

Package ‘fz’

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Type Package

Title R Wrapper for the 'funz-fz' Parametric Simulation Framework

Version 1.2.0

Description Provides R bindings to the 'funz-fz' Python package using 'reticulate'. The 'fz' framework wraps arbitrary simulation codes to run parameter sweeps, design-of-experiments studies, and iterative algorithm-driven analyses by substituting variable placeholders in text input files and collecting outputs into data frames. Calculators can run locally (shell), over SSH, or on 'SLURM' clusters.
See <<https://github.com/Funz/fz>> for the underlying framework.

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fzc	<i>fzc Function</i>
-----	---------------------

Description

Compiles input file(s) by replacing variable placeholders with values. Each unique combination of values is written to its own subdirectory inside output_dir, named var1=val1, var2=val2,

Usage

```
fzc(  
    input_path,  
    input_variables,  
    model,  
    output_dir = "output",  
    input_static = NULL  
)
```

Arguments

<code>input_path</code>	Path to input file or directory.
<code>input_variables</code>	Named list of variable values. Supply a vector of values to generate a full-factorial grid across variables.
<code>model</code>	Model definition dict or alias string.
<code>output_dir</code>	Output directory for compiled files. Default "output".
<code>input_static</code>	Optional character vector of files that are identical across every case (see fzr 's <code>input_static</code>). They are symlinked into <code>output_dir</code> rather than templated or duplicated. Default NULL.

Value

NULL (invisibly). Called for side effects.

Examples

```
if (fz_available()) {
  tf <- tempfile(fileext = ".txt")
  writelines(c("P = ${P~1.013}", "V = ${V~22.4}"), tf)

  model <- list(varprefix = "$", delim = "{}", formulaprefix = "@",
               commentline = "#")
  out <- tempfile()

  fzc(tf, list(P = 2.0, V = 11.2), model, out)
  fzc(tf, list(P = c(1.0, 2.0), V = c(11.2, 22.4)), model, out)
}
```

fzd

*fzd Function***Description**

Runs an iterative design of experiments driven by an algorithm. Unlike [fzr](#) (which evaluates a fixed grid), `fzd` lets an algorithm adaptively choose which parameter combinations to evaluate, which is useful for sensitivity analysis, surrogate-model fitting, or optimization.

Usage

```
fzd(
  input_path,
  input_variables,
  model,
  output_expression = NULL,
  algorithm,
```

```

    calculators = NULL,
    algorithm_options = NULL,
    analysis_dir = "analysis",
    input_static = NULL
)

```

Arguments

<code>input_path</code>	Path to input file or directory. Must be NULL when model is an R function (see "Direct function model" below).
<code>input_variables</code>	Named list of variable range strings of the form "[min;max]", e.g. <code>list(x = "[0;1]", y = "[-5;5]")</code> .
<code>model</code>	Model definition dict or alias string, or an R function (see "Direct function model" below).
<code>output_expression</code>	Expression evaluated on the model outputs to produce the quantity the algorithm optimizes or analyses, e.g. "result" or "out1 + 2 * out2". Vector-valued outputs may be reduced with <code>mean()</code> , <code>sum()</code> , <code>len()</code> , <code>median()</code> , <code>stdev()</code> , <code>variance()</code> , indexing/slicing, and <code>zip()</code> . A character vector of length > 1 requests a multi-objective run (<code>funz-fz >= 1.2</code>): each case then yields one scalar per expression, passed as-is to multi-objective algorithms such as NSGA-II. May be NULL only when model is a function, in which case the first output value is used.
<code>algorithm</code>	Path to the algorithm Python file, e.g. "algorithms/montecarlo_uniform.py".
<code>calculators</code>	Calculator specification(s). Default NULL. When model is a function, this must be a single integer (default 1L) and is always forced to 1L (see "Direct function model" below): R functions are only safe to call from the main thread, so a value other than 1 triggers a warning and is overridden.
<code>algorithm_options</code>	Algorithm options as a named list, a JSON string, or a path to a JSON file. Default NULL.
<code>analysis_dir</code>	Analysis directory. Default "analysis".
<code>input_static</code>	Optional character vector of files identical across every case (see fzr 's <code>input_static</code>); passed through unchanged to each iteration's internal <code>fzr()</code> call. Default NULL.

