

Package ‘rjdmardown’

October 1, 2020

Type Package

Title 'rmarkdown' Extension for Formatted 'RJDemetra' Outputs

Version 0.2.0

Description Functions to have nice 'rmarkdown' outputs of the seasonal and trading day adjustment models made with 'RJDemetra'.

Depends R (>= 3.1.1),

Imports RJDemetra, knitr, kableExtra, magrittr

License EUPL

URL <https://github.com/AQLT/rjdmardown>

LazyData TRUE

BugReports <https://github.com/AQLT/rjdmardown/issues>

SystemRequirements Java SE 8 or higher

Encoding UTF-8

RoxygenNote 7.1.0

VignetteBuilder knitr

Suggests rmarkdown, ggdemetra

NeedsCompilation no

Author Alain Quartier-la-Tente [aut, cre]
(<<https://orcid.org/0000-0001-7890-3857>>)

Maintainer Alain Quartier-la-Tente <alain.quartier@yahoo.fr>

Repository CRAN

Date/Publication 2020-10-01 19:20:03 UTC

R topics documented:

create_rmd	2
print_decomposition	5
print_diagnostics	6
print_preprocessing	7

Index	9
--------------	----------

`create_rmd`*Create and compile 'rmarkdown' file*

Description

Function to create a 'rmarkdown' file with all the output and render it

Usage

```
create_rmd(  
  x,  
  output_file,  
  output_format = "pdf_document",  
  preprocessing_fun = print_preprocessing,  
  decomposition_fun = print_decomposition,  
  diagnostics_fun = print_diagnostics,  
  title = "Seasonal adjustment summary",  
  knitr_chunk_opts = list(fig.pos = "h", echo = FALSE, results = "asis", fig.cap =  
    "S-I Ratio"),  
  ...  
)  
  
## S3 method for class 'SA'  
create_rmd(  
  x,  
  output_file,  
  output_format = "pdf_document",  
  preprocessing_fun = print_preprocessing,  
  decomposition_fun = print_decomposition,  
  diagnostics_fun = print_diagnostics,  
  title = "Seasonal adjustment summary",  
  knitr_chunk_opts = list(fig.pos = "h", echo = FALSE, results = "asis", fig.cap =  
    "S-I Ratio"),  
  ...  
)  
  
## S3 method for class 'jSA'  
create_rmd(  
  x,  
  output_file,  
  output_format = "pdf_document",  
  preprocessing_fun = print_preprocessing,  
  decomposition_fun = print_decomposition,  
  diagnostics_fun = print_diagnostics,  
  title = "Seasonal adjustment summary",  
  knitr_chunk_opts = list(fig.pos = "h", echo = FALSE, results = "asis", fig.cap =  
    "S-I Ratio"),
```

```
    ...
  )

## S3 method for class 'workspace'
create_rmd(
  x,
  output_file,
  output_format = "pdf_document",
  preprocessing_fun = print_preprocessing,
  decomposition_fun = print_decomposition,
  diagnostics_fun = print_diagnostics,
  title = "Seasonal adjustment summary",
  knitr_chunk_opts = list(fig.pos = "h", echo = FALSE, results = "asis", fig.cap =
    "S-I Ratio"),
  ...
)

## S3 method for class 'multiprocessing'
create_rmd(
  x,
  output_file,
  output_format = "pdf_document",
  preprocessing_fun = print_preprocessing,
  decomposition_fun = print_decomposition,
  diagnostics_fun = print_diagnostics,
  title = "Seasonal adjustment summary",
  knitr_chunk_opts = list(fig.pos = "h", echo = FALSE, results = "asis", fig.cap =
    "S-I Ratio"),
  ...,
  workspace
)

## S3 method for class 'sa_item'
create_rmd(
  x,
  output_file,
  output_format = "pdf_document",
  preprocessing_fun = print_preprocessing,
  decomposition_fun = print_decomposition,
  diagnostics_fun = print_diagnostics,
  title = "Seasonal adjustment summary",
  knitr_chunk_opts = list(fig.pos = "h", echo = FALSE, results = "asis", fig.cap =
    "S-I Ratio"),
  ...,
  workspace
)
```

Arguments

x	the object to render: it can be a "SA", "jSA", "sa_item", "multiprocessing" or "workspace" object
output_file	the name of the output 'rmarkdown' file.
output_format	the R Markdown output format to convert to: "pdf_document" for a pdf output, "html_document" for a HTML output. See render for more details.
preprocessing_fun	the function used to print the preprocessing. print_preprocessing by default.
decomposition_fun	the function used to print the decomposition print_decomposition by default.
diagnostics_fun	the function used to print the diagnostics print_diagnostics by default.
title	the title of the R Markdown document.
knitr_chunk_opts	options for R code chunks. See opts_chunk for more details.
...	other arguments to pass to render .
workspace	the workspace. Only used when x is a "sa_item" or "multiprocessing".

