Package 'EviewsR'

January 26, 2026

Type Package

Title A Seamless Integration of 'EViews' and R

Version 0.1.7

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Description It allows running 'EViews' (<https://eviews.com>) program from R, R Markdown and Quarto documents. 'EViews' (Econometric Views) is a statistical software for Econometric analysis. This package integrates 'EViews' and R and also serves as an 'EViews' Knit-Engine for 'knitr' package. Write all your 'EViews' commands in R, R Markdown or Quarto documents. For details, please consult our peer-review article Mati S., Civcir I. and Abba S.I (2023) <doi:10.32614/RJ-2023-045>.

Depends R (>= 3.4.0)

Imports knitr (>= 1.20), magrittr, xts, zoo, Rdpack

Suggests rmarkdown, testthat, ggplot2

SystemRequirements EViews (>= 8)

License GPL

URL https://CRAN.R-project.org/package=EviewsR

BugReports https://github.com/sagirumati/EviewsR/issues

Encoding UTF-8

VignetteBuilder knitr

RoxygenNote 7.3.3

NeedsCompilation no

Repository CRAN

Date/Publication 2026-01-26 16:40:14 UTC

Config/testthat/edition 3

RdMacros Rdpack

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`EviewsR-package` *EviewsR: A Seamless Integration of 'EViews' and R*

Description

It allows running 'EViews' (https://eviews.com) program from R, R Markdown and Quarto documents. 'EViews' (Econometric Views) is a statistical software for Econometric analysis. This package integrates 'EViews' and R and also serves as an 'EViews' Knit-Engine for 'knitr' package. Write all your 'EViews' commands in R, R Markdown or Quarto documents. For details, please consult our peer-review article Mati S., Civcir I. and Abba S.I (2023) doi:10.32614/RJ2023045.

Author(s)

Maintainer: Sagiru Mati <sagirumati@gmail.com> (ORCID)

See Also

Useful links:

- https://CRAN.R-project.org/package=EviewsR
- Report bugs at https://github.com/sagirumati/EviewsR/issues

Other important functions: create_object(), eng_eviews(), eviews_graph(), eviews_import(), eviews_pagesave(), eviews_wfcreate(), eviews_wfsave(), exec_commands(), export(), export_dataframe(), import(), import_equation(), import_graph(), import_kable(), import_series(), import_table(), import_workfile(), rwalk(), set_eviews_path()

`create_object` *Create an* `EViews` *object on an existing workfile*

Description

Use this function in R, R Markdown or Quarto to create an `EViews` object on an existing workfile.

Usage

```
create_object(
  wf = "",
  page = "",
  action = "",
  action_opt = "",
  object_name = "",
  view_or_proc = "",
  options_list = "",
  arg_list = "",
  object_type = "",
  options = "",
  expression = ""
)
```

Arguments

`wf`	Object or a character string representing the name of an `EViews` workfile.
`page`	Object or a character string representing the name of an `EViews` workfile page.
`action`	Any valid `EViews` command for `EViews` object declaration, like `freeze`, `do`, `equation`, `table`.
`action_opt`	An option that modifies the default behaviour of the `EViews` action.
`object_name`	The name of the `EViews` object to be acted upon.
`view_or_proc`	The `EViews` object view or procedure to be performed.
`options_list`	An option that modifies the default behaviour of the `EViews` view or procedure.
`arg_list`	A list of `EViews` view or procedure arguments.
`object_type`	EViews object type such as `series`, `equation`.
`options`	Options for the `object_type`.
`expression`	Value to be assigned to the object

Value

An EViews workfile

See Also

Other important functions: EviewsR-package, eng_eviews(), eviews_graph(), eviews_import(), eviews_pagesave(), eviews_wfcreate(), eviews_wfsave(), exec_commands(), export(), export_dataframe(), import(), import_equation(), import_graph(), import_kable(), import_series(), import_table(), import_workfile(), rwalk(), set_eviews_path()

Examples

```
library(EviewsR)
## Not run:
demo(exec_commands)

create_object(wf="exec_commands",action="equation",
object_name="create_object",view_or_proc="ls",arg_list="y ar(1)")

create_object(wf="exec_commands",object_name="x1",
object_type="series",expression="y^2")


## End(Not run)
```

---

eng_eviews *EviewsR: A Seamless Integration of R and EViews*

Description

This package runs on top of knitr to facilitate communication with EViews. Run EViews scripts from R Markdown document.

Usage

```
eng_eviews(options)
```

Arguments

options	Chunk options, as provided by knitr during chunk execution. Chunk option for this is eviews

Details

The EViews engine can be activated via

```
knitr::knit_engines$set(eviews = EviewsR::eng_eviews)
```

This will be set within an R Markdown document's setup chunk.

