

Package ‘DynareR’

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Type Package

Title Bringing the Power of 'Dynare' to 'R', 'R Markdown', and 'Quarto'

Version 0.1.5

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Description

It allows running 'Dynare' program from base R, R Markdown and Quarto. 'Dynare' is a software platform for handling a wide class of economic models, in particular dynamic stochastic general equilibrium ('DSGE') and overlapping generations ('OLG') models. This package does not only integrate R and Dynare but also serves as a 'Dynare' Knit-Engine for 'knitr' package. The package requires 'Dynare' (<<https://www.dynare.org/>>) and 'Octave' (<<https://www.octave.org/download.html>>). Write all your 'Dynare' commands in R or R Markdown chunk.

Depends R (>= 3.2.3)

Imports knitr (>= 1.20),magrittr, magick

SystemRequirements Dynare, Octave

Suggests rmarkdown

License GPL

URL <https://CRAN.R-project.org/package=DynareR>

BugReports <https://github.com/sagirumati/DynareR/issues>

Encoding UTF-8

VignetteBuilder knitr

NeedsCompilation no

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| | |
|-----------------|---|
| DynareR-package | <i>DynareR: Bringing the Power of 'Dynare' to 'R', 'R Markdown', and 'Quarto'</i> |
|-----------------|---|

Description

It allows running 'Dynare' program from base R, R Markdown and Quarto. 'Dynare' is a software platform for handling a wide class of economic models, in particular dynamic stochastic general equilibrium ('DSGE') and overlapping generations ('OLG') models. This package does not only integrate R and Dynare but also serves as a 'Dynare' Knit-Engine for 'knitr' package. The package requires 'Dynare' (<https://www.dynare.org/>) and 'Octave' (<https://www.octave.org/download.html>). Write all your 'Dynare' commands in R or R Markdown chunk.

Author(s)

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

See Also

Useful links:

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

Other important functions: [add_matlab_path\(\)](#), [add_path\(\)](#), [eng_dynare\(\)](#), [import_log\(\)](#), [include_IRF\(\)](#), [input_tex\(\)](#), [run_dynare\(\)](#), [run_models\(\)](#), [set_dynare_version\(\)](#), [set_matlab_path\(\)](#), [set_octave_path\(\)](#), [write_dyn\(\)](#), [write_mod\(\)](#)

| | |
|-----------------|---|
| add_matlab_path | <i>A wrapper for Octave's addpath to add matlab folder.</i> |
|-----------------|---|

Description

Use this function to add matlab folder. Use this function if Dynare is **NOT** installed in the standard location

Usage

```
add_matlab_path(matlab_path)
```

Arguments

| | |
|-------------|---|
| matlab_path | Path to the matlab folder. Default path is /usr/lib/dynare/matlab for Linux, /usr/lib/dynare/matlab for macOS and c:/dynare/x.y/matlab for Windows, where x.y is Dynare version number. |
|-------------|---|

Value

Set of Dynare (open-source software for DSGE modelling) outputs

See Also

Other important functions: [DynareR-package](#), [add_path\(\)](#), [eng_dynare\(\)](#), [import_log\(\)](#), [include_IRF\(\)](#), [input_tex\(\)](#), [run_dynare\(\)](#), [run_models\(\)](#), [set_dynare_version\(\)](#), [set_matlab_path\(\)](#), [set_octave_path\(\)](#), [write_dyn\(\)](#), [write_mod\(\)](#)

Examples

```
library(DynareR)
## Not run:
add_matlab_path('/usr/lib/dynare/matlab') # Default for Linux

add_matlab_path('c:/dynare/5.1/matlab') # Default for Windows, but 5.1 can change
# if later version of `Dynare` is installed.

add_matlab_path('/usr/lib/dynare/matlab') # Default for macOS

## End(Not run)
```

`add_path`*A wrapper for Octave's addpath to add matlab folder.*

Description

Use this function to add matlab folder. Use this function if Dynare is **NOT** installed in the standard location

Usage

```
add_path(path)
```

Arguments

`path` Path to the matlab folder. Default path is `/usr/lib/dynare/matlab` for Linux, `/usr/lib/dynare/matlab` for macOS and `c:/dynare/x.y/matlab` for Windows, where `x.y` is Dynare version number.

