

# Package ‘rpymat’

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**Type** Package

**Title** Easy to Configure an Isolated 'Python' Environment

**Version** 0.1.9

**Description** Aims to create a single isolated 'Miniconda' and 'Python' environment for reproducible pipeline scripts. The package provides utilities to run system command within the 'conda' environment, making it easy to install, launch, manage, and stop 'Jupyter-lab'.

**License** Apache License (>= 2)

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**BugReports** <https://github.com/dipterix/rpymat/issues>

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## Contents

|                              |   |
|------------------------------|---|
| choose-file . . . . .        | 2 |
| conda-env . . . . .          | 3 |
| custom_env_support . . . . . | 6 |
| fix_omp_conflict . . . . .   | 6 |

|                                |    |
|--------------------------------|----|
| jupyter . . . . .              | 7  |
| py_builtin . . . . .           | 9  |
| py_list . . . . .              | 10 |
| py_slice . . . . .             | 11 |
| read_xlsx . . . . .            | 12 |
| repl_python . . . . .          | 13 |
| reticulate-reexports . . . . . | 13 |
| rpymat-python-main . . . . .   | 15 |
| run_command . . . . .          | 16 |
| run_pyscript . . . . .         | 18 |

|              |           |
|--------------|-----------|
| <b>Index</b> | <b>20</b> |
|--------------|-----------|

---

|             |  |
|-------------|--|
| choose-file | <i>Choose file or directory to open via 'Python'</i> |
|-------------|--|

---

## Description

Choose a directory, one or multiple files to open, or choose a file to save.

## Usage

```
choose_fileopen(
    initialfile = NULL,
    multiple = FALSE,
    title = ifelse(multiple, "Choose Files", "Choose a File"),
    message = "",
    verbose = FALSE,
    force = FALSE
)
```

```
choose_filesave()
```

```
choose_directory(
    initialdir = NULL,
    title = "Choose a Directory",
    message = "",
    verbose = FALSE
)
```

## Arguments

|                         |  |
|-------------------------|--|
| initialfile, initialdir | initial selection of file or directory |
| multiple                | whether to open multiple files         |
| title, message          | dialogue title and message             |
| verbose                 | whether to verbose debug information   |

`force` whether to force using 'Python' when native R functions are available, default is false

### Details

Base-R has `file.choose` function to choose files. However, users cannot select multiple files nor directories. These functions fill the gap by using 'Python' 'tkinter' package. Please make sure that one-time setup function `configure_conda` has executed before running these functions.

The functions must run as interactive mode. If you run the functions on a server, most likely you will get nothing. The functions themselves do not check if you are running under interactive sessions. You must check by yourself.

### Value

User-selected paths. If the users select nothing, then NULL will be returned. For multiple file selection, multiple paths will be returned.

### Examples

```
if(interactive()) {
  choose_fileopen(multiple = TRUE)
}
```

---

|           |                                |
|-----------|--------------------------------|
| conda-env | <i>'Miniconda' environment</i> |
|-----------|--------------------------------|

---

### Description

These functions/variables are used to configure 'Miniconda' environment.

### Usage

```
CONDAENV_NAME(env_name)

conda_path()

conda_bin()

env_path(env_name = NA)

list_pkgs(..., env_name = NA)

configure_matlab(matlab, python_ver = "auto")

configure_conda(
```

```

python_ver = "auto",
packages = NULL,
matlab = NULL,
update = FALSE,
force = FALSE,
standalone = FALSE,
env_name = CONDAENV_NAME()
)

conda_tos(channel, agree = TRUE, silent_fail = FALSE)

remove_conda(ask = TRUE, env_name = NA)

add_packages(packages = NULL, python_ver = "auto", ..., env_name = NA)

ensure_rpymat(verbose = TRUE, cache = TRUE, env_name = NA)

matlab_engine()

call_matlab(
  fun,
  ...,
  .options = getOption("rpymat.matlab_opt", "-nodesktop -nojvm"),
  .debug = getOption("rpymat.debug", FALSE)
)