Examples

```

ipi <- RJDemetra::ipi_c_eu[, "FR"]
jsa_x13 <- RJDemetra::jx13(ipi)

output_file <- tempfile(fileext = ".Rmd")
create_rmd(jsa_x13, output_file, output_format = "pdf_document")
# To directly open the pdf:
browseURL(sub(".Rmd", ".pdf", output_file, fixed = TRUE))

# To create a pdf from a workspace:
jsa_ts <- jtramoSeats(ipi)
wk <- new_workspace()
mp <- new_multiprocessing(wk, "sa1")
add_sa_item(wk, "sa1", jsa_x13, "X13")
add_sa_item(wk, "sa1", jsa_ts, "TramoSeats")

# It's important to compute the workspace to be able
# to import the models
compute(wk)

output_file <- tempfile(fileext = ".Rmd")
create_rmd(wk, output_file,
           output_format = c("pdf_document", "html_document"),
           output_options = list(toc = TRUE,
                                number_sections = TRUE))

# To open the file:
browseURL(sub(".Rmd", ".pdf", output_file, fixed = TRUE))

```

```
browseURL(sub(".Rmd", ".html", output_file, fixed = TRUE))
```

print_decomposition *Print the decomposition*

Description

Function to print the decomposition model

Usage

```
print_decomposition(  
  x,  
  format = knitr::opts_knit$get("rmarkdown.pandoc.to"),  
  plot = TRUE,  
  digits = 3,  
  decimal.mark = getOption("OutDec"),  
  booktabs = TRUE,  
  ...  
)
```

Arguments

x	the object to print.
format	output format: "latex" or "html".
plot	boolean indicating whether to plot or not the S-I Ratio.
digits	number of digits after the decimal point.
decimal.mark	the character to be used to indicate the numeric decimal point.
booktabs	boolean indicating whether to use or not the booktabs package (when format = "latex").
...	arguments passed to plot.decomposition_X11 or plot.decomposition_SEATS .

Examples

```
ipi <- RJDemetra::ipi_c_eu[, "FR"]  
  
jsa_x13 <- RJDemetra::jx13(ipi)  
print_decomposition(jsa_x13, format = "latex")  
  
sa_ts <- RJDemetra::jtramoseats(ipi)  
print_decomposition(sa_ts, format = "html")
```

print_diagnostics *Print the diagnostics*

Description

Function to print diagnostics tests on the quality of the pre-processing and the decomposition

Usage

```
print_diagnostics(
  x,
  format = knitr::opts_knit$get("rmarkdown.pandoc.to"),
  signif.stars = TRUE,
  tests = c("mean", "skewness", "kurtosis", "ljung box",
    "ljung box (residuals at seasonal lags)", "ljung box (squared residuals)",
    "qs test on sa", "qs test on i", "f-test on sa (seasonal dummies)",
    "f-test on i (seasonal dummies)", "Residual seasonality (entire series)",
    "Residual seasonality (last 3 years)", "f-test on sa (td)", "f-test on i (td)"),
  digits = 3,
  decimal.mark = getOption("OutDec"),
  booktabs = TRUE,
  ...
)
```

Arguments

x	the object to print.
format	output format: "latex" or "html".
signif.stars	logical; if TRUE, p-values are additionally encoded visually as 'significance stars' in order to help scanning of long coefficient tables
tests	characters containing the names of the tests to print.
digits	number of digits after the decimal point.
decimal.mark	the character to be used to indicate the numeric decimal point.
booktabs	boolean indicating whether to use or not the booktabs package (when format = "latex").
...	unused arguments.

Examples

```
ipi <- RJDemetra::ipi_c_eu[, "FR"]

jsa_x13 <- RJDemetra::jx13(ipi)
print_diagnostics(jsa_x13, format = "latex")
```

```
sa_ts <- RJDemetra::tramoseats(ipi)
print_diagnostics(sa_ts, format = "html")
```

print_preprocessing *Print the pre-processing model*

Description

Function to print the pre-processing model

Usage

```
print_preprocessing(
  x,
  format = knitr::opts_knit$get("rmarkdown.pandoc.to"),
  signif.stars = TRUE,
  digits = 3,
  decimal.mark = getOption("OutDec"),
  booktabs = TRUE,
  summary = TRUE,
  likelihood = TRUE,
  arima = TRUE,
  regression = TRUE,
  ...
)
```

Arguments

x	the object to print.
format	output format: "latex" or "html".
signif.stars	logical; if TRUE, p-values are additionally encoded visually as 'significance stars' in order to help scanning of long coefficient tables
digits	number of digits after the decimal point.
decimal.mark	the character to be used to indicate the numeric decimal point.
booktabs	boolean indicating whether to use or not the booktabs package (when format = "latex").
summary	boolean indicating whether to use or not the summary section.
likelihood	boolean indicating whether to use or not the likelihood section.
arima	boolean indicating whether to use or not the arima section.
regression	boolean indicating whether to use or not the regression section.
...	unused.

Examples

```
ipi <- RJDemetra::ipi_c_eu[, "FR"]

sa_x13 <- RJDemetra::jx13(ipi)
print_preprocessing(sa_x13, format = "latex")

sa_ts <- RJDemetra::tramoseats(ipi)
print_preprocessing(sa_ts, format = "html")
```

Index

`create_rmd`, 2

`opts_chunk`, 4

`plot.decomposition_SEATS`, 5

`plot.decomposition_X11`, 5

`print_decomposition`, 4, 5

`print_diagnostics`, 4, 6

`print_preprocessing`, 4, 7

`render`, 4