class upsetjs or upsetjs_proxy
name	name of the attribute
values	the values as a numeric vector
min_value	optional min domain value
max_value	optional max domain value

Value

the object given as first argument

Examples

```
upsetjs() %>%
  fromList(list(a = c(1, 2, 3), b = c(2, 3))) %>%
  addNumericAttribute("attr", runif(3))
```

addQuery	<i>adds a new query to the plot</i>
----------	-------------------------------------

Description

adds a new query to the plot

Usage

```
addQuery(upsetjs, name, color, elems = NULL, set = NULL)
```

Arguments

upsetjs	an object of class upsetjs or upsetjs_proxy
name	name of the query
color	color of the query
elems	the list of elems to highlight
set	the set name, similar to the selection

Value

the object given as first argument

Examples

```
upsetjs() %>%
  fromList(list(a = c(1, 2, 3), b = c(2, 3))) %>%
  addQuery(name = "Q1", color = "red", set = "b")
```

asCombination *creates a new UpSet set combination structure*

Description

creates a new UpSet set combination structure

Usage

```
asCombination(  
  name,  
  elems = c(),  
  type = "intersection",  
  sets = strsplit(name, "&"),  
  cardinality = length(elems),  
  color = NULL  
)
```

Arguments

name	name of the set combination
elems	the elements of the set combination
type	the set combination type (intersection,distinctIntersection,union,combination)
sets	the sets this combination is part of
cardinality	the cardinality of the set, default to length(elems)
color	the color of the set

Value

the set object

Examples

```
asCombination("a", c(1, 2, 3))
```

asSet *creates a new UpSet set structure*

Description

creates a new UpSet set structure

Usage

```
asSet(name, elems = c(), cardinality = length(elems), color = NULL)
```

Arguments

name	name of the set
elems	the elements of the set
cardinality	the cardinality of the set, default to length(elems)
color	the color of the set

Value

the set object

Examples

```
asSet("a", c(1, 2, 3))
```

chartFontSizes	<i>specify chart font sizes</i>
----------------	---------------------------------

Description

specify chart font sizes

Usage

```
chartFontSizes(  
  upsetjs,  
  font.family = NULL,  
  chart.label = NULL,  
  set.label = NULL,  
  axis.tick = NULL,  
  bar.label = NULL,  
  legend = NULL,  
  title = NULL,  
  description = NULL,  
  export.label = NULL,  
  value.label = NULL  
)
```

Arguments

upsetjs	an object of class upsetjs or upsetjs_proxy
font.family	specify the font family to render
chart.label	font size of the chart label, default: 16px
set.label	font size of the set label, default: 10px
axis.tick	font size of the axis tick, default: 16px
bar.label	font size of the bar label, default: 10px

legend	font size of the legend label, default: 10px
title	font size of the chart title, default: 24px
description	font size of the chart description, default: 16px
export.label	font size of the export label, default: 10px
value.label	font size of the value label, (venn diagram only) default: 12px

Value

the object given as first argument

Examples

```
upsetjs() %>%
  fromList(list(a = c(1, 2, 3), b = c(2, 3))) %>%
  chartFontSizes(font.family = "serif")
```

chartKarnaughMapLabels

specify chart labels

Description

specify chart labels

Usage

```
chartKarnaughMapLabels(upsetjs, title = NULL, description = NULL)
```

Arguments

upsetjs	an object of class upsetjs_kamp or upsetjs_kmap_proxy
title	the chart title
description	the chart description

Value

the object given as first argument

Examples

```
upsetjsKarnaughMap() %>%
  fromList(list(a = c(1, 2, 3), b = c(2, 3))) %>%
  chartKarnaughMapLabels(title = "Test")
```

chartKarnaughMapLayout

specify the chart karnaugh map layout

Description

specify the chart karnaugh map layout

Usage

```
chartKarnaughMapLayout(  
  upsetjs,  
  padding = NULL,  
  bar.padding = NULL,  
  numerical.scale = NULL  
)
```

Arguments

upsetjs	an object of class upsetjs_kmap or upsetjs_kmap_proxy
padding	padding around the plot
bar.padding	padding ratio (default 0.1) for the bar charts
numerical.scale	numerical scale: linear (default) or log

