Package 'rjdmarkdown'

October 4, 2023

Type Package

Title 'rmarkdown' Extension for Formatted 'RJDemetra' Outputs

Version 0.2.2

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

SystemRequirements Java (>= 8)

Depends R (>= 3.1.1), RJDemetra

Imports knitr, kableExtra, magrittr

License EUPL

URL https://github.com/AQLT/rjdmarkdown

BugReports https://github.com/AQLT/rjdmarkdown/issues

Encoding UTF-8

RoxygenNote 7.2.3

VignetteBuilder knitr

Suggests rmarkdown, ggdemetra

NeedsCompilation no

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R topics documented:

create_rmd *Create and render '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. If preprocessing_fun = NULL the function is not used.
decomposition_fun	the function used to print the decomposition print_decomposition by default. If decomposition_fun = NULL the function is not used.
diagnostics_fun	the function used to print the diagnostics print_diagnostics by default. If diagnostics_fun = NULL the function is not used.
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")
```

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