Value

Named list with the analysis results produced by the algorithm.

Direct function model

Instead of a file-based model, `model` can be an R function. This requires `funz-fz >= 1.2` (earlier releases do not support callable models); a development build can be installed with `fz_install(packages = "git+https://github.com/Funz/fz.git")`. In this mode:

- `input_path` must be NULL – there are no input files.
- `input_variables` names must match the function's arguments.

- `output_expression` may be `NULL`; the value used is then the first element of the function's return value (its return value directly if scalar, the first element if a vector/list, or the first entry's value if a named list).
- `calculators` must be a single integer, but is always forced to 1 here – regardless of the value passed in – before being forwarded to `fz`. On the `fz` (Python) side, `calculators > 1` now evaluates a Python-function model concurrently in a worker-thread pool ([Funz/fz#73](#)); that is unsafe here because R functions are called back into the R session via `reticulate`, which is only safe from the main thread – invoking the function from any other thread crashes the R session. Passing a value other than 1 therefore emits a warning explaining that it is being forced back to 1, and the call always proceeds with `calculators = 1` (strictly sequential, one call at a time, in the calling thread).
- each iteration's directory (`iterNNN/`) only contains a `values.csv` of that iteration's function inputs/outputs, since there is no file-based execution.

Examples

```
if (fz_available()) {
  # run inside a throwaway directory: fz writes analysis/ and .fz/ under cwd
  ex_dir <- file.path(tempdir(), "fz-fzd-example")
  dir.create(ex_dir, showWarnings = FALSE)
  owd <- setwd(ex_dir)

  tf <- tempfile(fileext = ".txt")
  writelines(c("x = ${x~0}", "y = ${y~0}"), tf)

  model <- list(
    varprefix = "$", delim = "{}", formulaprefix = "@", commentline = "#",
    output = list(z = "grep z output.txt | cut -d= -f2")
  )

  # A minimal self-contained random-sampling algorithm (see
  # https://github.com/Funz/fz for ready-made algorithms to install)
  algo <- tempfile(fileext = ".py")
  writelines(c(
    "import random",
    "class RandomSampler:",
    "    def __init__(self, **options):",
    "        self.batch = int(options.get('batch_sample_size', 5))",
    "        self.max_iterations = int(options.get('max_iterations', 3))",
    "        self.iteration = 0",
    "        self.input_vars = {}",
    "    def get_initial_design(self, input_vars, output_vars):",
    "        self.input_vars = input_vars",
    "        self.iteration = 1",
    "        return [{k: random.uniform(*v) for k, v in input_vars.items()}",
    "                for _ in range(self.batch)]",
    "    def get_next_design(self, previous_input_vars, previous_output_values):",
    "        self.iteration += 1",
    "        if self.iteration > self.max_iterations:",
    "            return []",
    "        return [{k: random.uniform(*v) for k, v in self.input_vars.items()}",
```

```

        "            for _ in range(self.batch)]",
        "    def get_analysis(self, input_vars, output_values):",
        "        valid = [v for v in output_values if v is not None]",
        "        mean = sum(valid) / len(valid) if valid else None",
        "        return {'text': f'mean={mean}', 'data': {'mean': mean}}"
    ), algo)

result <- fzd(
  tf,
  list(x = "[0;1]", y = "[-5;5]"),
  model,
  output_expression = "z",
  algorithm          = algo,
  algorithm_options = list(batch_sample_size = 10, max_iterations = 3)
)

setwd(owd)
unlink(ex_dir, recursive = TRUE)
}

## Not run:
# Direct function model (requires funz-fz >= 1.2)
rosenbrock <- function(x, y) {
  list(result = (1 - x)^2 + 100 * (y - x^2)^2)
}

result <- fzd(
  input_path = NULL,
  input_variables = list(x = "[-2;2]", y = "[-2;2]"),
  model = rosenbrock,
  output_expression = "result",
  algorithm = "examples/algorithms/bfgs.py",
  calculators = 1L, # forced to 1L anyway for R functions -- see "Direct function model"
  algorithm_options = list(max_iter = 20, tol = 1e-4)
)

## End(Not run)

```

fzi

fzi Function

Description

Parses input file(s) to find variables, formulas, and static objects.