Value

the object given as first argument

Examples

```
upsetjsKarnaughMap() %>%  
  fromList(list(a = c(1, 2, 3), b = c(2, 3))) %>%  
  chartKarnaughMapLayout(padding = 10)
```

chartLabels

specify chart labels

Description

specify chart labels

Usage

```

chartLabels(
  upsetjs,
  title = NULL,
  description = NULL,
  combination.name = NULL,
  combination.name.axis.offset = NULL,
  set.name = NULL,
  set.name.axis.offset = NULL,
  bar.label.offset = NULL
)

```

Arguments

upsetjs	an object of class upsetjs or upsetjs_proxy
title	the chart title
description	the chart description
combination.name	the label for the combination chart
combination.name.axis.offset	the offset of the combination label from the axis in pixel
set.name	the label for the set chart
set.name.axis.offset	the offset of the set label from the axis in pixel
bar.label.offset	the offset of the bar label from the bar in pixel

Value

the object given as first argument

Examples

```

upsetjs() %>%
  fromList(list(a = c(1, 2, 3), b = c(2, 3))) %>%
  chartLabels(set.name = "Test")

```

chartLayout	<i>specify the chart layout</i>
-------------	---------------------------------

Description

specify the chart layout

Usage

```

chartLayout(
  upsetjs,
  height.ratios = NULL,
  width.ratios = NULL,
  padding = NULL,
  bar.padding = NULL,
  dot.padding = NULL,
  numerical.scale = NULL,
  band.scale = NULL,
  set.label.alignment = NULL,
  set.max.scale = NULL,
  combination.max.scale = NULL
)

```

Arguments

<code>upsetjs</code>	an object of class <code>upsetjs</code> or <code>upsetjs_proxy</code>
<code>height.ratios</code>	a vector of length 2 for the ratios between the combination and set plot, e.g. <code>c(0.6, 0.4)</code>
<code>width.ratios</code>	a vector of length 3 for the ratios between set, label, and combination plot, e.g. <code>c(0.3, 0.2, 0.5)</code>
<code>padding</code>	padding around the plot
<code>bar.padding</code>	padding ratio (default 0.1) for the bar charts
<code>dot.padding</code>	padding factor (default 0.7) for the dots
<code>numerical.scale</code>	numerical scale: linear (default) or log
<code>band.scale</code>	band scale: band (default)
<code>set.label.alignment</code>	set label alignment: left, center (default), right
<code>set.max.scale</code>	maximum value for the set scale
<code>combination.max.scale</code>	maximum value for the combination scale

Value

the object given as first argument

Examples

```

upsetjs() %>%
  fromList(list(a = c(1, 2, 3), b = c(2, 3))) %>%
  chartLayout(width.ratios = c(0.4, 0.2, 0.4))

```

chartProps	<i>generic set chart props</i>
------------	--------------------------------

Description

generic set chart props

Usage

```
chartProps(upsetjs, ...)
```

Arguments

upsetjs	an object of class upsetjs or upsetjs_proxy
...	all upsetjs properties in R name notation

Value

the object given as first argument

Examples

```
upsetjs() %>%
  fromList(list(a = c(1, 2, 3), b = c(2, 3))) %>%
  chartProps(theme = "dark")
```

chartStyleFlags	<i>specify chart flags</i>
-----------------	----------------------------

Description

specify chart flags

Usage

```
chartStyleFlags(upsetjs, id = NULL, export.buttons = NULL, class.name = NULL)
```

Arguments

upsetjs	an object of class upsetjs or upsetjs_proxy
id	the optional HTML ID
export.buttons	show export SVG and PNG buttons
class.name	extra CSS class name to the root element

Value

the object given as first argument

Examples

```
upsetjs() %>%
  fromList(list(a = c(1, 2, 3), b = c(2, 3))) %>%
  chartStyleFlags(id = "test")
```

chartTheme	<i>specify theming options</i>
------------	--------------------------------

Description

specify theming options

Usage

```
chartTheme(
  upsetjs,
  theme = NULL,
  selection.color = NULL,
  alternating.color = NULL,
  color = NULL,
  has.selection.color = NULL,
  text.color = NULL,
  hover.hint.color = NULL,
  not.member.color = NULL,
  value.text.color = NULL,
  stroke.color = NULL,
  has.selection.opacity = NULL,
  opacity = NULL,
  filled = NULL
)
```

