

Package ‘RSuite’

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Type Package

Title Supports Developing, Building and Deploying R Solution

Version 0.35-250

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Description Supports safe and reproducible solutions development in R.
It will help you with environment separation per project,
dependency management, local packages creation and preparing
deployment packs for your solutions.

URL <https://rsuite.io>

BugReports <https://github.com/WLOGSolutions/RSuite/issues>

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build_bash_script	<i>Creates a bash script to update the system to satisfy project requirements.</i>
-------------------	--

Description

Creates a bash script to update the system to satisfy project requirements.

Usage

```
build_bash_script(recipe, plat_desc)
```

Arguments

recipe	object of type sysreqs_script_recipe
plat_desc	named list content: name One of Windows, MacOS, RedHat, Debian (type: character) distrib Distribution e.g. for Debian: Debian, Ubuntu; for RedHat: CentOS, RedHat, Fedora (type: character(1)) release Distribution release e.g. for Debian: squeeze, wheezy, jessie (type: character(1)) sysreq_type One of Windows, Pkg, RPM, DEB (type: character(1)) build True if build environment is required (type: logical(1))

build_win_script	<i>Creates a cmd script to update the system to satisfy project requirements.</i>
------------------	---

Description

Creates a cmd script to update the system to satisfy project requirements.

Usage

```
build_win_script(recipe, plat_desc)
```

Arguments

recipe	object of type sysreqs_script_recipe
plat_desc	named list content: name One of Windows, MacOS, RedHat, Debian (type: character) distrib Distribution e.g. for Debian: Debian, Ubuntu; for RedHat: CentOS, RedHat, Fedora (type: character(1)) release Distribution release e.g. for Debian: squeeze, wheezy, jessie (type: character(1)) sysreq_type One of Windows, Pkg, RPM, DEB (type: character(1)) build True if build environment is required (type: logical(1))

`ci_adapter_create_base`

Creates the base presentation for the CI adapter to use by concrete implementations.

Description

Creates the base presentation for the CI adapter to use by concrete implementations.

Usage

```
ci_adapter_create_base(name)
```

Arguments

name	name under which CI adapter will be registered in RSuite. It cannot contain whitespaces or comma. (type: character)
------	---

Value

object of type `rsuite_ci_adapter`

See Also

Other in extending RSuite with CI adapter: [ci_adapter_get_version](#), [ci_adapter_is_building](#)

Examples

```
# create you own CI adapter
ci_adapter_create_own <- function() {
  result <- ci_adapter_create_base("Own")
  class(result) <- c("ci_adapter_own", class(result))
  return(result)
}
```

`ci_adapter_get_version`

Retrieves current CI build number.

Description

Retrieves current CI build number.

Usage

```
ci_adapter_get_version(ci_adapter)
```

Arguments

ci_adapter ci adapter object

Value

build number reported by CI. (type: character).

See Also

Other in extending RSuite with CI adapter: [ci_adapter_create_base](#), [ci_adapter_is_building](#)

Examples

```
# create you own CI adapter
ci_adapter_create_own <- function() {
  result <- ci_adapter_create_base("Own")
  class(result) <- c("ci_adapter_own", class(result))
  return(result)
}

#' @export
ci_adapter_get_version.ci_adapter_own <- function(ci_adapter) {
  # ... detect if build triggered by CI is currently running ...
  return("0.0")
}
```

ci_adapter_is_building

Detects if build process triggered by CI is currently running.

Description

Detects if build process triggered by CI is currently running.

Usage

```
ci_adapter_is_building(ci_adapter)
```

Arguments

ci_adapter ci adapter object

Value

TRUE if build triggered by CI is currently running.

See Also

Other in extending RSuite with CI adapter: [ci_adapter_create_base](#), [ci_adapter_get_version](#)

Examples

```
# create you own CI adapter
ci_adapter_create_own <- function() {
  result <- ci_adapter_create_base("Own")
  class(result) <- c("ci_adapter_own", class(result))
  return(result)
}

#' @export
ci_adapter_is_building.ci_adapter_own <- function(ci_adapter) {
  # ... check ...
  return(TRUE)
}
```

get_version_numbers	<i>Retrieves version numbers from the input version string e.g. 1.2.0 returns c(1, 2, 0)</i>
---------------------	--

Description

Retrieves version numbers from the input version string e.g. 1.2.0 returns c(1, 2, 0)

Usage

```
get_version_numbers(vers)
```

Arguments

vers	list of versions which can contain blocks of digits separated with a dot or dash character (type: character).
------	---

Value

list of versions digit vectors (type: list)

perform	<i>Performs(runs) all recipes from the sysreqs_recipe object.</i>
---------	---

Description

Performs(runs) all recipes from the sysreqs_recipe object.

Usage

```
perform(recipe)
```

Arguments

recipe	sysreqs_recipe object (type: sysreqs_recipe)
--------	--

pkgzip_build_bioc_package

Builds PKGZIP out of a package on Bioconductor

Description

Loads package from the Bioconductor repository, packages it into package file and builds a PKGZIP out of it. It uses the project to detect repositories to look for dependencies and to detect rversion if required.

Usage

```
pkgzip_build_bioc_package(repo, ..., prj = NULL,
  pkg_type = .Platform$pkgType, path = getwd(), with_deps = FALSE,
  filter_repo = NULL, skip_build_steps = NULL, keep_sources = FALSE)
```

Arguments

repo	repository address in format [username:password@[release/]repo[#revision]. See devtools::install_bioc for more information.
...	Bioconductor specific parameters passed to devtools::install_bioc.
prj	project object to use. If not passed will init project from working directory. (type: rsuite_project, default: NULL)
pkg_type	type of packages to build (type: character, default: platform default)
path	folder path to put output zip into. The folder must exist. (type: character: default: getwd())
with_deps	If TRUE will include dependencies pkgs dependencies into final zip. (type: logical, default: FALSE)

filter_repo repository address to not include dependencies available in. If NULL will not filter dependencies. Will be omitted if `with_deps` is FALSE. (type: character(1), default: NULL)

skip_build_steps character vector with steps to skip while building project packages. Can contain following entries:

- specs** Process packages specifics
- docs** Try build documentation with roxygen
- imps** Perform imports validation
- tests** Run package tests
- rcpp_attribs** Run rppAttribs on the package
- vignettes** Build package vignettes

(type: character(N), default: NULL).

keep_sources if TRUE downloaded package sources will not be removed after building. (type: logical, default: FALSE)

Details

Logs all messages onto rsuite logger. Use `logging::setLevel` to control logs verbosity.