```

### Arguments

|             |  |
|-------------|--|
| env_name    | alternative environment name to use; default is "rpymat-conda-env"   |
| ...         | for add_packages, these are additional parameters passing to <a href="#">conda_install</a> ; for call_matlab, ... are the parameters passing to fun  |
| matlab      | 'Matlab' path to add to the configuration path; see 'Details'  |
| python_ver  | python version to use; see 'Configuration'   |
| packages    | additional python or conda packages to install   |
| update      | whether to update conda; default is false  |
| force       | whether to force install the 'Miniconda' even a previous version exists; default is false. Setting false=TRUE rarely works. Please see 'Configuration'.  |
| standalone  | whether to install conda regardless of existing conda environment  |
| channel     | channels from which the term-of-service is to be agreed on   |
| agree       | whether to agree on or reject the terms; default is true   |
| silent_fail | whether the failure to agreeing to the term should not result in error; default is FALSE, which results in error if the command fails.   |
| ask         | whether to ask for user's agreement to remove the repository. This parameter should be true if your functions depend on remove_conda (see 'CRAN Repository Policy'). This argument might be removed and force to be interactive in the future. |

|          |   |
|----------|---|
| verbose  | whether to print messages                             |
| cache    | whether to use cached configurations; default is true |
| fun      | 'Matlab' function name, character (experimental)      |
| .options | 'Matlab' compiler options                             |
| .debug   | whether to enable debug mode                          |

**Value**

None

**Background & Objectives**

Package reticulate provides sophisticated tool-sets that allow us to call python functions within R. However, the installation of 'Miniconda' and python can be tricky on many platforms, for example, the 'M1' chip, or some other 'ARM' machines. The package rpymat provides easier approach to configure on these machines with totally isolated environments. Any modifications to this environment will not affect your other set ups.

Since 2014, 'Matlab' has introduced its official compiler for python. The package rpymat provides a simple approach to link the compiler, provided that you have proper versions of 'Matlab' installed.

**Configuration**

If 'Matlab' compiler is not to be installed, In most of the cases, function `configure_conda` with default arguments automatically downloads the latest 'Miniconda' and configures the latest python. If any other versions of 'Miniconda' is ought to be installed, please set options "`reticulate.miniconda.url`" to change the source location.

If 'Matlab' is to be installed, please specify the 'Matlab' path when running `configure_conda`. If the environment has been setup, `configure_matlab` can link the 'Matlab' compilers without removing the existing environment. For 'ARM' users, unfortunately, there will be no 'Matlab' support as the compilers are written for the 'Intel' chips.

**Initialization**

Once conda and python environment has been installed, make sure you run `ensure_rpymat()` before running any python code. This function will make sure correct compiler is linked to your current R session.

**Examples**

```
# The script will interactively install \code{conda} to `R_user_dir`
## Not run:

# Install conda and python 3.9

configure_conda(python_ver = '3.9')

# Add packages h5py, pandas, jupyter
```

```

add_packages(c('h5py', 'pandas', 'jupyter'))

# Add pip packages

add_packages("itk", pip = TRUE)

# Initialize the isolated environment

ensure_rpymat()

# Remove the environment

remove_conda()

## End(Not run)

```

---

custom\_env\_support      *Whether supports customized 'conda' environment*

---

**Description**

Whether supports customized 'conda' environment

**Usage**

```
custom_env_support()
```

**Value**

true or false on whether multiple customized environment is supported

---

fix\_omp\_conflict      *Fix OpenMP linking issue*

---

**Description**

Fix OpenMP linking issue

**Usage**

```
fix_omp_conflict(env_name = NA)
```

## Arguments

env\_name environment name, see [env\\_path](#).

## Details

On MacOS, R framework and conda each ship their own `libomp.dylib`. When both are loaded in the same process, the run-time raises error because different copies of OpenMP are initialized. To solve this issue, a symbolic link to R's framework copy ensures dynamical loading resolves both to the same canonical path and initializes the run-time exactly once.

## Value

Whether the symbolic link is created.