Arguments

upsetjs	an object of class upsetjs or upsetjs_proxy
theme	theme to use 'dark' or 'light'
selection.color	selection color
alternating.color	alternating background color
color	main bar color
has.selection.color	main color used when a selection is present

text.color	main text color
hover.hint.color	color of the hover hint
not.member.color	color of the dot if not a member
value.text.color	value text color (venn diagram only)
stroke.color	circle stroke color (venn diagram and karnaugh map only)
has.selection.opacity	main opacity used when a selection is present
opacity	main bar opacity
filled	enforce filled circles (venn diagram only)

Value

the object given as first argument

Examples

```
upsetjs() %>%
  fromList(list(a = c(1, 2, 3), b = c(2, 3))) %>%
  chartTheme(theme = "dark")
```

chartVennLabels	<i>specify chart labels</i>
-----------------	-----------------------------

Description

specify chart labels

Usage

```
chartVennLabels(upsetjs, title = NULL, description = NULL)
```

Arguments

upsetjs	an object of class upsetjs_venn or upsetjs_venn_proxy
title	the chart title
description	the chart description

Value

the object given as first argument

Examples

```
upsetjsVennDiagram() %>%
  fromList(list(a = c(1, 2, 3), b = c(2, 3))) %>%
  chartVennLabels(title = "Test")
```

chartVennLayout *specify the chart venn layout*

Description

specify the chart venn layout

Usage

```
chartVennLayout(upsetjs, padding = NULL)
```

Arguments

upsetjs an object of class upsetjs_venn or upsetjs_venn_proxy
padding padding around the plot

Value

the object given as first argument

Examples

```
upsetjsVennDiagram() %>%  
  fromList(list(a = c(1, 2, 3), b = c(2, 3))) %>%  
  chartVennLayout(padding = 10)
```

clearAttributes *clears the list of attributes for incremental updates*

Description

clears the list of attributes for incremental updates

Usage

```
clearAttributes(upsetjs)
```

Arguments

upsetjs an object of class upsetjs or upsetjs_proxy

Value

the object given as first argument

Examples

```
upsetjs() %>%
  fromList(list(a = c(1, 2, 3), b = c(2, 3))) %>%
  clearAttributes()
```

clearQueries	<i>clears the list of queries for incremental updates</i>
--------------	---

Description

clears the list of queries for incremental updates

Usage

```
clearQueries(upsetjs)
```

Arguments

upsetjs an object of class upsetjs or upsetjs_proxy

Value

the object given as first argument

Examples

```
upsetjs() %>%
  fromList(list(a = c(1, 2, 3), b = c(2, 3))) %>%
  addQuery(name = "Q1", color = "red", set = "b") %>%
  clearQueries()
```

extractSetsFromDataFrame	<i>extract the sets from a data frame (rows = elems, columns = sets, cell = contained)</i>
--------------------------	--

Description

extract the sets from a data frame (rows = elems, columns = sets, cell = contained)

Usage

```
extractSetsFromDataFrame(
  df,
  attributes = NULL,
  order.by = "cardinality",
  limit = NULL,
  colors = NULL,
  store.elems = TRUE
)
```

Arguments

df	the data.frame like structure
attributes	the optional column list or data frame
order.by	order intersections by cardinality or degree
limit	limit the ordered sets to the given limit
colors	the optional list with set name to color
store.elems	store the elements in the sets (default TRUE)

fromDataFrame	<i>extract the sets from a data frame (rows = elems, columns = sets, cell = contained)</i>
---------------	--

Description

extract the sets from a data frame (rows = elems, columns = sets, cell = contained)

Usage

```
fromDataFrame(
  upsetjs,
  df,
  attributes = NULL,
  order.by = "cardinality",
  limit = NULL,
  shared = NULL,
  shared.mode = "click",
  colors = NULL,
  c_type = NULL,
  store.elems = TRUE
)
```