Usage

```
fzi(input_path, model, input_static = NULL)
```

Arguments

<code>input_path</code>	Path to input file or directory.
<code>model</code>	Model definition dict or alias string.
<code>input_static</code>	Optional character vector of files that are identical across every case (see fzr 's <code>input_static</code>). They are never scanned for variables, since they are never templated. Default NULL.

Value

Named list keyed by the discovered static objects, variable names, and formula expressions, mapped to their values (or NULL for variables with no default).

Examples

```
if (fz_available()) {
  tf <- tempfile(fileext = ".txt")
  writeLines(c("pressure = ${P~1.013}", "volume = ${V~22.4}"), tf)

  model <- list(varprefix = "$", delim = "{}", formulaprefix = "@",
               commentline = "#")

  vars <- fzi(tf, model)
}
```

fzl

*fzl Function***Description**

Lists installed models and available calculators.

Usage

```
fzl(models = "*", calculators = "*", check = FALSE)
```

Arguments

<code>models</code>	Pattern to match models. Default "*" for all. Accepts glob patterns ("my*") or plain alias names.
<code>calculators</code>	Pattern to match calculators. Default "*" for all.
<code>check</code>	Logical; probe each calculator to verify it is reachable. Default FALSE.

Value

Named list with two entries:

models Named list of installed model definitions.

calculators Named list of available calculators.

Examples

```
if (fz_available()) {
  info <- fzl()
  names(info$models)
  names(info$calculators)

  info <- fzl(models = "Perfect*")
  info <- fzl(check = TRUE)
}
```

fzo

fzo Function

Description

Reads and parses output file(s) according to the model's output commands. Each matched directory is processed independently; the results are combined into a single list or data frame.

Usage

```
fzo(output_path, model)
```

Arguments

output_path	Path or glob pattern matching one or more output directories. Subdirectories within matched directories are not processed.
model	Model definition dict or alias string.

Value

Named list or data frame of parsed output values. An output entry may resolve to a vector (list) - e.g. a time series or spectrum - which is stored per case unmodified (no flattening, padding, or truncation).

Output extraction methods

Each entry of the model's output list is a string describing how to extract that value from the case directory. Besides the default shell command (optionally marked "bash://..."), funz-fz >= 1.2 supports shell-free extractors, portable on Windows without a bash install:

- "python://<expr>" - a Python expression evaluated in the case directory with helpers such as `grep()`, `read()`, `lines()`, `json_file()`, `csv_file()`, `hdf5_file()` and the `re/json/math/statistics/np/pd` modules.
- "jq://<filter> <file>" - JSON extraction via the jq executable.
- "yq://<filter> <file>" - YAML/JSON/XML/TOML extraction via mikefarah/yq.
- "xpath://<expr> <file>" - XML extraction via xmllint --xpath.

The python://, jq://, yq:// and xpath:// forms preserve list results as vectors; a plain shell command simplifies a single-element result to a scalar.

Examples

```
if (fz_available()) {
  out_dir <- file.path(tempdir(), "P=2,V=11.2")
  dir.create(out_dir, recursive = TRUE)
  writelines("result = 42", file.path(out_dir, "output.txt"))

  model <- list(
    varprefix = "$", delim = "{", formulaprefix = "@", commentline = "#",
    output = list(result = "grep 'result' output.txt | cut -d= -f2")
  )

  values <- fzo(out_dir, model)
}
```

fzr

fzr Function

Description

Runs full parametric calculations over an input template. `fzr` combines `fzc`, calculator execution, and `fzo` into a single call: it compiles the template for every parameter combination, runs the model via the calculator(s), and collects all outputs into a data frame.