## Examples

```
## Not run:  
  
fix_omp_conflict()  
  
## End(Not run)
```

---

|         |  |
|---------|--|
| jupyter | <i>Install, register, launch 'Jupyter' notebook to the virtual environment</i> |
|---------|--|

---

## Description

Install, register, launch 'Jupyter' notebook to the virtual environment

## Usage

```
add_jupyter(..., register_R = TRUE)  
  
jupyter_bin()  
  
jupyter_register_R(  
  user = NULL,  
  name = "ir",  
  displayname = "R",  
  rprofile = NULL,  
  prefix = NULL,  
  sys_prefix = NULL,  
  verbose = getOption("verbose")  
)  
  
jupyter_options(  

```

```

    root_dir,
    host = "127.0.0.1",
    port = 8888,
    open_browser = FALSE,
    token = rand_string(),
    base_url = "/jupyter/"
)

jupyter_launch(
  host = "127.0.0.1",
  port = 8888,
  open_browser = TRUE,
  workdir = getwd(),
  async = FALSE,
  ...,
  dry_run = FALSE
)

jupyter_check_launch(
  port = 8888,
  host = "127.0.0.1",
  open_browser = TRUE,
  workdir = getwd(),
  async = "auto",
  ...
)

jupyter_server_list()

jupyter_server_stop(port, ...)

jupyter_server_stop_all(...)

```

### Arguments

|   |  |
|---|--|
| ...   | for <code>add_jupyter</code> , these are additional parameters passed to <code>jupyter_register_R</code> ;<br>for <code>jupyter_launch</code> , these are additional parameters passed to <code>jupyter_options</code> |
| <code>register_R</code>   | whether to register IRkernel to the notebook   |
| <code>user</code> , <code>name</code> , <code>displayname</code> , <code>rprofile</code> , <code>prefix</code> , <code>sys_prefix</code> , <code>verbose</code> | see <a href="#">installspec</a>  |
| <code>root_dir</code> , <code>workdir</code>  | default root directory of the notebook   |
| <code>host</code> , <code>port</code>   | 'IP' and port of the hosting 'URL'   |
| <code>open_browser</code>   | whether to open the browser once launched  |
| <code>token</code>  | access token of the notebook   |
| <code>base_url</code>   | base address, default is <code>'/jupyter/'</code>  |
| <code>async</code>  | whether to open the notebook in the background   |

dry\_run            whether to display the command instead of executing them; used to debug the code

### Value

jupyter\_bin returns the 'Jupyter' notebook binary path; jupyter\_options returns the 'Jupyter' configuration in strings; jupyter\_server\_list returns a table of existing local 'Jupyter' server hosts, ports, and tokens; jupyter\_check\_launch returns true if a new server has been created, or false if there has been an existing server at the port; other functions return nothing.

### Examples

```
## Not run:

# Requires installation of conda
library(rpymat)

# Install conda, if you have done so, skip
configure_conda()

# Install Jupyter notebook
add_jupyter(register_R = TRUE)

# Utility functions
jupyter_bin()

# Please install `dipsaus` package to enable `async=TRUE` with
# better experience
jupyter_launch(async = FALSE, open_browser = TRUE)

## End(Not run)
```

---

py\_builtin

*Get 'Python' built-in object*

---

### Description

Get 'Python' built-in object

### Usage

```
py_builtin(name, convert = FALSE)
```

**Arguments**

|         |                                     |
|---------|-------------------------------------|
| name    | object name                         |
| convert | see <a href="#">import_builtins</a> |

**Value**

A python built-in object specified by name

**Examples**

```

if(interactive() && dir.exists(env_path())) {

# ----- Basic case: use python `int` as an R function -----
py_int <- py_builtin("int", convert = TRUE)

# a is an R object now
a <- py_int(9)
print(a)
class(a)

# ----- Use python `int` as a Python function -----
py_int2 <- py_builtin("int", convert = FALSE)

# b in a python object
b <- py_int2(9)

# There is no '[1] ' when printing
print(b)
class(b)

# convert to R object
py_to_r(b)

}

```

---

py\_list

*List in 'Python'*


---

**Description**

List in 'Python'

**Usage**

```
py_list(..., convert = FALSE)
```

**Arguments**

...                    passing to list ('Python')

convert                whether to convert the results back into R; default is no

**Value**

List instance, or an R vector if converted

**Examples**

```
if(interactive() && dir.exists(env_path())) {
  py_list(list(1,2,3))
  py_list(c(1,2,3))

  py_list(array(1:9, c(3,3)))
  py_list(list(list(1:3), letters[1:3]))
}
```

---

py\_slice

*Slice index in 'Python' arrays*

---

**Description**

Slice index in 'Python' arrays

**Usage**

```
py_slice(...)
```

**Arguments**

...                    passing to slice ('Python')

**Value**

Index slice instance

**Examples**

```
if(interactive() && dir.exists(env_path())) {
  x <- np_array(array(seq(20), c(4, 5)))

  # equivalent to x[::2]
  x[py_slice(NULL, NULL, 2L)]
}
```

```
}
```

---

```
read_xlsx
```

```
Read data frame from a 'xlsx' file
```

---

### Description

Tries to use 'readxl' package or 'pandas' to read data frame.