Value

Set of Dynare (open-source software for DSGE modelling) outputs

See Also

Other important functions: [DynareR-package](#), [add_matlab_path\(\)](#), [eng_dynare\(\)](#), [import_log\(\)](#), [include_IRF\(\)](#), [input_tex\(\)](#), [run_dynare\(\)](#), [run_models\(\)](#), [set_dynare_version\(\)](#), [set_matlab_path\(\)](#), [set_octave_path\(\)](#), [write_dyn\(\)](#), [write_mod\(\)](#)

Examples

```
library(DynareR)
## Not run:
add_path('/usr/lib/dynare/matlab') # Default for Linux

add_path('c:/dynare/5.1/matlab') # Default for Windows, but 5.1 can change if later version of
# `Dynare` is installed.

add_path('/usr/lib/dynare/matlab') # Default for macOS

## End(Not run)
```

Description

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

Usage

```
eng_dynare(options)
```

Arguments

| | |
|---------|---|
| options | Chunk options, as provided by knitr during chunk execution. Chunk option for this is dynare |
|---------|---|

Details

The dynare engine can be activated via

```
knitr::knit_engines$set(dynare = DynareR::eng_dynare)
```

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

Value

Set of Dynare (open-source software for DSGE modelling) codes

Author(s)

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- Yusuf Maitama Sule (Northwest) University Kano, Nigeria
- SMATI Academy

References

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Yihui Xie (2015) *Dynamic Documents with R and knitr*. 2nd edition. Chapman and Hall/CRC. ISBN 978-1498716963

Yihui Xie (2014) *knitr: A Comprehensive Tool for Reproducible Research in R*. In Victoria Stodden, Friedrich Leisch and Roger D. Peng, editors, *Implementing Reproducible Computational Research*. Chapman and Hall/CRC. ISBN 978-1466561595

See Also

Other important functions: `DynareR-package`, `add_matlab_path()`, `add_path()`, `import_log()`, `include_IRF()`, `input_tex()`, `run_dynare()`, `run_models()`, `set_dynare_version()`, `set_matlab_path()`, `set_octave_path()`, `write_dyn()`, `write_mod()`

Examples

```
knitr::knit_engines$set(dynare = DynareR::eng_dynare)
library(DynareR)
```

import_log

Import dynare log file as a list of R dataframes.

Description

Use this function to import dynare log file as a list of R dataframes. The imported list can be accessed via `dynare$modelNmae`.

Usage

```
import_log(path = ".", model = "")
```

Arguments

| | |
|-------|--|
| path | A character string for the path to the dynare log file. |
| model | Object or a character string representing the name of the Dynare model file (.mod or .dyn extension) |

Value

Set of Dynare (open-source software for DSGE modelling) outputs

See Also

Other important functions: [DynareR-package](#), [add_matlab_path\(\)](#), [add_path\(\)](#), [eng_dynare\(\)](#), [include_IRF\(\)](#), [input_tex\(\)](#), [run_dynare\(\)](#), [run_models\(\)](#), [set_dynare_version\(\)](#), [set_matlab_path\(\)](#), [set_octave_path\(\)](#), [write_dyn\(\)](#), [write_mod\(\)](#)

Examples

```
## Not run:

library(DynareR)

demo(bkk)

import_log(model="bkk")

# Alternatively, use the path to the log file
import_log(path="bkk/bkk.log")

# Access the mported list

dynare$bkk

dynare$bkk$moments

knitr::kable(dynare$bkk$decomposition,format='pandoc')

## End(Not run)
```

| | |
|-------------|---|
| include_IRF | <i>Embed the graphs of Impulse Response Function (IRF) in R Markdown document</i> |
|-------------|---|

Description

Use this function to include Dynare IRF into the R Markdown document

Usage

```
include_IRF(path = ".", model = "", IRF = "", crop = TRUE)
```

Arguments

| | |
|-------|--|
| path | A character string for the path to the IRF graph. |
| model | Object or a character string representing the name of the Dynare model file (.mod or .dyn extension) |
| IRF | A character string for the name of the Impulse Response Function as defined in the Dynare codes. |
| crop | Whether to crop the white space around the graph |