Value

Set of EViews codes

Author(s)

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- SMATI Academy

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See Also

Other important functions: EviewsR-package, create_object(), eviews_graph(), eviews_import(), eviews_pagesave(), eviews_wfcreate(), eviews_wfsave(), exec_commands(), export(), export_dataframe(), import(), import_equation(), import_graph(), import_kable(), import_series(), import_table(), import_workfile(), rwalk(), set_eviews_path()

Examples

```
knitr::knit_engines$set(eviews = EviewsR::eng_eviews)
library(EviewsR)
```

eviews_graph *Create an* EViews *graph in R, R Markdown and Quarto.*

Description

Use this function to create an EViews graph in R and R Markdown

Usage

```
eviews_graph(
  wf = "",
  page = "*",
  series = "*",
  group = FALSE,
  graph_command = "line",
  graph_options = "",
  mode = "overwrite",
  graph_procs = "",
  datelabel = "",
  save_options = "",
  save_path = "",
  frequency = "m",
  start_date = "",
  save_copy = TRUE
)
```

Arguments

wf	Object or a character string representing the name of an EViews workfile.
page	Object or a character string representing the name of an EViews workfile page.
series	A vector of names or wildcard expressions for series object(s) contained in an EViews workfile. An R dataframe is also acceptable.
group	Logical, whether to use group view in EViews, that is merge two or more graphs on one page. Setting group=FALSE produces EViews graph for each series separately.
graph_command	Object or a character string of any of the acceptable EViews graphical commands, such as line, bar, pie.
graph_options	Object or a character string of any of the acceptable EViews graphical options, such as "", m, s.
mode	Set mode="overwrite" to overwrite existing EViews graph objects that match the new EViews graph object to be created on the workfile. Set mode="" to avoid overwriting exising EViews graph object.
graph_procs	A vector containing EViews graph procs such as datelabel, align
datelabel	A vector containing EViews axis label formats such as format("YY"). Using datelabel in graph_procs overwrites this argument.

save_options	A vector of options to be passed to EViews save command. It can take values like "t=png",-c and so on.
save_path	Object or a character string representing the path to the folder to save the EViews graphs. The current working directory is the default save_path. Specify the save_path only if you want the EViews graphs to live in different path from the current working directory.
frequency	Object or a character string representing the frequency of a workfile page to be created. Only letters accepted by EViews are allowed. For example u for undated, a for annual, m for monthly and so on.
start_date	Object or a character string representing the start date. It should be left blank for undated (when the frequency is u).
save_copy	Logical. Whether to save the copy of the graph objects.

Value

An EViews workfile

See Also

Other important functions: EviewsR-package, create_object(), eng_eviews(), eviews_import(), eviews_pagesave(), eviews_wfcreate(), eviews_wfsave(), exec_commands(), export(), export_dataframe(), import(), import_equation(), import_graph(), import_kable(), import_series(), import_table(), import_workfile(), rwalk(), set_eviews_path()

Examples

```
library(EviewsR)
## Not run:
demo(exec_commands)

eviews_graph(wf="exec_commands",page = "eviewspage1",series="x y",mode = "overwrite",
graph_options = "m")

# Create graph(s) from dataframe

Data=data.frame(x=cumsum(rnorm(100)),y=cumsum(rnorm(100)))

eviews_graph(series=Data,start_date=1990,frequency="m")

# Create graphs in one frame (group=TRUE)

eviews_graph(series=Data,group=TRUE,start_date="1990Q4",frequency="Q")

## End(Not run)
```

eviews_import *Import data to* EViews *workfile*

Description

Use this function in R, R Markdown and Quarto to import data to EViews workfile.

Usage

```
eviews_import(
  source_description = "",
  wf = "",
  type = "",
  options = "resize",
  smpl_string = "@all",
  genr_string = "",
  rename_string = "",
  frequency = "",
  start_date = "",
  id = "",
  destid = "",
  append = FALSE,
  save_path = ""
)
```

Arguments

source_description	Description of the file from which the data is to be imported. The specification of the description is usually just the path and file name of the file.
wf	Object or a character string representing the name of an EViews workfile.
type	Optional. Specify the file type, it can values allowed by EViews import commands like access, text. For the most part, you should not need to specify a "type=" option as EViews will automatically determine the type from the filename.
options	Optional.Specify the EViews options for import command like resize, link, page=page_name.
smpl_string	Optional. Specify the sample to be used for the data import.
genr_string	Optional. Any valid EViews series creation expression to be used to generate a new series in the workfile as part of the import procedure.
rename_string	Optional. Pairs of old object names followed by the new name to be used to rename some of the imported series.
frequency	Object or a character string representing the frequency of a workfile page to be created. Only letters accepted by EViews are allowed. For example u for undated, a for annual, m for monthly and so on.

start_date	Object or a character string representing the start date. It should be left blank for undated (when the frequency is u).
id	Name of EViews ID series. Required for EViews Match-Merge Import.
destid	Name of the destination ID. Required for EViews Match-Merge Import.
append	Logical, whether to append to the bottom of the EViews workfile page or not.
save_path	Specify the path to save the Eviews workfile

Value

An EViews workfile

See Also

Other important functions: EviewsR-package, create_object(), eng_eviews(), eviews_graph(), eviews_pagesave(), eviews_wfcreate(), eviews_wfsave(), exec_commands(), export(), export_dataframe(), import(), import_equation(), import_graph(), import_kable(), import_series(), import_table(), import_workfile(), rwalk(), set_eviews_path()

Examples

```
library(EviewsR)
## Not run:
Data=data.frame(x=cumsum(rnorm(100)),y=cumsum(rnorm(100)))
write.csv(Data,"eviews_import.csv",row.names = FALSE)

eviews_import(source_description = "eviews_import.csv",start_date = "1990",frequency = "m",
rename_string = "x ab",smpl_string = "1990m10 1992m10")

# Alternatively, use the dataframe as the source_description

eviews_import(source_description = Data,wf="eviews_import1",start_date = "1990",
frequency = "m",rename_string = "x ab",smpl_string = "1990m10 1992m10")

## End(Not run)
```

---

eviews_pagesave *Save an* EViews *workfile page.*

Description

Use this function in R, R Markdown and Quarto to save an EViews workfile page.

