Package ‘flipbookr’

October 13, 2022

Type Package

Title Parses Code, Creates Partial Code Builds, Delivers Code Movie

Version 0.1.0

Maintainer Evangeline Reynolds <evangeline.mae@gmail.com>

Description Flipbooks present code step-by-step and side-by-side with its output. ‘flipbookr’ helps creators build flipbooks efficiently because code pipelines are automatically parsed and prepped for presentation as flipbooks.

Encoding UTF-8

Imports dplyr, magrittr, tibble, stringr, tidyr, stringi, knitr, glue, purrr, rmarkdown

RoxygenNote 7.1.1

Suggests testthat

License MIT + file LICENSE

NeedsCompilation no

Author Evangeline Reynolds [cre, aut], Garrick Aden-Buie [aut], Emi Tanaka [aut]

Repository CRAN

Date/Publication 2021-05-31 11:40:06 UTC

R topics documented:

chunk_reveal ................................................................. 2
text_reveal ................................................................. 4

Index 6
Description

Function takes code from referenced code chunk and returns partial code sequence to series of code chunks separated by slide breaks. Upon compiling you get step-by-step code walk-through.

Usage

```r
chunk_reveal(
  chunk_name = NULL,
  break_type = "auto",
  left_assign = FALSE,
  left_assign_add = NULL,
  lang = "r",
  omit = "#OMIT",
  code_seq = NULL,
  code_seq_lag = NULL,
  code_seq_lag2 = NULL,
  code_seq_target = NULL,
  code_seq_start = NULL,
  func_seq = NULL,
  num_breaks = NULL,
  display_type = c("code", "output"),
  title = "",
  md = NULL,
  md2 = NULL,
  replacements = NULL,
  replace = NULL,
  replacements2 = replacements,
  replace2 = replace,
  replacements3 = replacements,
  replace3 = replace,
  widths = NULL,
  float = "left",
  chunk_options = "",
  color = c("black", "black", "black"),
  font_size_code = "80%"
)
```

Arguments

- `chunk_name` a character string referring to the name of the source chunk for the flipbooking
- `break_type` "auto" is default finding appropriate breakpoints, "user" can be used with the special comment message #BREAK within the source code chunk, "non_seq" can be used for non sequential display of code with special comment messages
#BREAK2 (will show in second frame) and #BREAK3 (will show in third frame), an integer input can be given too, to simply display the source code chunk multiple times which is appropriate for observing multiple realizations of sampling, "rotate" allows cycling through different lines of code, the comment #ROTATE is used for lines to be cycled through

left_assign  a logical, default is FALSE, if TRUE will print the object created in the upper left hand corner of the source code chunk at the end of each partial reveal

left_assign_add  a character string containing function for table formatting in output, for left assign case only

lang  a character string indicating what programming language will be used. "r" is default; "python" is experimental

omit  a character string, as a comment, indicating lines that should be omitted, defaults to "#OMIT"

code_seq  a list of code as character strings, the list will automatically be created based on the previous three arguments or the user can input code manually

code_seq_lag  a list of code as character strings, lagged, the list will automatically be created based on the previous three arguments or the user can input code manually

code_seq_lag2  a list of code as character strings, twice lagged, the list will automatically be created based on the previous three arguments or the user can input code manually

code_seq_target  a list of code as character strings, the length of code_seq, but only containing the last element of code_seq

code_seq_start  a list of code as character strings, the length of code_seq, but only containing the first element of code_seq

func_seq  a character string with function names; default is NULL and will reflect whatever function is highlighted from the code sequence

num_breaks  an integer, automatically calculated based on the length of the the code_seq list

display_type  a character string vector, the default is c("code", "output") for code and output to be displayed side-by-side, "output" will create spawned code chunks to only display output, "code" will create spawned code chunks only to show the partial code builds; "func" and "md" may also be displayed

title  a character string that may contain a title for the frames of the flipbook; this may included header info "## My Title" for example is a second level markdown title in Xaringan

md  a character string vector that contains markdown; each element will be shown on a separate slide in the display panel "md" (see display_type)

md2  a character string vector that contains markdown; each element will be shown on a separate slide in the display panel "md" (see display_type)

replacements  a character string vector to be replace the string indicated by the 'replace' parameter

replace  a character string to be replaced in the input code sequentially with the replacement vector elements
replacements2 a character string vector to be replace the string indicated by the 'replace2' parameter
replace2 a character string to be replaced in the input code sequentially with the replacement2 vector elements
replacements3 a character string vector to be replace the string indicated by the 'replace3' parameter
replace3 a character string to be replaced in the input code sequentially with the replacement3 vector elements
widths a numeric vector containing relative widths for panels
float defines css float parameter, defaults to "left"
chunk_options input 'knitr' code chunk options as a string, default to empty string "", useful input might be "fig.height = 4, fig.width = 3"
color defines css parameter, defaults to "black"
font_size_code this ain’t working yet!

Value

a string object is returned will only work in 'knitr' context

Examples

chunk_reveal(chunk_name = NULL, code_seq = list("1 + 1", "1 + 2"))

description

Function takes character string, splits it based on delimiter, and returns each element of the resultant vector on its own slide

Usage

text_reveal(
  text,
  sep = " ",
  md_prefix = "#",
  sep_replace = "",
  slide_break = "---",
  class = "class: inverse, middle, center"
)
text_reveal

Arguments

text a character string to be split and delivered piece-wise to a slide
sep a character string to delimit the split of the input text
md_prefix a character string prefix to each markdown element, defaults to "#"
sep_replace a character string that will replace the delimiter, defaults to empty string ""
slide_break a character string containing slide break characters, defaults to "—" for xaringan slideshows
class a character string in which you can set the class, defaults to "class: inverse, middle, center"

Value

knit text to be interpreted as slides

Examples

text_reveal("Hello world", sep = " ")
Index

chunk_reveal, 2

text_reveal, 4