Usage

```
fzr(
  input_path,
  input_variables,
  model,
  results_dir = "results",
  calculators = NULL,
  callbacks = NULL,
  timeout = NULL,
  case_naming = NULL,
  input_static = NULL
)
```

Arguments

<code>input_path</code>	Path to input file or directory.
<code>input_variables</code>	Named list of variable values (or vectors of values for a full-factorial grid), or a data frame where each row is one case.
<code>model</code>	Model definition dict or alias string.
<code>results_dir</code>	Results directory. Default "results".

calculators	Calculator specification(s). Strings of the form "sh://<command>" run a local shell command; "ssh://user@host" runs over SSH; NULL auto-detects installed calculators.
callbacks	Optional named list of callback functions.
timeout	Timeout in seconds per case. Default NULL, which resolves to the model's own "timeout" entry if set, otherwise the FZ_RUN_TIMEOUT configuration value (1 hour by default in funz-fz >= 1.2). An explicit value here takes precedence over both.
case_naming	How each case's result/temp subdirectory is named: "path" (default, "var1=val1,var2=val2,..."), "hash" (short content hash of the variable combination), or "index" ("case_<i>"). "hash"/"index" avoid filesystem name length limits with many variables and write a cases.csv manifest at the results root. Default NULL (uses FZ_CASE_NAMING or "path").
input_static	Optional character vector of files identical across every case (e.g. a shared reference dataset): never templated, never re-hashed per case, and - for relative paths - symlinked into each case directory instead of duplicated (and transferred to remote calculators). Absolute paths are assumed already present calculator-side. Default NULL.

Value

Data frame (or named list) with one row per case and columns for each input variable and output quantity.

Examples

```
if (fz_available()) {
  # run inside a throwaway directory: fz writes results/ and .fz/ under cwd
  ex_dir <- file.path(tempdir(), "fz-fzr-example")
  dir.create(ex_dir, showWarnings = FALSE)
  owd <- setwd(ex_dir)

  tf <- tempfile(fileext = ".sh")
  writeLines(c(
    "#!/bin/sh",
    "echo result = $(( ${x~0} + ${y~0} )) > output.txt"
  ), tf)

  model <- list(
    varprefix = "$", delim = "{", formulaprefix = "@", commentline = "#",
    output = list(result = "grep result output.txt | cut -d= -f2")
  )

  results <- fzr(tf, list(x = c(1L, 2L), y = 3L), model,
    calculators = "sh://bash input.sh")

  setwd(owd)
  unlink(ex_dir, recursive = TRUE)
}
```

fz_available	<i>Check if fz Python Package is Available</i>
--------------	--

Description

Checks whether the fz Python package is available in the current Python environment.

Usage

```
fz_available()
```

Details

The importable module name of the funz-fz package is fz. This function returns TRUE only when a module named fz imports *and* exposes the expected API (fzi/fzc/fzo/ fzf), so that an unrelated Python package that also happens to be importable as fz is not mistaken for funz-fz. All examples and tests are guarded with if (fz_available()) and therefore skip (rather than error) when the Python side is missing or misconfigured.

Value

Logical; TRUE if fz is available, FALSE otherwise.

Examples

```
if (fz_available()) {  
  message("fz is available!")  
} else {  
  message("Please install fz with fz_install()")  
}
```

fz_install	<i>Install the fz Python Package</i>
------------	--------------------------------------

Description

This function installs the fz Python package into a virtual environment or conda environment managed by reticulate.

Usage

```
fz_install(
    packages = "funz-fz",
    method = "auto",
    conda = "auto",
    pip = TRUE,
    ...
)
```

Arguments

packages	Package specification passed to <code>reticulate::py_install()</code> . Default "funz-fz" installs the latest release from PyPI. To track unreleased features, install the latest main branch directly from GitHub with "git+https://github.com/Funz/fz.git".
method	Installation method. Either "auto", "virtualenv", or "conda".
conda	Path to conda executable. Only used when method is "conda".
pip	Logical; use pip for installation? Default is TRUE.
...	Additional arguments passed to <code>reticulate::py_install()</code> .