Usage

```
eviews_pagesave(
  wf = "",
  page = "",
  options = "",
  source_description = "",
  table_description = "",
  keep_list = "",
  drop_list = "",
  keepmap_list = "",
  dropmap_list = "",
  smpl_spec = "",
  save_path = dirname(source_description)
)
```

Arguments

wf	Object or a character string representing the name of an EViews workfile.
page	Object or a character string representing the name of an EViews workfile page.
options	Object or a character string of any of the acceptable EViews pagesave options, such as noid, nomapval, nonames.
source_description	The path and name of the file to be saved.
table_description	Further description of the source_description such as specifying the range=arg, byrow.
keep_list	Optional. Specify the list of EViews object to be saved.
drop_list	Optional. Specify the list of EViews object to be dropped.
keepmap_list	Optional. Specify the list of patterns of EViews object to be saved.
dropmap_list	Optional. Specify the list of patterns of EViews object to be dropped.
smpl_spec	Optional. Specify the EViews sample string
save_path	Object or a character string representing the path to the folder to save the EViews graphs. The current working directory is the default save_path. Specify the save_path only if you want the EViews graphs to live in different path from the current working directory.

Value

An EViews workfile.

See Also

Other important functions: EviewsR-package, create_object(), eng_eviews(), eviews_graph(), eviews_import(), eviews_wfcreate(), eviews_wfsave(), exec_commands(), export(), export_dataframe(), import(), import_equation(), import_graph(), import_kable(), import_series(), import_table(), import_workfile(), rwalk(), set_eviews_path()

Examples

```
library(EviewsR)
## Not run:
demo(exec_commands)

eviews_pagesave(wf="exec_commands",source_description = "eviews_pagesave.csv",
drop_list = "y")

## End(Not run)
```

`eviews_wfcreate` *Create an* `EViews` *workfile.*

Description

Use this function in R, R Markdown and Quarto to create an `EViews` workfile.

Usage

```
eviews_wfcreate(
  source_description = "",
  wf = "",
  page = "",
  prompt = FALSE,
  frequency = "",
  subperiod_opts = "",
  start_date = "",
  end_date = "",
  num_cross_sections = NA,
  num_observations = NA,
  save_path = ""
)
```

Arguments

`source_description`	Description of the file from which the data is to be imported. The specification of the description is usually just the path and file name of the file.
`wf`	Object or a character string representing the name of a workfile to be created
`page`	Object or a character string representing the name of a workfile page to be created
`prompt`	Logical, whether to force the dialog to appear from within an `EViews` program
`frequency`	Object or a character string representing the frequency of a workfile page to be created. Only letters accepted by EViews are allowed. For example `u` for undated, `a` for annual, `m` for monthly and so on.

subperiod_opts Optional integer value. Include subperiod_opts to define subperiod options for frequency argument.

start_date Object or a character string representing the start date. It should be left blank for undated (when the frequency is u).

end_date Object or a character string representing the end date. It should be left blank for undated (when the frequency is u).

num_cross_sections
Optional integer value. Include num_cross_sections in order to create an EViews balanced panel page using integer identifiers for each of the cross-sections.

num_observations
Numeric value. Specify the number of observations if the frequency="u".

save_path Specify where to save the EViews workfile.

Value

An EViews workfile

See Also

Other important functions: EviewsR-package, create_object(), eng_eviews(), eviews_graph(), eviews_import(), eviews_pagesave(), eviews_wfsave(), exec_commands(), export(), export_dataframe(), import(), import_equation(), import_graph(), import_kable(), import_series(), import_table(), import_workfile(), rwalk(), set_eviews_path()

Examples

```
library(EviewsR)
## Not run:
eviews_wfcreate(wf="eviews_wfcreate",page="EviewsR_page",frequency = "m",
start_date = "1990",end_date = "2022")

# Create a workfile from a dataframe

Data=data.frame(x=cumsum(rnorm(100)),y=cumsum(rnorm(100)))

eviews_wfcreate(source_description=Data,wf="eviews_wfcreate1",page="EviewsR_page",frequency="m",
start_date="1990")

## End(Not run)
```

---

eviews_wfsave *Save an* EViews *workfile.*

Description

Use this function in R, R Markdown and Quarto to save an EViews workfile.