### Usage

```
read_xlsx(
  path,
  sheet = NULL,
  method = c("auto", "pandas", "readxl"),
  n_max = Inf,
  ...
)
```

### Arguments

|        |  |
|--------|--|
| path   | 'xlsx' file path   |
| sheet  | either a character or an integer of which spread-sheet to read; the number starts from 1   |
| method | which method to use for reading the 'xlsx' file; choices are 'auto' (automatically find proper method), 'pandas' (use <code>pandas.read_xlsx</code> ), or 'readxl' (use the corresponding R package) |
| n_max  | maximum number of rows (excluding headers) to read   |
| ...    | passed to 'Python' function <code>pandas.read_xlsx</code> or <code>readxl::read_excel</code> , depending on method   |

### Value

A `data.frame` table

### Examples

```
## Not run:

rpymat::read_xlsx("Book1.xlsx", sheet = 1)

rpymat::read_xlsx("Book1.xlsx", sheet = "sheet1")

## End(Not run)
```

---

|             |   |
|-------------|---|
| repl_python | <i>Enable interactive 'python' from R</i> |
|-------------|---|

---

**Description**

Allows users to type 'python' command from R console for quick code evaluation or debugging.

**Usage**

```
repl_python(..., env_name = NA)
```

**Arguments**

... passed to [repl\\_python](#) in 'reticulate' package  
env\_name environment name to activate, if not default. This argument is ignored if any other environment is activated; see [ensure\\_rpymat](#).

**Value**

See [repl\\_python](#)

---

|                      |   |
|----------------------|---|
| reticulate-reexports | <i>Wrappers around 'reticulate' package</i> |
|----------------------|---|

---

**Description**

Almost the same with 'reticulate' functions, with rpymat enabled by default and some minor changes (see parameter convert and local)

**Usage**

```
import_main(convert = FALSE)  
tuple(..., convert = FALSE)  
py_tuple(..., convert = FALSE)  
py_help(object)  
np_array(data, ...)  
import(module, as = NULL, convert = FALSE, delay_load = FALSE)  
r_to_py(x, convert = FALSE)
```

```

py_to_r(x)
py_to_r_wrapper(x)
py_str(object, ...)
py_run_string(code, local = TRUE, convert = FALSE)
py_bool(x)
py_dict(keys, values, convert = FALSE)
py_call(x, ...)
py_del_attr(x, name)
py_del_item(x, name)
py_eval(code, convert = FALSE)
py_get_attr(x, name, silent = FALSE)
py_set_attr(x, name, value)
py_get_item(x, key, silent = FALSE)
py_set_item(x, name, value)
py_len(x, default = NULL)
py_none()

```

### Arguments

|   |   |
|---|---|
| <code>convert</code>                                  | whether to convert 'Python' objects to R; default is FALSE. This is different to 'reticulate', but less error prone: users must explicitly convert 'Python' objects to R. |
| <code>object, data, x, code, keys, values, ...</code> | passed to corresponding 'reticulate' functions as data inputs   |
| <code>module, as, delay_load</code>                   | <code>import 'Python' module as alias</code>  |
| <code>local</code>                                    | whether to execute code locally so the memory sets free when the function ends; default is true   |
| <code>name, silent, key, value, default</code>        | other parameters passing to the 'reticulate' functions  |

### Value

'Python' built-in objects

**Examples**

```
library(rpy2)
if(interactive() && dir.exists(env_path())) {

  # tuple
  x <- tuple(1, 2, "a")
  print(x)

  # convert to R object
  py_to_r(x)

  # convert R object to python
  y <- r_to_py(list(a = 1, b = "s"))

  # get element
  py_get_item(y, "a")

  # get missing element
  py_get_item(y, "c", silent = TRUE)

}
```

---

rpy2-python-main      *Get 'Python' main process environment*

---

**Description**

py automatically converts 'Python' objects to R objects. `import_main` does not convert by default; see 'Examples' for details.