Value

Set of Dynare (open-source software for DSGE modelling) outputs

Author(s)

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- Yusuf Maitama Sule (Northwest) University Kano, Nigeria
- SMATI Academy

References

Bob Rudis (2015). Running Go language chunks in R Markdown (Rmd) files. Available at: <https://gist.github.com/hrbrmstr/9a>

Yihui Xie (2019). knitr: A General-Purpose Package for Dynamic Report Generation in R. R package version 1.24.

Yihui Xie (2015) Dynamic Documents with R and knitr. 2nd edition. Chapman and Hall/CRC. ISBN 978-1498716963

Yihui Xie (2014) knitr: A Comprehensive Tool for Reproducible Research in R. In Victoria Stodden, Friedrich Leisch and Roger D. Peng, editors, Implementing Reproducible Computational Research. Chapman and Hall/CRC. ISBN 978-1466561595

See Also

Other important functions: [DynareR-package](#), [add_matlab_path\(\)](#), [add_path\(\)](#), [eng_dynare\(\)](#), [import_log\(\)](#), [input_tex\(\)](#), [run_dynare\(\)](#), [run_models\(\)](#), [set_dynare_version\(\)](#), [set_matlab_path\(\)](#), [set_octave_path\(\)](#), [write_dyn\(\)](#), [write_mod\(\)](#)

Examples

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

demo(bkk)

include_IRF(model="bkk", IRF="E_H2")

# The above code fetches the IRF graph from "bkk/bkk/graphs/bkk_IRF_E_H2.pdf"

# Alternatively, the `path` argument can be used as follows

include_IRF(path="bkk/bkk/graphs/bkk_IRF_E_H2.pdf")

## End(Not run)
```

| | |
|-----------|---|
| input_tex | <i>Include TeX file in R Markdown or Quarto document.</i> |
|-----------|---|

Description

Use this function to include TeX file in R Markdown or Quarto document.

Usage

```
input_tex(path, start = NA, end = NA)
```

Arguments

| | |
|-------|--|
| path | Object or a character string representing the path to the TeX file |
| start | Numeric. The start line(s) of the TeX file to include. |
| end | Numeric. The last line(s) of the TeX file to include. |

Value

Set of TeX text

See Also

Other important functions: [DynareR-package](#), [add_matlab_path\(\)](#), [add_path\(\)](#), [eng_dynare\(\)](#), [import_log\(\)](#), [include_IRF\(\)](#), [run_dynare\(\)](#), [run_models\(\)](#), [set_dynare_version\(\)](#), [set_matlab_path\(\)](#), [set_octave_path\(\)](#), [write_dyn\(\)](#), [write_mod\(\)](#)

Examples

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

input_tex("DynareR/TeXFolder/olsTable.tex")

## End(Not run)
```

| | |
|------------|---------------------------------------|
| run_dynare | <i>Create and run Dynare mod file</i> |
|------------|---------------------------------------|

Description

Use this function to create and run Dynare mod file. Use `run_dynare(code="someCode", model="someModel")` if you want the Dynare files to live in the current working directory. Use `run_dynare(run_dynare(code="someCode", model="someCode", model="someModel", path=someDirectory))` if you want the Dynare files to live in the path different from the current working directory (for example, `someDirectory`).

Usage

```
run_dynare(code, model, import_log = FALSE)
```

Arguments

| | |
|------------|--|
| code | Object or a character string representing the set of Dynare codes |
| model | Object or a character string representing the name of the Dynare model file (.mod or .dyn extension) |
| import_log | Logical. Whether or not to import dynare log file. |

Value

Set of Dynare (open-source software for DSGE modelling) outputs

See Also

Other important functions: [DynareR-package](#), [add_matlab_path\(\)](#), [add_path\(\)](#), [eng_dynare\(\)](#), [import_log\(\)](#), [include_IRF\(\)](#), [input_tex\(\)](#), [run_models\(\)](#), [set_dynare_version\(\)](#), [set_matlab_path\(\)](#), [set_octave_path\(\)](#), [write_dyn\(\)](#), [write_mod\(\)](#)