Usage

```
eviews_wfsave(
  wf = "",
  page = "",
  options = "",
  source_description = "",
  table_description = "",
  keep_list = "",
  drop_list = "",
  keepmap_list = "",
  dropmap_list = "",
  smpl_spec = "",
  save_path = dirname(source_description)
)
```

Arguments

wf	Object or a character string representing the name of an EViews workfile.
page	Object or a character string representing the name of an EViews workfile page.
options	Object or a character string of any of the acceptable EViews pagesave options, such as noid, nomapval, nonames.
source_description	The path and name of the file to be saved.
table_description	Further description of the source_description such as specifying the range=arg, byrow.
keep_list	Optional. Specify the list of EViews object to be saved.
drop_list	Optional. Specify the list of EViews object to be dropped.
keepmap_list	Optional. Specify the list of patterns of EViews object to be saved.
dropmap_list	Optional. Specify the list of patterns of EViews object to be dropped.
smpl_spec	Optional. Specify the EViews sample string
save_path	Object or a character string representing the path to the folder to save the EViews graphs. The current working directory is the default save_path. Specify the save_path only if you want the EViews graphs to live in different path from the current working directory.

Value

An EViews workfile.

See Also

Other important functions: EviewsR-package, create_object(), eng_eviews(), eviews_graph(), eviews_import(), eviews_pagesave(), eviews_wfcreate(), exec_commands(), export(), export_dataframe(), import(), import_equation(), import_graph(), import_kable(), import_series(), import_table(), import_workfile(), rwalk(), set_eviews_path()

Examples

```
library(EviewsR)
## Not run:
 demo(exec_commands)

eviews_wfsave(wf="exec_commands",source_description = "eviews_wfsave.csv",
drop_list = "x")

## End(Not run)
```

---

exec_commands *Execute* EViews *commands.*

Description

Use this function in R, R Markdown and Quarto to execute EViews commands.

Usage

```
exec_commands(commands = "", wf = "", page = "", save_path = "")
```

Arguments

commands	Object or a vector of character strings of EViews commands
wf	Object or a character string representing the name of an EViews workfile.
page	Object or a character string representing the name of an EViews workfile page.
save_path	Object or a character string representing the path to the folder to save the EViews graphs. The current working directory is the default save_path. Specify the save_path only if you want the EViews graphs to live in different path from the current working directory.

Value

An EViews workfile

See Also

Other important functions: EviewsR-package, create_object(), eng_eviews(), eviews_graph(), eviews_import(), eviews_pagesave(), eviews_wfcreate(), eviews_wfsave(), export(), export_dataframe(), import(), import_equation(), import_graph(), import_kable(), import_series(), import_table(), import_workfile(), rwalk(), set_eviews_path()

Examples

```
library(EviewsR)
## Not run:
# The first example creates an `EViews` workfile with monthly frequency from 1990 2021,
# then save the workfile in the current working directory

exec_commands(c("wfcreate(wf=exec_commands,page=eviewsPage) m 2000 2022"))

# The second example opens the `EViews` workfile and then generate a random series
# named `y` and plots its line graph. It also freezes `ols` equation as `EviewsROLS`

eviewsCommands='pagecreate(page=eviewspage1) 7 2020 2022
for %page eviewspage eviewspage1
pageselect {%page}
genr y=@cumsum(nrnd)
genr x=@cumsum(nrnd)
equation ols.ls y c x
graph x_graph.line x
graph y_graph.area y
freeze(OLSTable,mode=overwrite) ols
next'

exec_commands(commands=eviewsCommands,wf="exec_commands")

# unlink("exec_commands.wf1")

## End(Not run)
```

---

export *Export R dataframe as an* EViews *workfile*

Description

Use this function to export R dataframe as an EViews workfile

Usage

```
export(
  source_description = "",
  wf = "",
  start_date = "",
  frequency = "",
  save_path = ""
)
```

Arguments

source_description

Description of the file from which the data is to be imported. The specification of the description is usually just the path and file name of the file.

wf	Object or a character string representing the name of a workfile to be created
start_date	Object or a character string representing the start date. It should be left blank for undated (when the frequency is u).
frequency	Object or a character string representing the frequency of a workfile page to be created. Only letters accepted by EViews are allowed. For example u for undated, a for annual, m for monthly and so on.
save_path	Specify where to save the EViews workfile.

Value

An EViews workfile.

See Also

Other important functions: EviewsR-package, create_object(), eng_eviews(), eviews_graph(), eviews_import(), eviews_pagesave(), eviews_wfcreate(), eviews_wfsave(), exec_commands(), export_dataframe(), import(), import_equation(), import_graph(), import_kable(), import_series(), import_table(), import_workfile(), rwalk(), set_eviews_path()

Examples

```
library(EviewsR)
## Not run:
Data=data.frame(x=cumsum(rnorm(100)),y=cumsum(rnorm(100)))

export(wf="export",source_description=Data,start_date = '1990',frequency = "m")

## End(Not run)
```

---

export_dataframe *Export R dataframe as an* EViews *workfile*

Description

Use this function in R, R Markdown and Quarto to export an R dataframe as an EViews workfile

Usage

```
export_dataframe(
  source_description = "",
  wf = "",
  start_date = "",
  frequency = "",
  save_path = ""
)
```

Arguments

source_description	Description of the file from which the data is to be imported. The specification of the description is usually just the path and file name of the file.
wf	Object or a character string representing the name of a workfile to be created
start_date	Object or a character string representing the start date. It should be left blank for undated (when the frequency is u).
frequency	Object or a character string representing the frequency of a workfile page to be created. Only letters accepted by EViews are allowed. For example u for undated, a for annual, m for monthly and so on.
save_path	Specify where to save the EViews workfile.

Value

An EViews workfile.