**Usage**

```
py
```

**Format**

An object of class NULL of length 0.

**Value**

The 'Python' main process as a module

**Examples**

```
if(interactive() && dir.exists(env_path())) {

  py_no_convert <- rpy2::import_main(convert = FALSE)
```

```
py$a <- matrix(seq_len(16), 4)

py_no_convert$a

py$a

}
```

---

run\_command

*Execute command with additional environments*

---

### Description

Enables 'conda' environment

### Usage

```
cmd_create(command, shell, use_glue = TRUE)

cmd_set_env(command, key, value, quote = TRUE, quote_type = "cmd")

cmd_set_workdir(command, workdir)

cmd_set_conda(command, conda_path, env_path)

cmd_build(command, .env = parent.frame(), ...)

detect_shell(suggest = NULL)

run_command(
  command,
  shell = detect_shell(),
  use_glue = FALSE,
  enable_conda = TRUE,
  stdout = "",
  stderr = "",
  stdin = "",
  input = NULL,
  env_list = list(),
  wait = TRUE,
  timeout = 0,
  ...,
  workdir = getwd(),
  dry_run = FALSE,
  print_cmd = dry_run,
  glue_env = parent.frame(),
  env_name = NA
)
```

**Arguments**

|  |  |
|--|--|
| command  | system command   |
| shell  | shell type   |
| use_glue   | whether to <a href="#">glue</a> the command; default is false  |
| key, value                                       | environment variable key and value   |
| quote, quote_type                                | whether to quote the environment variables and what quote type should use; see <a href="#">shQuote</a> |
| workdir  | the working directory  |
| conda_path                                       | 'conda' path; default is <a href="#">conda_path</a>  |
| env_path   | 'conda' environment path; default is <a href="#">env_path</a>  |
| suggest  | suggested shell type; default is 'cmd' on windows, or 'bash' on others                                 |
| enable_conda                                     | whether to activate 'conda'  |
| stdout, stderr, stdin, input, wait, timeout, ... | passed to <a href="#">system2</a>  |
| env_list   | a key-value pairs of environment variables   |
| dry_run  | whether to dry-run the command (do not execute, simply returns the command), useful to debug           |
| print_cmd  | whether to print the command out   |
| glue_env, .env                                   | the environment to evaluate variables when use_glue is true  |
| env_name   | 'conda' environment name to activate, if not default.  |

**Value**

All the functions return a list with class `rpymat_system_command` except for `run_command`, which returns the exit code by [system2](#).

**Examples**

```
run_command("conda install -y numpy", dry_run = TRUE)

a <- "This is a message"
run_command('echo "{a}"', dry_run = TRUE,
            enable_conda = FALSE, use_glue = TRUE)

## Not run:

# Use `jupyter_launch()` instead. This is just a demonstration
run_command("{jupyter_bin()}" server list', use_glue = TRUE)

## End(Not run)
```

---

|              |                            |
|--------------|----------------------------|
| run_pyscript | <i>Run 'Python' script</i> |
|--------------|----------------------------|

---

### Description

A wrapper of [py\\_run\\_file](#), but with rpymat enabled

### Usage

```
run_script(
  x,
  work_dir = NULL,
  local = FALSE,
  convert = FALSE,
  globals = list()
)

run_pyscript(
  x,
  work_dir = NULL,
  local = FALSE,
  convert = FALSE,
  globals = list(),
  env_name = NA,
  force_child_process = FALSE,
  ...
)

run_pystring(
  code,
  work_dir = NULL,
  local = FALSE,
  convert = FALSE,
  globals = list()
)
```

### Arguments

|                |   |
|----------------|---|
| x              | 'Python' script path  |
| work_dir       | working directory of the script   |
| local, convert | passed to <a href="#">py_run_file</a>   |
| globals        | named list of global R variables used by 'Python' script  |
| env_name       | 'conda' environment name to activate, if not default. It is only recommended for advanced users. For easier handling cases, use <a href="#">ensure_rpymat</a> to activate the environment before calling 'Python'. If env_name is set other than activated, the evaluation will occur in a separate session (force_child_process is always set to true in such case). |

```
force_child_process  whether to force running the script in a separated process; default is FALSE
...                 passed to internal calls; some useful arguments include
                    rs logical(1), whether to attempt using 'RStudio' background job to run the
                    script; default is FALSE
                    args logical(1), only used when rs is false, passed to system2
code                'Python' code
```