Arguments

upsetjs	an object of class upsetjs or upsetjs_proxy
df	the data.frame like structure
attributes	the optional column list or data frame
order.by	order intersections by cardinality or degree
limit	limit the ordered sets to the given limit
shared	a crosstalk shared data frame
shared.mode	whether on 'hover' or 'click' (default) is synced
colors	the optional list with set name to color
c_type	the combination type to use
store.elems	whether to store the set elements within the structures (set to false for big data frames)

Value

the object given as first argument

Examples

```
df <- as.data.frame(list(a = c(1, 1, 1), b = c(0, 1, 1)), row.names = c("a", "b", "c"))
upsetjs() %>% fromDataFrame(df)
```

fromExpression	<i>generates the sets from a lists object that contained the cardinalities of both sets and combinations (&)</i>
----------------	--

Description

generates the sets from a lists object that contained the cardinalities of both sets and combinations (&)

Usage

```
fromExpression(
  upsetjs,
  value,
  symbol = "&",
  order.by = "cardinality",
  colors = NULL,
  type = "intersection"
)
```

Arguments

upsetjs	an object of class upsetjs or upsetjs_proxy
value	the expression list input
symbol	the symbol how to split list names to get the sets
order.by	order intersections by cardinality or name
colors	the optional list with set name to color
type	the type of intersections this data represents (intersection,union,distinctIntersection)

Value

the object given as first argument

Examples

```
upsetjs() %>% fromExpression(list(a = 3, b = 2, `a&b` = 2))
```

fromList *generates the sets from a lists object*

Description

generates the sets from a lists object

Usage

```
fromList(
  upsetjs,
  value,
  order.by = "cardinality",
  limit = NULL,
  shared = NULL,
  shared.mode = "click",
  colors = NULL,
  c_type = NULL
)
```

Arguments

upsetjs	an object of class upsetjs or upsetjs_proxy
value	the list input value
order.by	order intersections by cardinality or name
limit	limit the ordered sets to the given limit
shared	a crosstalk shared data frame
shared.mode	whether on 'hover' or 'click' (default) is synced
colors	the optional list with set name to color
c_type	the combination type to use or "none" for disabling initial generation

Value

the object given as first argument

Examples

```
upsetjs() %>% fromList(list(a = c(1, 2, 3), b = c(2, 3)))
```

```
generateDistinctIntersections
```

configure the generation of the distinct intersections

Description

configure the generation of the distinct intersections

Usage

```
generateDistinctIntersections(
  upsetjs,
  min = 0,
  max = NULL,
  empty = FALSE,
  order.by = "cardinality",
  limit = NULL,
  colors = NULL
)
```

Arguments

upsetjs	an object of class upsetjs or upsetjs_proxy
min	minimum number of sets in an intersection
max	maximum number of sets in an intersection
empty	whether to include empty intersections or not
order.by	order intersections by cardinality, degree, name or a combination of it
limit	limit the number of intersections to the top N
colors	the optional list with set name to color

Value

the object given as first argument

Examples

```
upsetjs() %>%
  fromList(list(a = c(1, 2, 3), b = c(2, 3))) %>%
  generateDistinctIntersections(min = 2)
```

generateIntersections *configure the generation of the intersections*

Description

configure the generation of the intersections

Usage

```
generateIntersections(  
  upsetjs,  
  min = 0,  
  max = NULL,  
  empty = FALSE,  
  order.by = "cardinality",  
  limit = NULL,  
  colors = NULL  
)
```

Arguments

upsetjs	an object of class upsetjs or upsetjs_proxy
min	minimum number of sets in an intersection
max	maximum number of sets in an intersection
empty	whether to include empty intersections or not
order.by	order intersections by cardinality, degree, name or a combination of it
limit	limit the number of intersections to the top N
colors	the optional list with set name to color

Value

the object given as first argument

Examples

```
upsetjs() %>%  
  fromList(list(a = c(1, 2, 3), b = c(2, 3))) %>%  
  generateIntersections(min = 2)
```

generateUnions *configure the generation of the unions*

Description

configure the generation of the unions

Usage

```
generateUnions(  
  upsetjs,  
  min = 0,  
  max = NULL,  
  empty = FALSE,  
  order.by = "cardinality",  
  limit = NULL,  
  colors = NULL  
)
```