Examples

```
library(DynareR)
## Not run:
DynareCodes='var y, c, k, a, h, b;
varexo e, u;
parameters beta, rho, alpha, delta, theta, psi, tau;
alpha = 0.36;
rho = 0.95;
tau = 0.025;
beta = 0.99;
delta = 0.025;
psi = 0;
theta = 2.95;
phi = 0.1;
model;
c*theta*h^(1+psi)=(1-alpha)*y;
k = beta*(((exp(b)*c)/(exp(b+1))*c(+1)))
      *(exp(b+1)*alpha*y(+1)+(1-delta)*k));
y = exp(a)*(k(-1)^alpha)*(h^(1-alpha));
k = exp(b)*(y-c)+(1-delta)*k(-1);
a = rho*a(-1)+tau*b(-1) + e;
b = tau*a(-1)+rho*b(-1) + u;
end;
initval;
y = 1.08068253095672;
c = 0.80359242014163;
h = 0.29175631001732;
k = 11.08360443260358;
a = 0;
b = 0;
```

```

e = 0;
u = 0;
end;

shocks;
var e; stderr 0.009;
var u; stderr 0.009;
var e, u = phi*0.009*0.009;
end;

stoch_simul;'

# This is "example1" of the `Dynare` example files executed in current working directory
run_dynare(code=DynareCodes,model="example1",import_log=T)

# import_log=T returns the `dynare` log file as a list of dataframes in an environment `dynare`,
# which can be accessed using `dynare$modelName`

dynare$example1
dynare$example1$correlations
dynare$example1$autocorrelation[4,3]
knitr::kable(dynare$example1$moments,format='pandoc')

# This is "example1" of the `Dynare` example files executed in "DynareR/run_dynare/" folder
run_dynare(code=DynareCodes,model="DynareR/run_dynare/example1")

## End(Not run)

```

run_models

*Run multiple **existing** mod or dyn files.*

Description

Use this function to execute multiple **existing** Dynare files. Use `run_models(model='someModel')` if the Dynare files live in the current working directory. Use `run_models(model='someDirectory/someModel')` if the Dynare files live in the path different from the current working directory (for example, `someDirectory`).

Usage

```
run_models(model = "*", import_log = FALSE)
```

Arguments

| | |
|------------|--|
| model | Object or a vector of character strings representing the names of the Dynare model files excluding .mod or .dyn file extension |
| import_log | Logical. Whether or not to import dynare log file. |

Value

Set of Dynare (open-source software for DSGE modelling) outputs

See Also

Other important functions: [DynareR-package](#), [add_matlab_path\(\)](#), [add_path\(\)](#), [eng_dynare\(\)](#), [import_log\(\)](#), [include_IRF\(\)](#), [input_tex\(\)](#), [run_dynare\(\)](#), [set_dynare_version\(\)](#), [set_matlab_path\(\)](#), [set_octave_path\(\)](#), [write_dyn\(\)](#), [write_mod\(\)](#)

Examples

```
library(DynareR)

## Not run:
demo(agtrend)
demo(bkk)
demo(example1)

# Provide the list of the `Dynare` files in a vector
# Ensure that "agtrend.mod", "bkk.mod" and "example1.mod"
# live in the current working directory

# Copy the dynare files to the current working directory

lapply(c("agtrend","bkk","example1"),\ (x) file.copy(paste0(x,"/",x,".mod"),"."))

run_models(c("agtrend","bkk","example1")) # Run the models in the vector.

run_models() # Run all models in Current Working Directory.

# You can run all models that live in "DynareR/run_dynare/" folder

# Copy the dynare files to the 'DynareR/run_dynare' directory

lapply(c("agtrend","bkk","example1"),\ (x) file.copy(paste0(x,".mod"),"DynareR/run_dynare"))

run_models("DynareR/run_dynare*") # Note the * at the end.

## End(Not run)
```

| | |
|--------------------|---------------------------|
| set_dynare_version | <i>Set Dynare version</i> |
|--------------------|---------------------------|

Description

Use this function to set Dynare version

Usage

```
set_dynare_version(dynare_version="")
```

Arguments

`dynare_version` Character representing Dynare version (for example 6.1, 4.6.1 and so on). This has effect on Windows only.