**Value**

The values returned by [py\\_run\\_file](#)

**Examples**

```
## Not run:

# Please configure conda environment first

x <- tempfile()
writeLines(c(
  "import re",
  "zipcode = re.findall(r'[0-9]{5,6}', r.address)"
), con = x)

address <- '2341 Main St., 72381'
rpymat::run_script(x)

py$zipcode

## End(Not run)
```

# Index

- \* **datasets**
  - rpymat-python-main, 15
- add\_jupyter (jupyter), 7
- add\_packages (conda-env), 3
  
- call\_matlab (conda-env), 3
- choose-file, 2
- choose\_directory (choose-file), 2
- choose\_fileopen (choose-file), 2
- choose\_filesave (choose-file), 2
- cmd\_build (run\_command), 16
- cmd\_create (run\_command), 16
- cmd\_set\_conda (run\_command), 16
- cmd\_set\_env (run\_command), 16
- cmd\_set\_workdir (run\_command), 16
- conda-env, 3
- conda\_bin (conda-env), 3
- conda\_install, 4
- conda\_path, 17
- conda\_path (conda-env), 3
- conda\_tos (conda-env), 3
- CONDAENV\_NAME (conda-env), 3
- configure\_conda, 3
- configure\_conda (conda-env), 3
- configure\_matlab (conda-env), 3
- custom\_env\_support, 6
  
- data.frame, 12
- detect\_shell (run\_command), 16
  
- ensure\_rpymat, 13, 18
- ensure\_rpymat (conda-env), 3
- env\_path, 7, 17
- env\_path (conda-env), 3
  
- file.choose, 3
- fix\_omp\_conflict, 6
  
- glue, 17
  
- import (reticulate-reexports), 13
- import\_builtins, 10
- import\_main, 15
- import\_main (reticulate-reexports), 13
- installspec, 8
  
- jupyter, 7
- jupyter\_bin (jupyter), 7
- jupyter\_check\_launch (jupyter), 7
- jupyter\_launch (jupyter), 7
- jupyter\_options (jupyter), 7
- jupyter\_register\_R (jupyter), 7
- jupyter\_server\_list (jupyter), 7
- jupyter\_server\_stop (jupyter), 7
- jupyter\_server\_stop\_all (jupyter), 7
  
- list\_pkgs (conda-env), 3
  
- matlab\_engine (conda-env), 3
  
- np\_array (reticulate-reexports), 13
  
- py (rpymat-python-main), 15
- py\_bool (reticulate-reexports), 13
- py\_builtin, 9
- py\_call (reticulate-reexports), 13
- py\_del\_attr (reticulate-reexports), 13
- py\_del\_item (reticulate-reexports), 13
- py\_dict (reticulate-reexports), 13
- py\_eval (reticulate-reexports), 13
- py\_get\_attr (reticulate-reexports), 13
- py\_get\_item (reticulate-reexports), 13
- py\_help (reticulate-reexports), 13
- py\_len (reticulate-reexports), 13
- py\_list, 10
- py\_none (reticulate-reexports), 13
- py\_run\_file, 18, 19
- py\_run\_string (reticulate-reexports), 13
- py\_set\_attr (reticulate-reexports), 13
- py\_set\_item (reticulate-reexports), 13
- py\_slice, 11

`py_str` (reticulate-reexports), [13](#)  
`py_to_r` (reticulate-reexports), [13](#)  
`py_to_r_wrapper` (reticulate-reexports),  
[13](#)  
`py_tuple` (reticulate-reexports), [13](#)

`r_to_py` (reticulate-reexports), [13](#)  
`read_xlsx`, [12](#)  
`remove_conda` (conda-env), [3](#)  
`repl_python`, [13](#), [13](#)  
reticulate-reexports, [13](#)  
`rpymat-python-main`, [15](#)  
`run_command`, [16](#)  
`run_pyscript`, [18](#)  
`run_pystring` (run\_pyscript), [18](#)  
`run_script` (run\_pyscript), [18](#)

`shQuote`, [17](#)  
`system2`, [17](#), [19](#)

`tuple` (reticulate-reexports), [13](#)