Package 'jsTree'

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Title Create Interactive Trees with the 'jQuery' 'jsTree' Plugin

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Description Create and customize interactive trees using the 'jQuery' 'jsTree' <https://www.jstree.com/> plugin library and the 'htmlwidgets' package. These trees can be used directly from the R console, from 'RStudio', in Shiny apps and R Markdown documents.

Depends R (>= 2.10)

Imports htmlwidgets,jsonlite,htmltools,data.table

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Encoding UTF-8

LazyData true

URL https://github.com/yonicd/jsTree

BugReports https://github.com/yonicd/jsTree/issues

RoxygenNote 7.1.1

Suggests testthat, covr,knitr,rmarkdown

VignetteBuilder knitr

NeedsCompilation no

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R topics documented:

`jsTree` *Htmlwidget for the jsTree Javascript library*

Description

Htmlwidget for the jsTree Javascript library

Usage

```
jsTree(
  obj,
  sep = "/",
  sep_fixed = TRUE,
  core = NULL,
  tooltips = NULL,
  nodestate = NULL,
  ...,
  width = NULL,
  height = NULL,
  elementId = NULL,
  file = tempfile(pattern = "jstree-", fileext = ".html"),
  browse = TRUE
)
```

Arguments

`obj`	character, vector of directory tree
`sep`	character, separator for `'obj'` which defines the hierarchy, Default: `'/'`.
`sep_fixed`	boolean, to treat the sep character(s) as fixed when seperating, Default: TRUE.
`core`	list, additional parameters to pass to core of jsTree, default: NULL
`tooltips`	character, named vector of tooltips for elements in the tree, Default: NULL
`nodestate`	boolean, vector the length of obj that initializes tree open to true values, Default: NULL
`...`	parameters that are passed to the vcs package (see details)
`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.
`elementId`	The input slot that will be used to access the element.
`file`	character, html filename to save output to, Default: tempfile(pattern = 'jstree-',fileext = '.html').
`browse`	whether to open a browser to view the html, Default: TRUE

Details

valid core objects can be found in the jsTree javascript library api homepage.

All objects that are children of 'jstree.defaults.core' are valid inputs, except 'jstree.defaults.core.data' which is constructed internally by the R function call. The R list object is translated internally into a valid javascript object.

parameters in ... that can be passed on to the vcs package are:

remote_repo a character object that defines the remote user/repository

remote_branch character object that defines the branch of remote_repo (ussually 'master')

vcs character object that defines for vcs which version control system to attach (github, bitbucket, svn)

preview.search character object that defines a search term to initialize to in the preview pane search-box

if **remote_repo** is given a preview pane of a selected file from the tree will appear to the right of the tree

preview.search is only relevant for vcs in (github,bitbucket) where file previewing is available

For more information on the vcs package go to https://github.com/yonicd/vcs

Examples

```
if(interactive()){

data(states)
data(state_bird)

#collapse columns to text (with sep "/")
nested_string <- apply(states,1,paste,collapse='/')
jsTree(nested_string)

#pass additional parameters to core
jsTree(nested_string,core=list(multiple=FALSE))

# Add tooltips to state names with the state bird
jsTree(nested_string,tooltips = state_bird)

#initialize tree with checked boxes for certain fields
nodestate1 <- states$variable=='Area'
jsTree(nested_string,nodestate=nodestate1)

nodestate2 <- states$variable=='Area'&grepl('^M',states$state.name)
jsTree(nested_string,nodestate=nodestate2)

nodestate3 <- states$variable %in% c('Murder') & states$value >= 10
nodestate4 <- states$variable %in% c('HS.Grad') & states$value <= 55
jsTree(nested_string,nodestate=nodestate3|nodestate4)

#change the order of the hierarchy
nested_string2 <- apply(states[,c(4,1,2,3,5)],1,paste,collapse='/')
```

```
jsTree(nested_string2)

#use jsTree to visualize folder structure

jsTree(list.files(full.names = TRUE,recursive = FALSE))

## Not run:
# This may be too long for example if running from ~.
jsTree(list.files(full.names = TRUE,recursive = TRUE))

## End(Not run)
}
```

`jsTree-shiny` *Shiny bindings for jsTree*

Description

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

Usage

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

renderJsTree(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 jsTree
`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.

states *State data*

Description

state dataset melted into a data.frame

Usage

```
states
```

Format

A data frame with 400 rows and 5 variables:

`state.region` factor State Region

`state.division` factor State Sub Region

`state.name` character State Name

`variable` factor Characteristic

`value` double Characteristic Value

state_bird *Character vector of state birds*

Description

Character vector of state birds

Usage

```
state_bird
```

Format

A character vector of length 50

Source

https://state.1keydata.com/state-birds.php

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