Arguments

upsetjs	an object of class upsetjs or upsetjs_proxy
min	minimum number of sets in an union
max	maximum number of sets in an union
empty	whether to include empty intersections or not
order.by	order intersections by cardinality, degree, name or a combination of it
limit	limit the number of intersections to the top N
colors	the optional list with set name to color

Value

the object given as first argument

Examples

```
upsetjs() %>%  
  fromList(list(a = c(1, 2, 3), b = c(2, 3))) %>%  
  generateUnions()
```

getCombinations *extract the vector of combinations*

Description

extract the vector of combinations

Usage

```
getCombinations(upsetjs)
```

Arguments

upsetjs an object of class upsetjs

Value

vector of sets

Examples

```
upsetjs() %>%  
  fromList(list(a = c(1, 2, 3), b = c(2, 3))) %>%  
  getCombinations()
```

getElements *extract the vector of elements*

Description

extract the vector of elements

Usage

```
getElements(upsetjs)
```

Arguments

upsetjs an object of class upsetjs or upsetjs_proxy

Value

vector of elements

Examples

```
upsetjs() %>%  
  fromList(list(a = c(1, 2, 3), b = c(2, 3))) %>%  
  getElements()
```

getSets	<i>extract the vector of sets</i>
---------	-----------------------------------

Description

extract the vector of sets

Usage

```
getSets(upsetjs)
```

Arguments

upsetjs an object of class upsetjs

Value

vector of sets

Examples

```
upsetjs() %>%
  fromList(list(a = c(1, 2, 3), b = c(2, 3))) %>%
  getSets()
```

got	<i>Games of Thrones Character dataset for UpSet.js</i>
-----	--

Description

A dataset containing set information about Game of Thrones characters

Usage

```
got
```

Format

A data frame with 22 rows and 6 variables/sets:

Lannister character part of the Lannister house

Stark character part of the Stark house

female character is female

male character is male

royal character is royal

was.killed character was killed

Source

<https://github.com/jeffreylancaster/game-of-thrones>

interactiveChart	<i>make it an interactive chart</i>
------------------	-------------------------------------

Description

make it an interactive chart

Usage

```
interactiveChart(upsetjs, value = TRUE, events_nonce = FALSE)
```

Arguments

upsetjs	an object of class upsetjs or upsetjs_proxy
value	whether to enable or disable or set the mode: hover, click, contextMenu
events_nonce	whether to enable send a unique once (event date) for each event to prevent deduplication

Value

the object given as first argument

Examples

```
upsetjs() %>%
  fromList(list(a = c(1, 2, 3), b = c(2, 3))) %>%
  interactiveChart()
```

queryLegend	<i>renders a legend for the queries</i>
-------------	---

Description

renders a legend for the queries

Usage

```
queryLegend(upsetjs, value = TRUE)
```

Arguments

upsetjs	an object of class upsetjs or upsetjs_proxy
value	whether to enable or disable

Value

the object given as first argument

Examples

```
upsetjs() %>%
  fromList(list(a = c(1, 2, 3), b = c(2, 3))) %>%
  addQuery(name = "Q1", color = "red", set = "b") %>%
  queryLegend(FALSE)
```

renderUpsetjs	<i>Shiny render bindings for upsetjs</i>
---------------	--

Description

Shiny render bindings for upsetjs

Usage

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

Arguments

expr	An expression that generates an upset
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.

Value

The output of shinyRenderWidget function

setAttributes	<i>set the attributes</i>
---------------	---------------------------

Description

set the attributes

Usage

```
setAttributes(upsetjs, attrs = list())
```

Arguments

upsetjs an object of class upsetjs or upsetjs_proxy
 attrs the attributes to set

Value

the object given as first argument

Examples

```
upsetjs() %>%
  fromList(list(a = c(1, 2, 3), b = c(2, 3))) %>%
  setAttributes(list(
    attr = runif(3),
    cat = as.factor(sample(c("male", "female"), 3, replace = TRUE))
  ))
```

setCombinations *set the vector of combinations*

Description

set the vector of combinations

Usage

```
setCombinations(upsetjs, value)
```

Arguments

upsetjs an object of class upsetjs
 value the vector of combinations

Value

the object given as first argument

Examples

```
upsetjs() %>%
  setCombinations(list(asCombination("a", c(1, 2, 3)))) %>%
  getCombinations()
```

setElements	<i>set the vector of elements</i>
-------------	-----------------------------------