Value

Character

See Also

Other important functions: [DynareR-package](#), [add_matlab_path\(\)](#), [add_path\(\)](#), [eng_dynare\(\)](#), [import_log\(\)](#), [include_IRF\(\)](#), [input_tex\(\)](#), [run_dynare\(\)](#), [run_models\(\)](#), [set_matlab_path\(\)](#), [set_octave_path\(\)](#), [write_dyn\(\)](#), [write_mod\(\)](#)

Examples

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

# If you want to use the development version of Dynare

set_dynare_version("6-unstable-2022-04-03-0800-700a0e3a") # The development version of Dynare

# If you want to use Dynare version 5.2

set_dynare_version("5.2")

## End(Not run)
```

| | |
|-----------------|------------------------|
| set_matlab_path | <i>Set Matlab path</i> |
|-----------------|------------------------|

Description

Use this function to set Matlab path

Usage

```
set_matlab_path(matlab_path = "matlab")
```

Arguments

matlab_path Path to the Matlab executable. This overwrites set_octave_path() function.

Value

Character

See Also

Other important functions: [DynareR-package](#), [add_matlab_path\(\)](#), [add_path\(\)](#), [eng_dynare\(\)](#), [import_log\(\)](#), [include_IRF\(\)](#), [input_tex\(\)](#), [run_dynare\(\)](#), [run_models\(\)](#), [set_dynare_version\(\)](#), [set_octave_path\(\)](#), [write_dyn\(\)](#), [write_mod\(\)](#)

Examples

```
library(DynareR)
## Not run:
set_matlab_path('C:/Program Files/MATLAB/R2024a/bin/matlab')

## End(Not run)
```

| | |
|-----------------|------------------------|
| set_octave_path | <i>Set Octave path</i> |
|-----------------|------------------------|

Description

Use this function to set Octave path

Usage

```
set_octave_path(octave_path = "octave")
```

Arguments

octave_path Path to the Octave executable

Value

Character

See Also

Other important functions: [DynareR-package](#), [add_matlab_path\(\)](#), [add_path\(\)](#), [eng_dynare\(\)](#), [import_log\(\)](#), [include_IRF\(\)](#), [input_tex\(\)](#), [run_dynare\(\)](#), [run_models\(\)](#), [set_dynare_version\(\)](#), [set_matlab_path\(\)](#), [write_dyn\(\)](#), [write_mod\(\)](#)

Examples

```
library(DynareR)
## Not run:
set_octave_path('C:/Program Files/GNU Octave/Octave-6.4.0/mingw64/bin/octave20.exe')

## End(Not run)
```

write_dyn

write a new dyn file.

Description

Use `write_dyn(code="someCode", model="someModel")` if you want the Dynare file to live in the current working directory. Use `write_dyn(code="someCode", model="someDirectory/someModel")` if you want the Dynare file to live in the path different from the current working directory (for example, `someDirectory`).

Usage

```
write_dyn(code, model)
```

Arguments

| | |
|--------------------|--|
| <code>code</code> | Object or a character string representing the set of Dynare codes |
| <code>model</code> | Object or a character string representing the name of the Dynare model file (.mod or .dyn extension) |

Value

Set of Dynare (open-source software for DSGE modelling) outputs

See Also

Other important functions: [DynareR-package](#), [add_matlab_path\(\)](#), [add_path\(\)](#), [eng_dynare\(\)](#), [import_log\(\)](#), [include_IRF\(\)](#), [input_tex\(\)](#), [run_dynare\(\)](#), [run_models\(\)](#), [set_dynare_version\(\)](#), [set_matlab_path\(\)](#), [set_octave_path\(\)](#), [write_mod\(\)](#)

Examples