Value

created pkgzip file path (invisible).

See Also

Other in PKGZIP building: [pkgzip_build_ext_packages](#), [pkgzip_build_github_package](#), [pkgzip_build_package_files](#), [pkgzip_build_prj_packages](#)

Examples

```
# create exemplary project base folder
prj_base <- tempfile("example_")
dir.create(prj_base, recursive = TRUE, showWarnings = FALSE)

# start project
prj <- prj_start("my_project", skip_rc = TRUE, path = prj_base)

# build PKGZIP with logging package from cran repository
pkgzip_fpath <- pkgzip_build_bioc_package("BiocGenerics", prj = prj, path = tempdir())

# list content of pkgzip created
unzip(pkgzip_fpath, list = TRUE)
```

pkgzip_build_ext_packages

Builds PKGZIP out of passed external packages.

Description

Builds PKGZIP out of passed external packages.

Usage

```
pkgzip_build_ext_packages(pkgs, prj = NULL, pkg_type = .Platform$pkgType,
  path = getwd(), with_deps = FALSE, filter_repo = NULL)
```

Arguments

pkgs	vector of names of external packages which should be included in PKGZIP. (type: character)
prj	project object to use. If not passed will init project from working directory. (type: rsuite_project, default: NULL)
pkg_type	type of packages to build (type: character, default: platform default)
path	folder path to put output zip into. The folder must exist. (type: character(1), default: getwd())
with_deps	If TRUE will include dependencies pkgs dependencies into final zip. (type: logical, default: FALSE)
filter_repo	repository address to not include dependencies available in. If NULL will not filter dependencies. Will be omitted if with_deps is FALSE. (type: character(1), default: NULL)

Details

It uses the project to detect repositories to look for packages in.

Logs all messages onto rsuite logger. Use `logging::setLevel` to control logs verbosity.

Value

created pkgzip file path (invisible).

See Also

Other in PKGZIP building: [pkgzip_build_bioc_package](#), [pkgzip_build_github_package](#), [pkgzip_build_package_file](#), [pkgzip_build_prj_packages](#)

Examples

```
# create exemplary project base folder
prj_base <- tempfile("example_")
dir.create(prj_base, recursive = TRUE, showWarnings = FALSE)

# start project
prj <- prj_start("my_project", skip_rc = TRUE, path = prj_base)

# build PKGZIP with logging package
pkgzip_fpath <- pkgzip_build_ext_packages("logging", prj = prj, path = tempdir())

# list content of pkgzip created
unzip(pkgzip_fpath, list = TRUE)
```

pkgzip_build_github_package

Builds PKGZIP out of a package on GitHub.

Description

Loads package from the GitHub repository, packages it into package file and builds a PKGZIP out of it. It uses the project to detect repositories to look for dependencies and to detect rversion if required.

Usage

```
pkgzip_build_github_package(repo, ..., prj = NULL,
  pkg_type = .Platform$pkgType, path = getwd(), with_deps = FALSE,
  filter_repo = NULL, skip_build_steps = NULL, keep_sources = FALSE)
```

Arguments

repo	repository address in format username/repo[/subdir][\@refl#pull]. See devtools::install_github for more information.
...	GitHub specific parameters passed to devtools::install_github.
prj	project object to use. If not passed will init project from working directory. (type: rsuite_project, default: NULL)
pkg_type	type of packages to build (type: character, default: platform default)
path	folder path to put output zip into. The folder must exist. (type: character: default: getwd())
with_deps	If TRUE will include dependencies pkgs dependencies into final zip. (type: logical, default: FALSE)

filter_repo repository address to not include dependencies available in. If NULL will not filter dependencies. Will be omitted if `with_deps` is FALSE. (type: character(1), default: NULL)

skip_build_steps character vector with steps to skip while building project packages. Can contain following entries:

- specs** Process packages specifics
- docs** Try build documentation with roxygen
- imps** Perform imports validation
- tests** Run package tests
- rcpp_attribs** Run rppAttribs on the package
- vignettes** Build package vignettes

(type: character(N), default: NULL).

keep_sources if TRUE downloaded package sources will not be removed after building. (type: logical, default: FALSE)

Details

Logs all messages onto rsuite logger. Use `logging::setLevel` to control logs verbosity.

Value

created pkgzip file path (invisible).

See Also

Other in PKGZIP building: [pkgzip_build_bioc_package](#), [pkgzip_build_ext_packages](#), [pkgzip_build_package_files](#), [pkgzip_build_prj_packages](#)

Examples

```
# create exemplary project base folder
prj_base <- tempfile("example_")
dir.create(prj_base, recursive = TRUE, showWarnings = FALSE)

# start project
prj <- prj_start("my_project", skip_rc = TRUE, path = prj_base)

# build PKGZIP with logging package from cran repository
pkgzip_fpath <- pkgzip_build_github_package("cran/logging", prj = prj, path = tempdir())

# list content of pkgzip created
unzip(pkgzip_fpath, list = TRUE)
```

`pkgzip_build_package_files`*Builds PKGZIP out of passed package files.*

Description

Builds PKGZIP out of passed package files.

Usage

```
pkgzip_build_package_files(files, path = getwd())
```

Arguments

<code>files</code>	vector of files to upload. (type: character)
<code>path</code>	folder path to put output zip into. The folder must exist. (type: character; default: <code>getwd()</code>)

Details

Logs all messages onto rsuite logger. Use `logging::setLevel` to control logs verbosity.

Value

created pkgzip file path (invisible).

See Also

Other in PKGZIP building: [pkgzip_build_bioc_package](#), [pkgzip_build_ext_packages](#), [pkgzip_build_github_packages](#), [pkgzip_build_prj_packages](#)

Examples

```
# download logging package
pkg_fpath <- utils::download.packages("logging",
                                     repos = "https://cloud.r-project.org/",
                                     destdir = tempdir())[1,2]

# build PKGZIP
pkgzip_fpath <- pkgzip_build_package_files(files = pkg_fpath, path = tempdir())

# list content of pkgzip created
unzip(pkgzip_fpath, list = TRUE)
```

pkgzip_build_prj_packages

Builds PKGZIP out of project packages.

Description

Builds PKGZIP out of project packages.

