

Package ‘sassy’

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Type Package

Title Makes 'R' Easier for 'SAS®' Programmers

Version 1.0.4

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Description A meta-package that aims to make 'R' easier for 'SAS®' programmers.

This set of packages brings many familiar concepts to 'R', including data libraries, data dictionaries, formats and format catalogs, a data step, and a traceable log. The 'flagship' package is a reporting package that can output in text, rich text, and 'PDF' file formats.

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Encoding UTF-8

LazyData true

Depends R (>= 4.0.0)

URL <https://r-sassy.org>

BugReports <https://github.com/dbosak01/sassy/issues>

Suggests testthat, knitr, rmarkdown, tidylog, magrittr

Imports logr, fmrtr, libr, reporter

RoxygenNote 7.1.1

VignetteBuilder knitr

NeedsCompilation no

Repository CRAN

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Description

The **sassy** package is a meta-package that installs a set of functions that aim to make R easier for programmers whose primary experience is with SAS® software. These functions provide the ability to create data libraries, format catalogs, data dictionaries, a traceable log, and includes reporting capabilities reminiscent of those found in SAS®. These packages were written independently, and the authors have no association with, approval of, or endorsement by SAS® Institute.

Packages Included

The packages included in the **sassy** meta-package are as follows:

- **libr**: Define a libname, view data dictionaries, and simulate a data step.
- **fmtr**: Create a format catalog and apply formats to a data frame or vector.
- **logr**: Generate a traceable log.
- **reporter**: Write reports and output in text, RTF, and PDF.

Examples

```
#####
####          Example: Simple Data Listing          #####
#####
library(sassy)
library(magrittr)

options("logr.notes" = FALSE)

# Get path to temp directory
tmp <- tempdir()

# Get path to sample data
pkg <- system.file("extdata", package = "sassy")

# Open log
lgpth <- log_open(file.path(tmp, "example1.log"))

sep("Get Data")

# Define data library
libname(sdtm, pkg, "csv") %>% put()

# Load library into workspace
lib_load(sdtm)

sep("Write Report")
```

```
# Define table object
tbl <- create_table(sdtm.DM) %>%
  define(USUBJID, id_var = TRUE)

# Construct report path
pth <- file.path(tmp, "output/l_dm.rtf") %>% put()

# Define report object
rpt <- create_report(pth, output_type = "RTF") %>%
  page_header("Sponsor: Company", "Study: ABC") %>%
  titles("Listing 1.0", "SDTM Demographics") %>%
  add_content(tbl, align = "left") %>%
  page_footer(Sys.time(), "CONFIDENTIAL", "Page [pg] of [tpg]")

# Write report to file system
write_report(rpt) %>% put()

# Unload data
lib_unload(sdtm)

# Close log
log_close()

# Print log to console
writeLines(readLines(lgpth, encoding = "UTF-8"))

# View report
# file.show(pth)
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