```

library(DynareR)
## Not run:
dynareCodes='var y, c, k, a, h, b;
varexo e, u;
parameters beta, rho, alpha, delta, theta, psi, tau;
alpha = 0.36;
rho = 0.95;
tau = 0.025;
beta = 0.99;
delta = 0.025;
psi = 0;
theta = 2.95;
phi = 0.1;
model;
c*theta*h^(1+psi)=(1-alpha)*y;
k = beta*(((exp(b)*c)/(exp(b+1))*c(+1)))
      *(exp(b+1))*alpha*y(+1)+(1-delta)*k);
y = exp(a)*(k(-1)^alpha)*(h^(1-alpha));
k = exp(b)*(y-c)+(1-delta)*k(-1);
a = rho*a(-1)+tau*b(-1) + e;
b = tau*a(-1)+rho*b(-1) + u;
end;
initval;
y = 1.08068253095672;
c = 0.80359242014163;
h = 0.29175631001732;
k = 11.08360443260358;
a = 0;
b = 0;
e = 0;
u = 0;
end;

shocks;
var e; stderr 0.009;
var u; stderr 0.009;
var e, u = phi*0.009*0.009;
end;

stoch_simul;'

# This writes "example1" of the `Dynare` example with dyn extension
write_dyn(code=dynareCodes,model="example1")

# This writes "example1" of the `Dynare` example with dyn extension in "DynareR/write_dyn" folder
write_dyn(code=dynareCodes,model="DynareR/write_dyn/example1")

## End(Not run)

```

| | |
|-----------|------------------------------|
| write_mod | <i>Write a new mod file.</i> |
|-----------|------------------------------|

Description

Use `write_mod(code="someCode", model="someModel")` if you want the Dynare file to live in the current working directory. Use `write_mod(code="someCode", model="someDirectory/someModel")` if you want the Dynare file to live in the path different from the current working directory (for example, `someDirectory`).

Usage

```
write_mod(code, model)
```

Arguments

| | |
|-------|--|
| code | Object or a character string representing the set of Dynare codes |
| model | Object or a character string representing the name of the Dynare model file (.mod or .dyn extension) |

Value

Set of Dynare (open-source software for DSGE modelling) outputs

See Also

Other important functions: [DynareR-package](#), [add_matlab_path\(\)](#), [add_path\(\)](#), [eng_dynare\(\)](#), [import_log\(\)](#), [include_IRF\(\)](#), [input_tex\(\)](#), [run_dynare\(\)](#), [run_models\(\)](#), [set_dynare_version\(\)](#), [set_matlab_path\(\)](#), [set_octave_path\(\)](#), [write_dyn\(\)](#)

Examples

```
library(DynareR)
## Not run:
dynareCodes='var y, c, k, a, h, b;
varexo e, u;
parameters beta, rho, alpha, delta, theta, psi, tau;
alpha = 0.36;
rho   = 0.95;
tau   = 0.025;
beta  = 0.99;
delta = 0.025;
psi   = 0;
theta = 2.95;
phi   = 0.1;
model;
c*theta*h^(1+psi)=(1-alpha)*y;
k = beta*(((exp(b)*c)/(exp(b(+1))*c(+1))))
      *(exp(b(+1))*alpha*y(+1)+(1-delta)*k);
```

```
y = exp(a)*(k(-1)^alpha)*(h^(1-alpha));
k = exp(b)*(y-c)+(1-delta)*k(-1);
a = rho*a(-1)+tau*b(-1) + e;
b = tau*a(-1)+rho*b(-1) + u;
end;
initval;
y = 1.08068253095672;
c = 0.80359242014163;
h = 0.29175631001732;
k = 11.08360443260358;
a = 0;
b = 0;
e = 0;
u = 0;
end;

shocks;
var e; stderr 0.009;
var u; stderr 0.009;
var e, u = phi*0.009*0.009;
end;

stoch_simul;'

# This writes "example1" of the `Dynare` example with mod extension

write_mod(code=dynareCodes,model="example1")

# This writes "example1" of the `Dynare` example with mod extension in "DynareR/write_mod" folder

write_mod(code=dynareCodes,model="DynareR/write_mod/example1")

## End(Not run)
```

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