Usage

```
pkgzip_build_prj_packages(pkgs = NULL, prj = NULL, zip_ver = NULL,
  pkg_type = .Platform$pkgType, path = getwd(), with_deps = FALSE,
  filter_repo = NULL, skip_build_steps = NULL)
```

Arguments

pkgs	vector of project packages which should be included in PKGZIP or NULL to include all project packages (type: character, default: NULL)
prj	project object to use. If not passed will init project from working directory. (type: rsuite_project, default: NULL)
zip_ver	if passed enforce the version of PKGZIP package to the passed value. Expected form of version is DD.DD. (type: character, default: NULL)
pkg_type	type of packages to build (type: character, default: platform default)
path	folder path to put output zip into. The folder must exist. (type: character: default: getwd())
with_deps	If TRUE will include dependencies pkgs dependencies into final zip. (type: logical, default: FALSE)
filter_repo	repository address to not include dependencies available in. In a project, dependencies will never be filtered. If NULL will not filter dependencies. Will be omitted if with_deps is FALSE. (type: character(1), default: NULL)
skip_build_steps	character vector with steps to skip while building project packages. Can contain following entries: specs Process packages specifics docs Try build documentation with roxygen imps Perform imports validation tests Run package tests rcpp_attribs Run rppAttribs on the package vignettes Build package vignettes (type: character(N), default: NULL).

Details

PKGZIP will be tagged with the same way as project zip.

Logs all messages onto rsuite logger. Use `logging::setLevel` to control logs verbosity.

Value

created pkgzip file path (invisible).

See Also

Other in PKGZIP building: [pkgzip_build_bioc_package](#), [pkgzip_build_ext_packages](#), [pkgzip_build_github_packages](#), [pkgzip_build_package_files](#)

Examples

```
# create exemplary project base folder
prj_base <- tempfile("example_")
dir.create(prj_base, recursive = TRUE, showWarnings = FALSE)

# start project
prj <- prj_start("my_project", skip_rc = TRUE, path = prj_base)

# start package in my_project
prj_start_package("mypackage", skip_rc = TRUE, prj = prj)

# build project environment and install supportives
prj_install_deps(prj = prj, vanilla_sups = TRUE)

# build PKGZIP
pkgzip_fpath <- pkgzip_build_prj_packages(prj = prj, path = tempdir())

# list content of pkgzip created
unzip(pkgzip_fpath, list = TRUE)
```

prj_build

Builds project internal packages and installs them.

Description

Builds project internal packages and installs them.

Usage

```
prj_build(prj = NULL, type = NULL, rebuild = FALSE, vignettes = TRUE)
```

Arguments

prj	project to build if not passed will build project for working directory. (type: rsuite_project, default: NULL)
type	type of packages to build. If NULL will build platform default. (type: character)

rebuild	if TRUE will force rebuild all project packages event if no changes detected (type: logical)
vignettes	if FALSE will not build vignettes which can highly decrease package building time (type: logical, default: TRUE)

Details

Logs all messages from the building process onto the rsuite logger. Use `logging::setLevel` to control logs verbosity. DEBUG level turns on building and downloading messages.

See Also

Other in project management: [prj_clean_deps](#), [prj_init](#), [prj_install_deps](#), [prj_load](#), [prj_lock_env](#), [prj_pack](#), [prj_start_package](#), [prj_start](#), [prj_unload](#), [prj_zip](#)

Examples

```
# create exemplary project base folder
prj_base <- tempfile("example_")
dir.create(prj_base, recursive = TRUE, showWarnings = FALSE)

# start project
prj <- prj_start("my_project", skip_rc = TRUE, path = prj_base)

# create package in the project
prj_start_package("mypackage", prj = prj, skip_rc = TRUE)

# build project local environment
prj_install_deps(prj = prj)

# build mypackage and install it into project environment
prj_build(prj = prj)
```

prj_clean_deps

Uninstalls unused packages from the local project environment.

Description

Checks if all dependencies installed are required by project packages or master scripts and removes those which are not required any more.

Usage

```
prj_clean_deps(prj = NULL)
```


Arguments

`prj` project to clean dependencies of. If not passed will use the project base in the working directory. (type: rsuite_project, default: NULL)

Details

Logs all messages from the building process onto the rsuite logger. Use `logging::setLevel` to control logs verbosity. DEBUG level turns on building and downloading messages.

See Also

Other in project management: [prj_build](#), [prj_init](#), [prj_install_deps](#), [prj_load](#), [prj_lock_env](#), [prj_pack](#), [prj_start_package](#), [prj_start](#), [prj_unload](#), [prj_zip](#)

Examples

```
# create exemplary project base folder
prj_base <- tempfile("example_")
dir.create(prj_base, recursive = TRUE, showWarnings = FALSE)

# start project
prj <- prj_start("my_project", skip_rc = TRUE, path = prj_base)

# add colorspace to master script
master_script_fpath <- file.path(prj$path, "R", "master.R")
write("library(colorspace)", file = master_script_fpath, append = TRUE)

# install colorspace into project local environment
prj_install_deps(prj = prj)

# remove dependency to colorspace
writeLines(head(readLines(master_script_fpath), n = -1),
           con = master_script_fpath)

# uninstall colorspace from project local environment
prj_clean_deps(prj = prj)
```

```
prj_config_set_repo_adapters
```

Updates project configuration to use only specified repository adapters.

Description

Updates project configuration to use only specified repository adapters.

Usage

```
prj_config_set_repo_adapters(repos, prj = NULL)
```

Arguments

repos	vector of repository adapters configuration to use by the project. Each should be in form <repo_adapter_name>[<arg>]. They should be all registered. (type: character)
prj	project object to update configuration for. If not passed the loaded project will be used or the default whichever exists. Will init the default project from the working directory if no default project exists. (type: rsuite_project, default: NULL)

Details

Project configuration (together with repositories to be used) is stored in PARAMETERS file in the project folder.

After project configuration have been changed repository adapters are initialized on the project.

Repository adapters will be used for dependencies detection in the same order as passed in names.

See Also

Other in project configuration: [prj_config_set_rversion](#)

Examples

```
# create exemplary project base folder
prj_base <- tempfile("example_")
dir.create(prj_base, recursive = TRUE, showWarnings = FALSE)

# start project
prj <- prj_start("my_project", skip_rc = TRUE, path = prj_base)

# present initial project configuration
cat(readLines(file.path(prj$path, "PARAMETERS")), sep = "\n")

# set repositories to use
prj_config_set_repo_adapters(c("CRAN", "MRAN[2018-01-01]"), prj = prj)

# present final project configuration
cat(readLines(file.path(prj$path, "PARAMETERS")), sep = "\n")
```

`prj_config_set_rversion`*Updates project configuration to use specified R Version.*

Description

Project configuration (together with R version to be used) is stored in PARAMETERS file in the project folder.