Description

set the vector of elements

Usage

```
setElements(upsetjs, value)
```

Arguments

upsetjs	an object of class upsetjs
value	the vector of elements

Value

the object given as first argument

Examples

```
upsetjs() %>%  
  setElements(c(1, 2, 3, 4, 5)) %>%  
  getElements()
```

setQueryes	<i>set the queries</i>
------------	------------------------

Description

set the queries

Usage

```
setQueryes(upsetjs, queries = list())
```

Arguments

upsetjs	an object of class upsetjs or upsetjs_proxy
queries	the queries to set

Value

the object given as first argument

Examples

```
upsetjs() %>%
  fromList(list(a = c(1, 2, 3), b = c(2, 3))) %>%
  setQueries(list(list(name = "Q1", color = "red", set = "b")))
```

setSelection	<i>sets the selection of the chart</i>
--------------	--

Description

sets the selection of the chart

Usage

```
setSelection(upsetjs, name = NULL)
```

Arguments

upsetjs	an object of class upsetjs or upsetjs_proxy
name	the name of the set to select or a list with name and type

Value

the object given as first argument

Examples

```
upsetjs() %>%
  fromList(list(a = c(1, 2, 3), b = c(2, 3))) %>%
  setSelection("b")
```

setSets	<i>set the vector of sets</i>
---------	-------------------------------

Description

set the vector of sets

Usage

```
setSets(upsetjs, value)
```

Arguments

upsetjs	an object of class upsetjs
value	the vector of sets

Value

the object given as first argument

Examples

```
upsetjs() %>%
  setCombinations(list(asSet("a", c(1, 2, 3)))) %>%
  getSets()
```

upsetjs	<i>Upset.js</i>
---------	-----------------

Description

upsetjs a htmlwidget wrapper around UpSet.js (<https://upset.js.org/>)

Usage

```
upsetjs(
  width = "100%",
  height = NULL,
  elementId = NULL,
  sizingPolicy = upsetjsSizingPolicy()
)
```

Arguments

width	width of the element
height	height of the element
elementId	unique element id
sizingPolicy	htmlwidgets sizing policy object. Defaults to <code>upsetjsSizingPolicy()</code>

Value

An object of class `upsetjs` and `htmlwidget`

Examples

```
upsetjs() %>% fromList(list(a = c(1, 2, 3), b = c(2, 3)))
```

upsetjsDash *create a new upsetjs dash adapter*

Description

create a new upsetjs dash adapter

Usage

```
upsetjsDash(children = NULL, id = NULL, width = NULL, height = NULL)
```

Arguments

children	dash children
id	dash id
width	upsetjs width
height	upsetjs height

Value

the set object

Examples

```
upsetjsDash("u") %>% fromList(list(a = c(1, 2, 3), b = c(2, 3)))
```

upsetjsEulerDiagram *upsetjs - factory for UpSet.js Euler Diagram HTMLWidget*

Description

upsetjs - factory for UpSet.js Euler Diagram HTMLWidget

Usage

```
upsetjsEulerDiagram(
  width = "100%",
  height = NULL,
  elementId = NULL,
  sizingPolicy = upsetjsSizingPolicy()
)
```

Arguments

width	width of the element
height	height of the element
elementId	unique element id
sizingPolicy	htmlwidgets sizing policy object. Defaults to <code>upsetjsSizingPolicy()</code>

Value

An object of class `upsetjs_venn` and `htmlwidget`

Examples

```
upsetjs() %>% fromList(list(a = c(1, 2, 3), b = c(2, 3)))
```

`upsetjsEulerDiagramProxy`

reactive helper to update an upsetjs euler diagram in place

Description

reactive helper to update an upsetjs euler diagram in place

Usage

```
upsetjsEulerDiagramProxy(outputId, session)
```

Arguments

outputId	the id of the upsetjs widget
session	current shiny session

Value

an object of class `upsetjs_proxy`

Examples

```
## Not run:
upsetjsEulerDiagramProxy("upsetjs1", session) %>% setSelection("a")

## End(Not run)
```

upsetjsKarnaughMap *upsetjs - factory for UpSet.js Karnaugh Map HTMLWidget*

Description

upsetjs - factory for UpSet.js Karnaugh Map HTMLWidget

Usage

```
upsetjsKarnaughMap(
  width = "100%",
  height = NULL,
  elementId = NULL,
  sizingPolicy = upsetjsSizingPolicy()
)
```