Value

NULL (invisibly). Called for side effects.

Examples

```
## Not run:
# Install fz in a virtual environment
fz_install()

# Install in a conda environment
fz_install(method = "conda")

# Track the latest main branch on GitHub (unreleased features)
fz_install(packages = "git+https://github.com/Funz/fz.git")

## End(Not run)
```

get_config

Get the Global Configuration

Description

Returns the fz configuration object. Values are controlled by environment variables such as FZ_LOG_LEVEL, FZ_MAX_WORKERS, FZ_MAX_RETRIES, and FZ_SHELL_PATH.

Usage

```
get_config()
```

Value

A Python Config object. Access fields with \$, e.g. `get_config()$max_workers`.

Examples

```
if (fz_available()) {  
  cfg <- get_config()  
  cfg$max_workers  
  cfg$max_retries  
}
```

get_interpreter	<i>Get the Current Interpreter</i>
-----------------	------------------------------------

Description

Returns the global formula interpreter used when evaluating formula expressions inside template files (e.g. "python" or "R").

Usage

```
get_interpreter()
```

Value

Character string naming the current interpreter.

Examples

```
if (fz_available()) {  
  get_interpreter()  
}
```

get_log_level	<i>Get the Current Log Level</i>
---------------	----------------------------------

Description

Returns the current logging verbosity level.

Usage

```
get_log_level()
```

Value

A log-level value (use `as.character()` to convert to a string such as "DEBUG", "INFO", "WARNING", "ERROR").

Examples

```
if (fz_available()) {
  as.character(get_log_level())
}
```

install	<i>Install a Model or Algorithm (generic)</i>
---------	---

Description

Generic alias: installs a model from a GitHub name, URL, or local zip file. Equivalent to [install_model](#).

Usage

```
install(source, global = FALSE)
```

Arguments

source	GitHub name (e.g. "Funz/Model-PerfectGas"), URL, or path to a local zip file.
global	Logical; install system-wide instead of user-level. Default FALSE.

Value

Named list with installation details.

Examples

```
## Not run:
# Requires the named GitHub repository to exist and network access;
# not run automatically since neither is guaranteed in all environments.
install("Funz/Model-PerfectGas")

## End(Not run)
```

install_algorithm	<i>Install an Algorithm</i>
-------------------	-----------------------------

Description

Installs an algorithm from a GitHub repository name, URL, or local zip file into the user-level `~/.fz/algorithms/` directory (or system-level when `global = TRUE`).

Usage

```
install_algorithm(source, global = FALSE)
```

Arguments

source	GitHub name (e.g. "Funz/Algorithm-MonteCarlo"), URL, or path to a local zip file.
global	Logical; install system-wide instead of user-level. Default FALSE.

Value

Named list with installation details (path, name, ...).

Examples

```
## Not run:  
# Requires the named GitHub repository to exist and network access;  
# not run automatically since neither is guaranteed in all environments.  
install_algorithm("Funz/Algorithm-MonteCarlo")  
  
## End(Not run)
```

install_model	<i>Install a Model</i>
---------------	------------------------

Description

Installs a model from a GitHub repository name, URL, or local zip file into the user-level `~/.fz/models/` directory (or system-level when `global = TRUE`).

Usage

```
install_model(source, global = FALSE)
```

Arguments

source	GitHub name (e.g. "Funz/Model-PerfectGas"), URL, or path to a local zip file.
global	Logical; install system-wide instead of user-level. Default FALSE.

Value

Named list with installation details (path, id, ...).

Examples

```
## Not run:
# Requires the named GitHub repository to exist and network access;
# not run automatically since neither is guaranteed in all environments.
install_model("Funz/Model-PerfectGas")

## End(Not run)
```

```
list_installed_algorithms
```

List Installed Algorithms

Description

Returns details of all algorithms installed in ~/.fz/algorithms/.

Usage

```
list_installed_algorithms(global = FALSE)
```

Arguments

global	Logical; list system-level installs. Default FALSE.
--------	---

Value

Named list of installed algorithm definitions.