Usage

```
prj_config_set_rversion(rver, prj = NULL, validate = TRUE)
```

Arguments

<code>rver</code>	R version to be used by the project. (type: character)
<code>prj</code>	project object to update configuration for. If not passed the loaded project will be used or the default whichever exists. Will init default project from the working directory if no default project exists. (type: rsuite_project, default: NULL)
<code>validate</code>	If TRUE will check if R version is valid for the platform. (type: logical, default: TRUE)

See Also

Other in project configuration: [prj_config_set_repo_adapters](#)

Examples

```
# create exemplary project base folder
prj_base <- tempfile("example_")
dir.create(prj_base, recursive = TRUE, showWarnings = FALSE)

# start project
prj <- prj_start("my_project", skip_rc = TRUE, path = prj_base)

# present initial project configuration
cat(readLines(file.path(prj$path, "PARAMETERS")), sep = "\n")

# set repositories to use
prj_config_set_rversion("3.2", prj = prj, validate = FALSE)

# present final project configuration
cat(readLines(file.path(prj$path, "PARAMETERS")), sep = "\n")
```

`prj_init`*Loads project settings without loading them into the environment.*

Description

Loads project settings without loading them into the environment.

Usage

```
prj_init(path = getwd())
```

Arguments

`path` path to start searching project base folder from. Search is performed upwards folder structure. Should be existing directory. (type: character, default: getwd())

Details

Project parameters are searched and loaded. If the project has been loaded previously from the path the same project instance will be used without reloading.

If the project is the first one loaded it will become the default project (used then NULL is passed as the project for project management functions).

Value

object of type `rsuite_project`

See Also

Other in project management: [prj_build](#), [prj_clean_deps](#), [prj_install_deps](#), [prj_load](#), [prj_lock_env](#), [prj_pack](#), [prj_start_package](#), [prj_start](#), [prj_unload](#), [prj_zip](#)

Examples

```
# create exemplary project base folder
prj_base <- tempfile("example_")
dir.create(prj_base, recursive = TRUE, showWarnings = FALSE)

# start project
prj_start("my_project", skip_rc = TRUE, path = prj_base)

# init project
prj <- prj_init(path = file.path(prj_base, "my_project"))
```

prj_install_deps *Installs project dependencies and needed supportive packages.*

Description

Installs project dependencies and needed supportive packages.

Usage

```
prj_install_deps(prj = NULL, clean = FALSE, vanilla_sups = FALSE,
  relock = FALSE)
```

Arguments

prj	project to collect dependencies for if not passed will build project for working directory. (type: rsuite_project, default: NULL)
clean	if TRUE clear environment before installing package dependencies. (type: logical, default: FALSE)
vanilla_sups	if TRUE install only base supportive packages (like devtools & roxygen2). (type: logical, default: FALSE)
relock	if TRUE allows updating the env.lock file (type: logical, default: FALSE)

Details

Logs all messages from the building process onto the rsuite logger. Use `logging::setLevel` to control logs verbosity. `DEBUG` level turns on building and downloading messages.

Value

TRUE if all build successfully.

See Also

Other in project management: [prj_build](#), [prj_clean_deps](#), [prj_init](#), [prj_load](#), [prj_lock_env](#), [prj_pack](#), [prj_start_package](#), [prj_start](#), [prj_unload](#), [prj_zip](#)

Examples

```
# create exemplary project base folder
prj_base <- tempfile("example_")
dir.create(prj_base, recursive = TRUE, showWarnings = FALSE)

# start project
prj <- prj_start("my_project", skip_rc = TRUE, path = prj_base)

# reinstall logging package into project environment
prj_install_deps(prj = prj, clean = TRUE)
```

`prj_load`*Loads project into the environment so all master scripts can run.*

Description

It changes `.libPaths()` so project internal environment is visible for R. Use [prj_unload](#) to restore your environment.

Usage

```
prj_load(path, prj = NULL)
```

Arguments

<code>path</code>	if <code>prj</code> is <code>NULL</code> , the path will be used to init new project to load. If passed must be existing folder path. (type: character)
<code>prj</code>	project to load or <code>NULL</code> to use path for new project initialization. If not path passed project will be initialized from working folder. (type: <code>rsuite_project</code> , default: <code>NULL</code>)

Value

previously loaded project or `NULL` if no project has been loaded.

See Also

Other in project management: [prj_build](#), [prj_clean_deps](#), [prj_init](#), [prj_install_deps](#), [prj_lock_env](#), [prj_pack](#), [prj_start_package](#), [prj_start](#), [prj_unload](#), [prj_zip](#)

Examples

```
# create exemplary project base folder
prj_base <- tempfile("example_")
dir.create(prj_base, recursive = TRUE, showWarnings = FALSE)

# start project
prj <- prj_start("my_project", skip_rc = TRUE, path = prj_base)

cat(.libPaths(), sep = "\n") # show initial contents of .libPaths()

prj_load(prj = prj) # load project
cat(.libPaths(), sep = "\n") # show contents of .libPaths()

prj_unload() # restore environment
cat(.libPaths(), sep = "\n") # show final contents of .libPaths()
```

prj_lock_env	<i>Locks the project environment.</i>
--------------	---------------------------------------

Description

It collects all dependencies' versions and stores them in lock file to enforce exact dependency versions in the future.

Usage

```
prj_lock_env(prj = NULL)
```

Arguments

prj	project object to be locked. If not passed the loaded project will be locked or the default whichever exists. Will init default project from the working directory if no default project exists. (type: rsuite_project, default: NULL)
-----	--

Details

The lock file is saved in <my_project>/deployment/ under 'env.lock' name. It is in dcf format with information about packages installed in local project environment together with their versions. A sample record from the lock file:

```
Package: RSuite  
Version: 0.26.235
```

When dependencies are being installed (using [prj_install_deps](#)) the 'env.lock' file will be used to detect whether any package will change versions. If that's the case a warning message will be displayed like this:

```
...:rsuite: The following packages will be updated from the last lock: colorspace  
The feature allows preventing errors caused by newer versions of packages which might work differently than previous versions used in the project.
```

See Also

Other in project management: [prj_build](#), [prj_clean_deps](#), [prj_init](#), [prj_install_deps](#), [prj_load](#), [prj_pack](#), [prj_start_package](#), [prj_start](#), [prj_unload](#), [prj_zip](#)

Examples

```
# create exemplary project base folder  
prj_base <- tempfile("example_")  
dir.create(prj_base, recursive = TRUE, showWarnings = FALSE)  
  
# start project  
prj <- prj_start("my_project", skip_rc = TRUE, path = prj_base)
```

```
# build project local environment
prj_install_deps(prj = prj)

# lock project environment
prj_lock_env(prj = prj)

# present contents of lock file created
cat(readLines(file.path(prj$path, "deployment", "env.lock")), sep = "\n")
```

prj_pack

Prepares project source pack tagged with version.