Arguments

width	width of the element
height	height of the element
elementId	unique element id
sizingPolicy	htmlwidgets sizing policy object. Defaults to upsetjsSizingPolicy()

Value

An object of class upsetjs_venn and htmlwidget

Examples

```
upsetjsKarnaughMap() %>% fromList(list(a = c(1, 2, 3), b = c(2, 3)))
```

upsetjsKarnaughMapProxy *reactive helper to update an upsetjs karnaugh map diagram in place*

Description

reactive helper to update an upsetjs karnaugh map diagram in place

Usage

```
upsetjsKarnaughMapProxy(outputId, session)
```


Arguments

outputId	the id of the upsetjs widget
session	current shiny session

Value

an object of class upsetjs_proxy

Examples

```
## Not run:
upsetjsKarnaughMapProxy("upsetjs1", session) %>% setSelection("a")

## End(Not run)
```

upsetjsOutput	<i>Output and render functions for using UpSet.js within Shiny applications and interactive Rmd documents.</i>
---------------	--

Description

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

Usage

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

Arguments

outputId	output variable to read from
width	Must be a valid CSS unit (like '100%', '800px', 'auto') or a number, which will be coerced to a string and have 'px' appended.
height	see width

Value

An output or render function that enables the use of the widget within Shiny applications.

upsetjsProxy *reactive helper to update an upsetjs inplace*

Description

reactive helper to update an upsetjs inplace

Usage

```
upsetjsProxy(outputId, session)
```

Arguments

outputId	the id of the upsetjs widget
session	current shiny session

Value

an object of class upsetjs_proxy

Examples

```
## Not run:
upsetjsProxy("upsetjs1", session) %>% setSelection("a")

## End(Not run)
```

upsetjsSizingPolicy *upsetjs sizing policy*

Description

upsetjs sizing policy

Usage

```
upsetjsSizingPolicy(
  defaultWidth = "100%",
  defaultHeight = 400,
  padding = 0,
  browser.fill = TRUE,
  ...
)
```

Arguments

defaultWidth	defaults to "100%" of the available width
defaultHeight	defaults to 400px tall
padding	defaults to 0px
browser.fill	defaults to TRUE
...	all other arguments supplied to <code>htmlwidgets::sizingPolicy</code>

Value

An `htmlwidgets::sizingPolicy` object

Examples

```
upsetjs(sizingPolicy = upsetjsSizingPolicy(padding = 20)) %>%
  fromList(list(a = c(1, 2, 3), b = c(2, 3)))
```

`upsetjsVennDiagram` *upsetjs - factory for UpSet.js Venn Diagram HTMLWidget*

Description

upsetjs - factory for UpSet.js Venn Diagram HTMLWidget

Usage

```
upsetjsVennDiagram(
  width = "100%",
  height = NULL,
  elementId = NULL,
  sizingPolicy = upsetjsSizingPolicy()
)
```

Arguments

width	width of the element
height	height of the element
elementId	unique element id
sizingPolicy	htmlwidgets sizing policy object. Defaults to <code>upsetjsSizingPolicy()</code>

Value

An object of class `upsetjs_venn` and `htmlwidget`

Examples

```
upsetjs() %>% fromList(list(a = c(1, 2, 3), b = c(2, 3)))
```

upsetjsVennDiagramProxy

reactive helper to update an upsetjs venn diagram in place

Description

reactive helper to update an upsetjs venn diagram in place

Usage

```
upsetjsVennDiagramProxy(outputId, session)
```

Arguments

outputId	the id of the upsetjs widget
session	current shiny session

Value

an object of class upsetjs_proxy

Examples

```
## Not run:  
upsetjsVennDiagramProxy("upsetjs1", session) %>% setSelection("a")  
  
## End(Not run)
```

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