See Also

Other important functions: EviewsR-package, create_object(), eng_eviews(), eviews_graph(), eviews_import(), eviews_pagesave(), eviews_wfcreate(), eviews_wfsave(), exec_commands(), export(), import(), import_equation(), import_graph(), import_kable(), import_series(), import_table(), import_workfile(), rwalk(), set_eviews_path()

Examples

```
library(EviewsR)
## Not run:

Data=data.frame(x=cumsum(rnorm(100)),y=cumsum(rnorm(100)))

export_dataframe(wf="export_dataframe",source_description=Data,start_date = '1990',frequency = "m")

## End(Not run)
```

---

import *Import* EViews *series objects as dataframe*

Description

Use this function to import EViews series objects to R, R Markdown and Quarto as dataframe

Usage

```
import(
  object_name = "",
  wf = "",
  page = "",
  options = "",
  source_description = "",
  table_description = "",
  keep_list = "",
  drop_list = "",
  keepmap_list = "",
  dropmap_list = "",
  smpl_spec = ""
)
```

Arguments

object_name	Object name to be to store the imported EViews series.
wf	Object or a character string representing the name of an EViews workfile.
page	Object or a character string representing the name of an EViews workfile page.
options	Object or a character string of any of the acceptable EViews pagesave options, such as noid, nomapval, nonames.
source_description	The path and name of the file to be saved.
table_description	Further description of the source_description such as specifying the range=arg, byrow.
keep_list	Optional. Specify the list of EViews object to be saved.
drop_list	Optional. Specify the list of EViews object to be dropped.
keepmap_list	Optional. Specify the list of patterns of EViews object to be saved.
dropmap_list	Optional. Specify the list of patterns of EViews object to be dropped.
smpl_spec	Optional. Specify the EViews sample string

Value

An EViews workfile

See Also

Other important functions: EviewsR-package, create_object(), eng_eviews(), eviews_graph(), eviews_import(), eviews_pagesave(), eviews_wfcreate(), eviews_wfsave(), exec_commands(), export(), export_dataframe(), import_equation(), import_graph(), import_kable(), import_series(), import_table(), import_workfile(), rwalk(), set_eviews_path()

Examples

```
library(EviewsR)
## Not run:
demo(exec_commands)

import(object_name="importedDataFrame",wf="EviewsR_exec_commands",drop_list = "y")

eviews$importedDataFrame

knitr::kable(head(eviews$importedDataFrame),format="pandoc",caption="Table from EviewsR")

## End(Not run)
```

`import_equation` *Import* `EViews` *equation data members into R, R Markdown or Quarto.*

Description

Use this function to import `EViews` equation data members into R, R Markdown or Quarto.

Usage

```
import_equation(wf = "", page = "*", equation = "*")
```

Arguments

`wf`	Object or a character string representing the name of an `EViews` workfile.
`page`	Object or a character string representing the name of an `EViews` workfile page.
`equation`	Name(s) or wildcard expressions for `EViews` equation object(s) in an `EViews` workfile

Value

An EViews workfile

See Also

Other important functions: `EviewsR-package`, `create_object()`, `eng_eviews()`, `eviews_graph()`, `eviews_import()`, `eviews_pagesave()`, `eviews_wfcreate()`, `eviews_wfsave()`, `exec_commands()`, `export()`, `export_dataframe()`, `import()`, `import_graph()`, `import_kable()`, `import_series()`, `import_table()`, `import_workfile()`, `rwalk()`, `set_eviews_path()`

Examples

```
library(EviewsR)
## Not run:
demo(exec_commands)

import_equation(wf="exec_commands",page="eviewsPage",equation="OLS")

# To access the data members in base R

eviews$eviewspage_ols

# To obtain R-squared value in base R

eviews$eviewspage_ols$r2

# To get the values above in R Markdown or Quarto:

# chunkLabel$eviewspage_ols

# chunkLabel$eviewspage_ols$r2

## End(Not run)
```

`import_graph` *Import* `EViews` *graph objects(s) into R, R Markdown or Quarto.*

Description

Use this function to import `EViews` graph objects(s) into R, R Markdown or Quarto.

Usage

```
import_graph(
  wf = "",
  page = "*",
  graph = "*",
  graph_procs = "",
  save_options = "",
  save_copy = T,
  save_path = dirname(wf)
)
```

Arguments

`wf`	Object or a character string representing the name of an `EViews` workfile.
`page`	Object or a character string representing the name of an `EViews` workfile page.
`graph`	Name(s) or wildcard expressions of EViews graph object(S)
`graph_procs`	A vector containing `EViews` graph `procs` such as `datelabel`, `align`

save_options	A vector of options to be passed to EViews save command. It can take values like "t=png",-c and so on.
save_copy	Logical. Whether to save the copy of the graph objects
save_path	Object or a character string representing the path to the folder to save the EViews graphs. The current working directory is the default save_path. Specify the save_path only if you want the EViews graphs to live in different path from the current working directory.