Description

It collects all sources and assemblies found in the project folder and packs them into a single zip file.

Usage

```
prj_pack(prj = NULL, path = getwd(), pkgs = NULL, inc_master = TRUE,
         pack_ver = NULL, rver = NULL)
```

Arguments

prj	project object to pack. if not passed the loaded project will be packed or the default whichever exists. Will init default project from the working directory if no default project exists. (type: rsuite_project, default: NULL)
path	folder path to put output pack into. The folder must exist. (type: character, default: getwd())
pkgs	names of packages to include in the pack. If NULL will include all project packages (type: character, default: NULL)
inc_master	if TRUE will include master scripts in the pack. (type: logical, default: TRUE)
pack_ver	if passed enforce the version of the pack to the passed value. Expected form of version is DD.DD. (type: character, default: NULL)
rver	if passed enforce destination R version of the pack. (type: character(1), default: NULL)

Details

The function is heavily used for building projects for alternative environments (like in docker).

Pack generated is stamped with version. It can be enforced with pack_ver parameter (zip will have suffix <pack_ver>x in the case). If the version is not enforced it is detected out of ZipVersion setting in project PARAMETERS file or from the maximal project packages version number. In that case, the revision number is appended to version: version number will be <ZipVersion>_<rc_ver>. Check for changes in project sources is performed for pack consistency. The resulted pack is marked with

the version detected so while building zip after unpacking will have the same version as the original project.

Before building pack project packages will have version altered: revision will be added as the least number to package version.

Logs all messages onto rsuite logger. Use `logging::setLevel` to control logs verbosity.

Value

invisible file path to pack file created. The file name will be in form `prjpack_<ProjectName>_<version>.zip`

See Also

Other in project management: [prj_build](#), [prj_clean_deps](#), [prj_init](#), [prj_install_deps](#), [prj_load](#), [prj_lock_env](#), [prj_start_package](#), [prj_start](#), [prj_unload](#), [prj_zip](#)

Examples

```
# create exemplary project base folder
prj_base <- tempfile("example_")
dir.create(prj_base, recursive = TRUE, showWarnings = FALSE)

# start project
prj <- prj_start("my_project", skip_rc = TRUE, path = prj_base)

# create package in the project
prj_start_package("mypackage", prj = prj, skip_rc = TRUE)

# build project source pack
pack_fpath <- prj_pack(prj = prj, path = tempdir(), pack_ver = "1.0")
```

`prj_start`

Creates project structure at the specified path.

Description

Creates project structure at the specified path.

Usage

```
prj_start(name = NULL, path = getwd(), skip_rc = FALSE,
  tpl = "builtin")
```

Arguments

name	name of the project to create. It must not contain special characters like <code>\\"<</code> otherwise project folder could not be created. It can be NULL. If so project will be created at path directly with the name of the first folder. (type: character).
path	path to the folder where project structure should be created.
skip_rc	if TRUE skip adding project under revision control. (type: logical, default: FALSE)
tmpl	name of the project template (or path to it) to use for project structure creation. (type: character).

Details

The project is not loaded, just created.

If name passed folder under such name will be created and project structure will be placed under it. If not passed folder under path will contain project structure and project name will be assumed to be basename of the path.

Logs all messages from the building process onto the rsuite logger. Use `logging::setLevel` to control logs verbosity. DEBUG level turns on building and downloading messages.

Project templates have to include a PARAMETERS file

Value

rsuite_project object for the project just created.

See Also

Other in project management: [prj_build](#), [prj_clean_deps](#), [prj_init](#), [prj_install_deps](#), [prj_load](#), [prj_lock_env](#), [prj_pack](#), [prj_start_package](#), [prj_unload](#), [prj_zip](#)

Examples

```
# create exemplary project base folder
prj_base <- tempfile("example_")
dir.create(prj_base, recursive = TRUE, showWarnings = FALSE)

# start project
prj <- prj_start("my_project", skip_rc = TRUE, path = prj_base)
```

prj_start_package	<i>Creates package structure inside the project.</i>
-------------------	--

Description

Creates package structure inside the project.

Usage

```
prj_start_package(name, prj = NULL, skip_rc = FALSE, tmpl = "builtin")
```

Arguments

name	name of the package to create. It must not contain special characters like <code>\`<></code> otherwise package folder could not be created. It must not contain <code>_</code> also as it is requirement enforced on R package names. The folder must not exist. (type: character).
prj	project object to create the package in. If not passed will init project from working directory. (type: <code>rsuite_project</code> , default: <code>NULL</code>)
skip_rc	if <code>TRUE</code> skip adding package under revision control. (type: logical, default: <code>FALSE</code>)
tmpl	name of the package template (or path to it) to use for package structure creation. (type: character).

Details

It fails if the package exists already in the project.

Logs all messages from the building process onto the `rsuite` logger. Use `logging::setLevel` to control logs verbosity. `DEBUG` level turns on building and downloading messages.

Package templates have to include the following files: `DESCRIPTION`, `NAMESPACE`, `NEWS`

See Also

Other in project management: [prj_build](#), [prj_clean_deps](#), [prj_init](#), [prj_install_deps](#), [prj_load](#), [prj_lock_env](#), [prj_pack](#), [prj_start](#), [prj_unload](#), [prj_zip](#)

Examples

```
# create exemplary project base folder
prj_base <- tempfile("example_")
dir.create(prj_base, recursive = TRUE, showWarnings = FALSE)

# start project
prj <- prj_start("my_project", skip_rc = TRUE, path = prj_base)

# start package in it
prj_start_package("mypackage", prj = prj, skip_rc = TRUE)
```

prj_unload	<i>Unloads last loaded project.</i>
------------	-------------------------------------

Description

It changes `.libPaths()` removing all references to currently loaded project internal environment.

Usage

```
prj_unload()
```

Value

Project unloaded or NULL if there was no project to unload.