Examples

```
if (fz_available()) {
  algos <- list_installed_algorithms()
  names(algos)
}
```

list_installed_models	<i>List Installed Models</i>
-----------------------	------------------------------

Description

Returns details of all models installed in `~/ .fz/models/`.

Usage

```
list_installed_models(global = FALSE)
```

Arguments

`global` Logical; list system-level installs. Default FALSE.

Value

Named list of installed model definitions.

Examples

```
if (fz_available()) {  
  models <- list_installed_models()  
  names(models)  
}
```

list_models	<i>List Installed Models (alias)</i>
-------------	--------------------------------------

Description

Alias for [list_installed_models](#).

Usage

```
list_models(global = FALSE)
```

Arguments

`global` Logical; list system-level installs. Default FALSE.

Value

Named list of installed model definitions.

Examples

```
if (fz_available()) {  
  names(list_models())  
}
```

print_config

Print the Current Configuration

Description

Prints all fz configuration values in a human-readable format, including which settings come from environment variables.

Usage

```
print_config()
```

Value

NULL (invisibly). Called for side effects.

Examples

```
if (fz_available()) {  
  print_config()  
}
```

reload_config

Reload Configuration from Environment Variables

Description

Re-reads all FZ_* environment variables and updates the live configuration. Useful after changing environment variables within the session.

Usage

```
reload_config()
```

Value

NULL (invisibly). Called for side effects.

Examples

```
if (fz_available()) {  
  Sys.setenv(FZ_MAX_WORKERS = "8")  
  reload_config()  
  get_config()$max_workers  
}
```

set_interpreter	<i>Set the Interpreter</i>
-----------------	----------------------------

Description

Sets the global formula interpreter for evaluating expressions inside template files.

Usage

```
set_interpreter(interpreter)
```

Arguments

interpreter Character string: "python" or "R".

Value

NULL (invisibly). Called for side effects.

Examples

```
if (fz_available()) {  
  set_interpreter("R")  
  set_interpreter("python")  
}
```

set_log_level	<i>Set the Log Level</i>
---------------	--------------------------

Description

Controls how much output fz emits during execution.

Usage

```
set_log_level(level)
```

Arguments

level Character string or log-level object: one of "DEBUG", "INFO", "WARNING", "ERROR".

Value

NULL (invisibly). Called for side effects.

Examples

```
if (fz_available()) {
  set_log_level("DEBUG")
  set_log_level("WARNING")
  set_log_level("ERROR")
}
```

uninstall	<i>Uninstall a Model (generic)</i>
-----------	------------------------------------

Description

Generic alias: removes a model by name. Equivalent to [uninstall_model](#).

Usage

```
uninstall(model_name, global = FALSE)
```

Arguments

model_name Name of the model to remove.

global Logical; remove from system-level install. Default FALSE.

Value

TRUE if removed, FALSE otherwise.

Examples

```
if (fz_available()) {
  uninstall("PerfectGas")
}
```

uninstall_algorithm	<i>Uninstall an Algorithm</i>
---------------------	-------------------------------

Description

Removes a previously installed algorithm from ~/.fz/algorithms/.

Usage

```
uninstall_algorithm(algorithm_name, global = FALSE)
```

Arguments

algorithm_name Name of the algorithm to remove.

global Logical; remove from system-level install. Default FALSE.

Value

TRUE if the algorithm was removed, FALSE otherwise.

Examples

```
if (fz_available()) {  
  uninstall_algorithm("MonteCarlo")  
}
```

uninstall_model	<i>Uninstall a Model</i>
-----------------	--------------------------

Description

Removes a previously installed model from ~/.fz/models/.

Usage

```
uninstall_model(model_name, global = FALSE)
```

Arguments

model_name Name of the model to remove (e.g. "PerfectGas").

global Logical; remove from system-level install. Default FALSE.

Value

TRUE if the model was removed, FALSE otherwise.

Examples

```
if (fz_available()) {  
  uninstall_model("PerfectGas")  
}
```

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