Value

An EViews workfile

See Also

Other important functions: EviewsR-package, create_object(), eng_eviews(), eviews_graph(), eviews_import(), eviews_pagesave(), eviews_wfcreate(), eviews_wfsave(), exec_commands(), export(), export_dataframe(), import(), import_equation(), import_kable(), import_series(), import_table(), import_workfile(), rwalk(), set_eviews_path()

Examples

```
library(EviewsR)
## Not run:
demo(exec_commands)

# To import all graph objects

import_graph(wf="exec_commands")

# To import only graphs that begin with x:

import_graph(wf="exec_commands",graph="x*")

# To access the graph objects in base R:

# eviewspage-x_graph # graph saved in "figure/" folder

# To get the graph objects in R Markdown or Quarto

# chunkLabel-eviewspage-x_graph # graph saved in "fig.path" folder


## End(Not run)
```

---

import_kable *Import* EViews *table object as* kable

Description

Use this function to import EViews table object as kable

Usage

```
import_kable(
  wf = "",
  page = "",
  table = "",
  range = "",
  format = kable_format(),
  digits = getOption("digits"),
  row.names = NA,
  col.names = NA,
  align,
  caption = NULL,
  label = NULL,
  format.args = list(),
  escape = FALSE,
  table.attr = "",
  booktabs = TRUE,
  longtable = FALSE,
  valign = "t",
  position = "h",
  centering = TRUE,
  vline = getOption("knitr.table.vline", if (booktabs) "" else "|"),
  toprule = getOption("knitr.table.toprule", if (booktabs) "\\toprule" else
    "\\hline"),
 bottomrule = getOption("knitr.table.bottomrule", if (booktabs) "\\bottomrule" else
    "\\hline"),
  midrule = getOption("knitr.table.midrule", if (booktabs) "\\midrule" else
    "\\hline"),
  linesep = if (booktabs) c("", "", "", "", "\\addlinespace") else "\\hline",
  caption.short = "",
  table.envir = if (!is.null(caption)) "table",
  ...
)
```

Arguments

wf	Object or a character string representing the name of a workfile to be created
page	Object or a character string representing the name of a workfile page to be created
table	Name of an EViews table object in an EViews workfile
range	A vector of characters specifying the table range of rows and columns
format	A character string. Possible values are latex, html, pipe (Pandoc's pipe tables), simple (Pandoc's simple tables), rst, jira, and org (Emacs Org-mode). The

value of this argument will be automatically determined if the function is called within a **knitr** document. The `format` value can also be set in the global option `knitr.table.format`. If `format` is a function, it must return a character string.

`digits` Maximum number of digits for numeric columns, passed to `round()`. This can also be a vector of length `ncol(x)`, to set the number of digits for individual columns.

`row.names` Logical: whether to include row names. By default, row names are included if `rownames(x)` is neither `NULL` nor identical to `1:nrow(x)`.

`col.names` A character vector of column names to be used in the table.

`align` Column alignment: a character vector consisting of `'l'` (left), `'c'` (center) and/or `'r'` (right). By default or if `align = NULL`, numeric columns are right-aligned, and other columns are left-aligned. If `length(align) == 1L`, the string will be expanded to a vector of individual letters, e.g. `'clc'` becomes `c('c', 'l', 'c')`, unless the output format is LaTeX.

`caption` The table caption. By default, it is retrieved from the chunk option `tab.cap`.

`label` The table reference label. By default, the label is obtained from `knitr::opts_current$get('label')` (i.e., the current chunk label). To disable the label, use `label = NA`.

`format.args` A list of arguments to be passed to `format()` to format table values, e.g. `list(big.mark = ',')`.

`escape` Boolean; whether to escape special characters when producing HTML or LaTeX tables. When `escape = FALSE`, you have to make sure that special characters will not trigger syntax errors in LaTeX or HTML.

`table.attr` A character string for addition HTML table attributes. This is convenient if you simply want to add a few HTML classes or styles. For example, you can put 'class="table" style="color: red"'.

`booktabs` T/F for whether to enable the booktabs format for tables. I personally would recommend you turn this on for every latex table except some special cases.

`longtable` T/F for whether to use the longtable format. If you have a table that will span over two or more pages, you will have to turn this on.

`valign` You probably won't need to adjust this latex option very often. If you are familiar with latex tables, this is the optional position for the tabular environment controlling the vertical position of the table relative to the baseline of the surrounding text. Possible choices are `b`, `c` and `t` (default).

`position` This is the "real" or say floating position for the latex table environment. The `kable` only puts tables in a table environment when a caption is provided. That is also the reason why your tables will be floating around if you specify captions for your table. Possible choices are `h` (here), `t` (top, default), `b` (bottom) and `p` (on a dedicated page).

`centering` T (default)/F. Whether to center tables in the table environment.

`vline` vertical separator. Default is nothing for booktabs tables but "|" for normal tables.

`toprule` toprule. Default is hline for normal table but toprule for booktabs tables.

`bottomrule` bottomrule. Default is hline for normal table but bottomrule for booktabs tables.

midrule	midrule. Default is hline for normal table but midrule for booktabs tables.
linesep	By default, in booktabs tables, kable insert an extra space every five rows for clear display. If you don't want this feature or if you want to do it in a different pattern, you can consider change this option. The default is c(", ", ", ", '\addlinespace'). Also, if you are not using booktabs, but you want a cleaner display, you can change this to ".
caption.short	Another latex feature. Short captions for tables
table.envir	You probably don't need to change this as well. The default setting is to put a table environment outside of tabular if a caption is provided.
...	Other arguments (see Examples and References).