See Also

Other in project management: [prj_build](#), [prj_clean_deps](#), [prj_init](#), [prj_install_deps](#), [prj_load](#), [prj_lock_env](#), [prj_pack](#), [prj_start_package](#), [prj_start](#), [prj_zip](#)

Examples

```
# create exemplary project base folder
prj_base <- tempfile("example_")
dir.create(prj_base, recursive = TRUE, showWarnings = FALSE)

# start project
prj <- prj_start("my_project", skip_rc = TRUE, path = prj_base)

cat(.libPaths(), sep = "\n") # show initial contents of .libPaths()

prj_load(prj = prj) # load project
cat(.libPaths(), sep = "\n") # show contents of .libPaths()

prj_unload() # restore environment
cat(.libPaths(), sep = "\n") # show final contents of .libPaths()
```

prj_unlock_env	<i>Unlocks the project environment.</i>
----------------	---

Description

It removes the lock file created with [prj_lock_env](#). If the project environment is not locked (there is no lock file) the `prj_unlock_env` will fail.

Usage

```
prj_unlock_env(prj = NULL)
```

Arguments

prj project object to be unlocked. if not passed the loaded project will be locked or the default whichever exists. Will init default project from the working directory if no default project exists. (type: rsuite_project, default: NULL)

Examples

```
# create exemplary project base folder
prj_base <- tempfile("example_")
dir.create(prj_base, recursive = TRUE, showWarnings = FALSE)

# start project
prj <- prj_start("my_project", skip_rc = TRUE, path = prj_base)

# build project local environment
prj_install_deps(prj = prj)

# lock project environment
prj_lock_env(prj = prj)

# unlock project environment
prj_unlock_env(prj = prj)
```

prj_zip

Prepares deployment zip tagged with version.

Description

It collects all dependencies and project packages installed in local project environment together with master scripts and artifacts and zips them into a single zip file.

Usage

```
prj_zip(prj = NULL, path = getwd(), zip_ver = NULL)
```

Arguments

prj project object to zip. if not passed will zip the loaded project or the default whichever exists. Will init default project from the working directory if no default project exists. (type: rsuite_project, default: NULL)

path folder path to put output zip into. If the folder does not exist, will create it. (type: character: default: getwd())

zip_ver if passed enforce the version of the zip package to the passed value. Expected form of version is DD.DD. (type: character, default: NULL)

Details

Zip package generated is stamped with version. It can be enforced with zip_ver parameter (zip will have suffix <zip_ver>x in the case). If the version is not enforced it is detected out of ZipVersion setting in project PARAMETERS file or from the maximal project packages version number. In that case, revision number is appended to version: version number will be <zip_ver>_<rc_ver>. Check for changes in project sources is performed for zip package consistency.

Before building zip package project is built. If revision number detected project packages will have version altered: revision will be added as least number to package version.

Logs all messages from the building process onto rsuite logger. Use logging::setLevel to control logs verbosity. DEBUG level turns on building and downloading messages.

Value

invisible file path to pack file created. The file name will be in form <ProjectName>_<version>.zip

See Also

Other in project management: [prj_build](#), [prj_clean_deps](#), [prj_init](#), [prj_install_deps](#), [prj_load](#), [prj_lock_env](#), [prj_pack](#), [prj_start_package](#), [prj_start](#), [prj_unload](#)

Examples

```
# create exemplary project base folder
prj_base <- tempfile("example_")
dir.create(prj_base, recursive = TRUE, showWarnings = FALSE)

# start project
prj <- prj_start("my_project", skip_rc = TRUE, path = prj_base)

# build deployment zip
zip_fpath <- prj_zip(prj = prj, path = tempdir(), zip_ver = "1.0")
```

rc_adapter_create_base

Creates the base presentation for the RC adapter to use by concrete implementations.

Description

Creates the base presentation for the RC adapter to use by concrete implementations.

Usage

```
rc_adapter_create_base(name)
```

Arguments

name name under which RC adapter will be registered in RSuite. It cannot contain whitespaces or comma. (type: character)

Value

object of type rsuite_rc_adapter

See Also

Other in extending RSuite with RC adapter: [rc_adapter_get_version](#), [rc_adapter_is_under_control](#), [rc_adapter_pkg_struct_add](#), [rc_adapter_prj_struct_add](#), [rc_adapter_remove_admins](#)

Examples

```
# create you own RC adapter
rc_adapter_create_own <- function() {
  result <- rc_adapter_create_base("Own")
  class(result) <- c("rc_adapter_own", class(result))
  return(result)
}
```

rc_adapter_get_version

Retrieves current RC version number for working copy at directory passed.

Description

Retrieves current RC version number for working copy at directory passed.

Usage

```
rc_adapter_get_version(rc_adapter, dir)
```

Arguments

rc_adapter rc adapter object
dir path to the directory to get the version for. The folder must exist (type: character)

Value

named list with following entries:

has_changes TRUE if changes detected by RC in the directory. (type: logical)

revision revision reported by RC. (type: character)

latest the latest revision reported by RC at the repository. (type: character)

See Also

Other in extending RSuite with RC adapter: [rc_adapter_create_base](#), [rc_adapter_is_under_control](#), [rc_adapter_pkg_struct_add](#), [rc_adapter_prj_struct_add](#), [rc_adapter_remove_admins](#)

Examples

```
# create you own RC adapter
rc_adapter_create_own <- function() {
  result <- rc_adapter_create_base("Own")
  class(result) <- c("rc_adapter_own", class(result))
  return(result)
}

#' @export
rc_adapter_get_version.rc_adapter_own <- function(rc_adapter, dir) {
  # ... detect if working copy is consistent with repository state ...
  return(list(has_changes = TRUE,
             revision = "0.0",
             latest = FALSE))
}
```

rc_adapter_is_under_control

Detects if dir is under adapter's managed version control.

Description

Detects if dir is under adapter's managed version control.

Usage

```
rc_adapter_is_under_control(rc_adapter, dir)
```

Arguments

rc_adapter	rc adapter object
dir	path to the directory to check. The folder must exist (type: character)

Value

TRUE if dir is under version control.

See Also

Other in extending RSuite with RC adapter: [rc_adapter_create_base](#), [rc_adapter_get_version](#), [rc_adapter_pkg_struct_add](#), [rc_adapter_prj_struct_add](#), [rc_adapter_remove_admins](#)

Examples

```
# create you own RC adapter
rc_adapter_create_own <- function() {
  result <- rc_adapter_create_base("Own")
  class(result) <- c("rc_adapter_own", class(result))
  return(result)
}

#' @export
rc_adapter_is_under_control.rc_adapter_own <- function(rc_adapter, dir) {
  # ... check ...
  return(TRUE)
}
```

rc_adapter_pkg_struct_add

Puts the package structure under RC adapter's managed version control.

Description

Puts the package structure under RC adapter's managed version control.

Usage

```
rc_adapter_pkg_struct_add(rc_adapter, params, name)
```

Arguments

rc_adapter	rc adapter object
params	rsuite_project_params object of the project.
name	name of the package to put under RC adapter's managed version control. Appropriate sub-folder must exist in project packages folder. (type: character)

See Also

Other in extending RSuite with RC adapter: [rc_adapter_create_base](#), [rc_adapter_get_version](#), [rc_adapter_is_under_control](#), [rc_adapter_prj_struct_add](#), [rc_adapter_remove_admins](#)

Examples

```
# create you own RC adapter
rc_adapter_create_own <- function() {
  result <- rc_adapter_create_base("Own")
  class(result) <- c("rc_adapter_own", class(result))
  return(result)
}
```

```
#' @export
rc_adapter_pkg_struct_add.rc_adapter_own <- function(rc_adapter, params, name) {
  # ... add package specified by name under RC in project specified by params ...
}
```

```
rc_adapter_prj_struct_add
```

Puts project structure under RC adapter's managed version control.

Description

Puts project structure under RC adapter's managed version control.

Usage

```
rc_adapter_prj_struct_add(rc_adapter, params)
```

Arguments

rc_adapter	rc adapter object
params	rsuite_project_params object of the project.

See Also

Other in extending RSuite with RC adapter: [rc_adapter_create_base](#), [rc_adapter_get_version](#), [rc_adapter_is_under_control](#), [rc_adapter_pkg_struct_add](#), [rc_adapter_remove_admins](#)

Examples

```
# create you own RC adapter
rc_adapter_create_own <- function() {
  result <- rc_adapter_create_base("Own")
  class(result) <- c("rc_adapter_own", class(result))
  return(result)
}

#' @export
rc_adapter_prj_struct_add.rc_adapter_own <- function(rc_adapter, params) {
  # ... add project specified by params under RC ...
}
```

`rc_adapter_remove_admins`*Remove all RC related administrative entries from folder tree at dir.*

Description

This is required for cleaning temporary folder during collecting entries to put into project zip package.

Usage

```
rc_adapter_remove_admins(rc_adapter, dir)
```

Arguments

<code>rc_adapter</code>	rc adapter object
<code>dir</code>	path to the directory to remove administrators from. The folder must exist (type: character)

See Also

Other in extending RSuite with RC adapter: [rc_adapter_create_base](#), [rc_adapter_get_version](#), [rc_adapter_is_under_control](#), [rc_adapter_pkg_struct_add](#), [rc_adapter_prj_struct_add](#)

Examples

```
# create you own RC adapter
rc_adapter_create_own <- function() {
  result <- rc_adapter_create_base("Own")
  class(result) <- c("rc_adapter_own", class(result))
  return(result)
}

#' @export
rc_adapter_remove_admins.rc_adapter_own <- function(rc_adapter, dir) {
  # ... unlink RC administrative folders from dir (like .svn or .git) ...
}
```

repo_adapter_create_base

Creates base presentation for repo adapter to use by concrete implementations.

Description

Creates base presentation for repo adapter to use by concrete implementations.

Usage

```
repo_adapter_create_base(name)
```

Arguments

name name under which repository adapter will be registered in RSuite. It cannot contain whitespaces or comma. (type: character)

Value

object of type rsuite_repo_adapter

See Also

Other in extending RSuite with Repo adapter: [repo_adapter_create_manager](#), [repo_adapter_get_info](#), [repo_adapter_get_path](#), [repo_manager_destroy](#), [repo_manager_get_info](#), [repo_manager_init](#), [repo_manager_remove](#), [repo_manager_upload](#)

Examples

```
# create you own Repo adapter
repo_adapter_create_own <- function() {
  result <- repo_adapter_create_base("Own")
  class(result) <- c("repo_adapter_own", class(result))
  return(result)
}
```

repo_adapter_create_manager

Creates repo manager to manage its repository.

Description

For repositories which need some kind of connection to manage it initializes appropriate resources.

Usage

```
repo_adapter_create_manager(repo_adapter, ...)
```

Arguments

```
repo_adapter  repo adapter on which manager is base. (type: rsuite_repo_adapter)
...          manager specific parameters.
```

Details

Raises an error if fails to create the manager.

Value

object of type rsuite_repo_adapter

See Also

Other in extending RSuite with Repo adapter: [repo_adapter_create_base](#), [repo_adapter_get_info](#), [repo_adapter_get_path](#), [repo_manager_destroy](#), [repo_manager_get_info](#), [repo_manager_init](#), [repo_manager_remove](#), [repo_manager_upload](#)

Examples

```
# create you own Repo adapter
repo_adapter_create_own <- function() {
  result <- repo_adapter_create_base("Own")
  class(result) <- c("repo_adapter_own", class(result))
  return(result)
}

#' @export
repo_adapter_create_manager.repo_adapter_own <- function(repo_adapter, ...) {
  repo_manager <- list() # create you own repo manager
  class(repo_manager) <- c("repo_manager_own", "rsuite_repo_manager")
  return(repo_manager)
}
```

repo_adapter_get_info *Returns information about repository the adapter is working on.*

Description

Returns information about repository the adapter is working on.

Usage

```
repo_adapter_get_info(repo_adapter, params)
```

Arguments

repo_adapter repo adapter object
 params rsuite_project_params object

Value

named list with following entries:

readonly TRUE if the repository is for reading only (type:logical)

reliable TRUE if the content of the repository does not change over time unless repository changes enforce changes of the project itself (like project local repository) (type: logical).

See Also

Other in extending RSuite with Repo adapter: [repo_adapter_create_base](#), [repo_adapter_create_manager](#), [repo_adapter_get_path](#), [repo_manager_destroy](#), [repo_manager_get_info](#), [repo_manager_init](#), [repo_manager_remove](#), [repo_manager_upload](#)

Examples

```
# create you own Repo adapter
repo_adapter_create_own <- function() {
  result <- repo_adapter_create_base("Own")
  class(result) <- c("repo_adapter_own", class(result))
  return(result)
}

#' @export
repo_adapter_get_info.repo_adapter_own <- function(repo_adapter, params) {
  return(list(
    readonly = TRUE, # cannot be managed
    reliable = FALSE # package versions can change in time
  ))
}
```

repo_adapter_get_path *Returns the adapter path related to the project to use for dependencies resolution.*

Description

Returns the adapter path related to the project to use for dependencies resolution.

Usage

```
repo_adapter_get_path(repo_adapter, params, ix = NA)
```

Arguments

repo_adapter	repo adapter object
params	rsuite_project_params object
ix	repo adapter index in project repositories or NA to retrieve all paths for the adapter. (type: integer, default: NA)

Value

path to the repository for the project.