Value

An EViews workfile

See Also

Other important functions: EviewsR-package, create_object(), eng_eviews(), eviews_graph(), eviews_import(), eviews_pagesave(), eviews_wfcreate(), eviews_wfsave(), exec_commands(), export(), export_dataframe(), import(), import_equation(), import_graph(), import_series(), import_table(), import_workfile(), rwalk(), set_eviews_path()

Examples

```
library(EviewsR)
## Not run:
demo(exec_commands)

# To import the entire table object

import_kable(wf="exec_commands",page="eviewspage",table="OLSTable",format="pandoc")

# To import certain RANGE of the table object

import_kable(wf="exec_commands",page="eviewspage",table="OLSTable",range="r7c1:r10c5",
format="pandoc")

## End(Not run)
```

---

import_series *Import* EViews *series objects(s) into R, R Markdown or Quarto.*

Description

Use this function to import EViews series objects(s) into R, R Markdown or Quarto as dataframe or xts object.

Usage

```
import_series(wf = "", page = "*", series = "*", class = "df")
```

Arguments

wf	Object or a character string representing the name of a workfile to be created
page	Object or a character string representing the name of a workfile page to be created
series	Name(s) of EViews series object(s) in an EViews workfile
class	Class of the R object: df for dataframe, or xts for extendable time-series object.

Value

An EViews workfile

See Also

Other important functions: EviewsR-package, create_object(), eng_eviews(), eviews_graph(), eviews_import(), eviews_pagesave(), eviews_wfcreate(), eviews_wfsave(), exec_commands(), export(), export_dataframe(), import(), import_equation(), import_graph(), import_kable(), import_table(), import_workfile(), rwalk(), set_eviews_path()

Examples

```
library(EviewsR)
## Not run:
demo(exec_commands)

# To import all series objects across all pages

import_series(wf="exec_commands")

# Plot the dataframe object

library(ggplot2)

ggplot(eviews$eviewspage,aes(x=date))+geom_line(aes(y=x,color="x"))+
geom_line(aes(y=y,color="y"))+labs(colour='',x="",y="")

# To import all series objects across all pages, as an `xts` object

import_series(wf="exec_commands",class="xts")

# Plot the `xts` object

autoplot(eviews$eviewspage,facet='')+xlab("")

# To import specific series objects, for example starting with Y

import_series(wf="exec_commands",series="y*")
```

```
# To import series objects on specific pages

import_series(wf="exec_commands",page="eviewspage")


# To access the series in base R

eviews$eviewspage %>% head()

# To get the values above in R Markdown or Quarto:

# chunkLabel$eviewspage


## End(Not run)
```

`import_table` *Import* `EViews` *table objects(s) into R, R Markdown or Quarto.*

Description

Use this function to import `EViews` table objects(s) into R, R Markdown or Quarto.

Usage

```
import_table(wf = "", page = "*", table = "*")
```

Arguments

`wf`	Object or a character string representing the name of a workfile to be created
`page`	Object or a character string representing the name of a workfile page to be created
`table`	Name(s) or wildcard expressions for `EViews` table object(s) in an `EViews` workfile

Value

An EViews workfile

See Also

Other important functions: `EviewsR-package`, `create_object()`, `eng_eviews()`, `eviews_graph()`, `eviews_import()`, `eviews_pagesave()`, `eviews_wfcreate()`, `eviews_wfsave()`, `exec_commands()`, `export()`, `export_dataframe()`, `import()`, `import_equation()`, `import_graph()`, `import_kable()`, `import_series()`, `import_workfile()`, `rwalk()`, `set_eviews_path()`

Examples

```
library(EviewsR)
## Not run:
demo(exec_commands)

# To import all table objects across all pages

import_table(wf="exec_commands")

# To import specific table objects, for example for example `OLSTable`

import_table(wf="exec_commands",table="OLStable")

# To import table objects on specific pages

import_table(wf="exec_commands",page="eviewspage")

# To access the table in base R

eviews$eviewspage_olstable

# To get the values above in R Markdown or Quarto

# chunkLabel$eviewspage_olstable


## End(Not run)
```

`import_workfile` *Import* `EViews` *equation data members, graph, series and table objects(s) into R, R Markdown or Quarto.*

Description

Use this function to import `EViews` equation data members, graph, series and table objects(s) into R, R Markdown or Quarto.

Usage

```
import_workfile(
  wf = "",
  page = "*",
  equation = "*",
  graph = "*",
  series = "*",
  table = "*",
  graph_procs = "",
  save_options = "",
  save_path = dirname(wf),
```

```
  save_copy = T,
  class = "df"
)
```

Arguments

wf	Object or a character string representing the name of an EViews workfile.
page	Object or a character string representing the name of an EViews workfile page.
equation	Name(s) or wildcard expressions for EViews equation object(s) in an EViews workfile
graph	Name(s) or wildcard expressions of EViews graph object(S)
series	Name(s) of EViews series object(s) in an EViews workfile
table	Name(s) or wildcard expressions for EViews table object(s) in an EViews workfile
graph_procs	A vector containing EViews graph procs such as datelabel, align
save_options	A vector of options to be passed to EViews save command. It can take values like "t=png",-c and so on.
save_path	Object or a character string representing the path to the folder to save the EViews graphs. The current working directory is the default save_path. Specify the save_path only if you want the EViews graphs to live in different path from the current working directory.
save_copy	Logical. Whether to save the copy of the graph objects
class	Class of the R object: df for dataframe, or xts for extendable time-series object.

Value

An EViews workfile

See Also

Other important functions: EviewsR-package, create_object(), eng_eviews(), eviews_graph(), eviews_import(), eviews_pagesave(), eviews_wfcreate(), eviews_wfsave(), exec_commands(), export(), export_dataframe(), import(), import_equation(), import_graph(), import_kable(), import_series(), import_table(), rwalk(), set_eviews_path()

Examples

```
library(EviewsR)
## Not run:
demo(exec_commands)

# To import all equation, graph, series and table objects across all pages

import_workfile(wf="exec_commands")

# To import specific objects
```

```
import_workfile(wf="exec_commands",equation="ols",graph="x*",series="y*",table="ols*")

# To import objects on specific page(s)

import_workfile(wf="exec_commands",page="eviewspage")


# To access the objects in base R

eviews$eviewspage_ols # equation
# eviewspage-x_graph # graph saved in "figure/" folder
eviews$eviewspage %>% head() # series
eviews$eviewspage_olstable  # table

# To get the values above in R Markdown or Quarto:

# chunkLabel$eviewspage_ols # equation
# chunkLabel-eviewspage-x_graph # graph saved in "fig.path" folder
# chunkLabel$eviewspage %>% head() # series
# chunkLabel$eviewspage_olstable  # table


## End(Not run)
```

---

rwalk *Simulate a random walk process using an* EViews *engine.*

Description

Use this function to simulate a random walk process using an EViews engine from R, R Markdown or Quarto.

Usage

```
rwalk(
  series = "",
  wf = "",
  page = "",
  drift = NA,
  rndseed = NA,
  frequency = "",
  start_date = "",
  end_date = "",
  num_cross_sections = NA,
  num_observations = NA,
  class = "df"
)
```

Arguments

series	Names of series for the random walk.
wf	Object or a character string representing the name of a workfile to be created
page	Object or a character string representing the name of a workfile page to be created
drift	Numeric value as the drift term for random walk.
rndseed	Set the seed for Eviews random number generator.
frequency	Object or a character string representing the frequency of a workfile page to be created. Only letters accepted by EViews are allowed. For example u for undated, a for annual, m for monthly and so on.
start_date	Object or a character string representing the start date. It should be left blank for undated (when the frequency is u).
end_date	Object or a character string representing the end date. It should be left blank for undated (when the frequency is u).
num_cross_sections	Optional integer value. Include num_cross_sections in order to create an EViews balanced panel page using integer identifiers for each of the cross-sections.
num_observations	Numeric value. Specify the number of observations if the frequency="u".
class	Class of the R object: df for dataframe, or xts for extendable time-series object.

Value

An EViews workfile

See Also

Other important functions: EviewsR-package, create_object(), eng_eviews(), eviews_graph(), eviews_import(), eviews_pagesave(), eviews_wfcreate(), eviews_wfsave(), exec_commands(), export(), export_dataframe(), import(), import_equation(), import_graph(), import_kable(), import_series(), import_table(), import_workfile(), set_eviews_path()

Examples

```
library(EviewsR)
## Not run:

# Simulate random walk and return as a dataframe object

rwalk(series="a b e",rndseed=12345,start_date = 1990,frequency="m",num_observations=100)

library(ggplot2)

ggplot(eviews$abe,aes(x=date))+geom_line(aes(y=a,color="a"))+
geom_line(aes(y=b,color="b"))+geom_line(aes(y=e,color="e"))+labs(colour='',x="",y="")
```

```
# To simulate random walk and return as an `xts` object

rwalk(series="X Y Z",rndseed=12345,start_date = 1990,frequency="m",num_observations=100,class="xts")

plot(eviews$xyz)

autoplot(eviews$xyz,facet="")+xlab("")


plot(eviews$XYZ)

# To simulate random walk series on existing workfile

eviews_wfcreate(wf="rwalk",page="rwalk",frequency="7",start_date=2020,end_date="2022")
rwalk(wf="rwalk",series="rw1 rw2 rw3",rndseed=12345,frequency="M")

head(eviews$rw1rw2rw3)

## End(Not run)
```

---

set_eviews_path *Set* EViews *path*

Description

Use this function to set EViews path. It is only useful when the EViews is not installed in standard directory, or when there are multiple EViews executables and the user wants to use older version of EViews.

Usage

```
set_eviews_path(engine_path = "eviews")
```

Arguments

engine_path	Path to the EViews executable

Value

Character

See Also

Other important functions: EviewsR-package, create_object(), eng_eviews(), eviews_graph(), eviews_import(), eviews_pagesave(), eviews_wfcreate(), eviews_wfsave(), exec_commands(), export(), export_dataframe(), import(), import_equation(), import_graph(), import_kable(), import_series(), import_table(), import_workfile(), rwalk()

Examples

```
library(EviewsR)
## Not run:
set_eviews_path('C:/Program Files (x86)/EViews 10/eviews10.exe')

## End(Not run)
```

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