See Also

Other in extending RSuite with Repo adapter: [repo_adapter_create_base](#), [repo_adapter_create_manager](#), [repo_adapter_get_info](#), [repo_manager_destroy](#), [repo_manager_get_info](#), [repo_manager_init](#), [repo_manager_remove](#), [repo_manager_upload](#)

Examples

```
# create you own Repo adapter
repo_adapter_create_own <- function() {
  result <- repo_adapter_create_base("Own")
  class(result) <- c("repo_adapter_own", class(result))
  return(result)
}

#' @export
repo_adapter_get_path.repo_adapter_own <- function(repo_adapter, params, ix = NA) {
  # get arguments of the repo adapter specified in project PARAMETERS
  arg <- params$get_repo_adapter_arg(repo_adapter$name, default = "", ix = ix)
  url <- "https://..." # make url to repository base on arg
  return(url)
}
```

repo_manager_destroy *Releases resources allocated to manage the repository.*

Description

For repositories which need some kind of connection to manage it cleans up previously initialized connection and releases all appropriate resources.

Usage

```
repo_manager_destroy(repo_manager)
```

Arguments

repo_manager repo adapter object.

See Also

Other in extending RSuite with Repo adapter: [repo_adapter_create_base](#), [repo_adapter_create_manager](#), [repo_adapter_get_info](#), [repo_adapter_get_path](#), [repo_manager_get_info](#), [repo_manager_init](#), [repo_manager_remove](#), [repo_manager_upload](#)

Examples

```
# create you own repo adapter
repo_adapter_create_own <- function() {
  result <- repo_adapter_create_base("Own")
  class(result) <- c("repo_adapter_own", class(result))
  return(result)
}

#' create own repo manager
#' @export
repo_adapter_create_manager.repo_adapter_own <- function(repo_adapter, ...) {
  repo_manager <- list() # create you own repo manager
  class(repo_manager) <- c("repo_manager_own", "rsuite_repo_manager")
  return(repo_manager)
}

#' @export
repo_manager_destroy.repo_manager_own <- function(repo_manager) {
  # ... release resources ...
}
```

repo_manager_get_info *Returns information on repo manager.*

Description

Returns information on repo manager.

Usage

```
repo_manager_get_info(repo_manager)
```

Arguments

repo_manager repo manager object

Value

named list with following entries:

types Types of packages manager can manage. (type: character)

rver R version repo manager is managing. NA if repo manager is managing source packages.
(type: character)

url Url to the repository. (type: character)

See Also

Other in extending RSuite with Repo adapter: [repo_adapter_create_base](#), [repo_adapter_create_manager](#), [repo_adapter_get_info](#), [repo_adapter_get_path](#), [repo_manager_destroy](#), [repo_manager_init](#), [repo_manager_remove](#), [repo_manager_upload](#)

Examples

```
# create you own Repo adapter
repo_adapter_create_own <- function() {
  result <- repo_adapter_create_base("Own")
  class(result) <- c("repo_adapter_own", class(result))
  return(result)
}

#' create own repo manager
#' @export
repo_adapter_create_manager.repo_adapter_own <- function(repo_adapter, ...) {
  repo_manager <- list() # create you own repo manager
  class(repo_manager) <- c("repo_manager_own", "rsuite_repo_manager")
  return(repo_manager)
}

#' @export
repo_manager_get_info.repo_manager_own <- function(repo_manager) {
  return(list(
    types = c("source", "win-binary"), # package types supported by the manager
    rver = "3.5", # R version supported by the manager
    url = "file:///..." # base URL of repository
  ))
}
```

repo_manager_init	<i>Initializes managed repository structure.</i>
-------------------	--

Description

Initializes managed repository structure.

Usage

```
repo_manager_init(repo_manager, types)
```

Arguments

```
repo_manager  repo manager object
types         package types for which repository should be initialized. If missing all project
              supported package types will be initialized (type: character)
```

Value

TRUE if initialized repository for at least one type, FALSE if the structure was fully initialized already. (type:logical, invisible)

See Also

Other in extending RSuite with Repo adapter: [repo_adapter_create_base](#), [repo_adapter_create_manager](#), [repo_adapter_get_info](#), [repo_adapter_get_path](#), [repo_manager_destroy](#), [repo_manager_get_info](#), [repo_manager_remove](#), [repo_manager_upload](#)

Examples

```
# create you own Repo adapter
repo_adapter_create_own <- function() {
  result <- repo_adapter_create_base("Own")
  class(result) <- c("repo_adapter_own", class(result))
  return(result)
}

#' create own repo manager
#' @export
repo_adapter_create_manager.repo_adapter_own <- function(repo_adapter, ...) {
  repo_manager <- list() # create you own repo manager
  class(repo_manager) <- c("repo_manager_own", "rsuite_repo_manager")
  return(repo_manager)
}

#' @export
repo_manager_init.repo_manager_own <- function(repo_manager, types) {
  was_inited_already <- TRUE
  # ... if repository structure was not initialized initialize it ...
  return(invisible(was_inited_already))
}
```

repo_manager_remove *Removes specified packages from the repository.*

Description

Removes specified packages from the repository.

Usage

```
repo_manager_remove(repo_manager, toremove, type)
```

Arguments

repo_manager	repo manager object.
toremove	data.frame with at least Package(type:character) and Version(type: character) columns. (type: data.frame)
type	package type to remove

Value

data.frame containing packages removed with Package and Version columns.

See Also

Other in extending RSuite with Repo adapter: [repo_adapter_create_base](#), [repo_adapter_create_manager](#), [repo_adapter_get_info](#), [repo_adapter_get_path](#), [repo_manager_destroy](#), [repo_manager_get_info](#), [repo_manager_init](#), [repo_manager_upload](#)

Examples

```
# create your own repo adapter
repo_adapter_create_own <- function() {
  result <- repo_adapter_create_base("Own")
  class(result) <- c("repo_adapter_own", class(result))
  return(result)
}

#' create own repo manager
#' @export
repo_adapter_create_manager.repo_adapter_own <- function(repo_adapter, ...) {
  repo_manager <- list() # create you own repo manager
  class(repo_manager) <- c("repo_manager_own", "rsuite_repo_manager")
  return(repo_manager)
}

#' @export
repo_manager_remove.repo_manager_own <- function(repo_manager, toremove, type) {
  # ... remove packages from the repository ...
}
```

```

# ... update PACKAGES ...
return(data.frame(Package = c(), # return packages removed
                  Version = c(),
                  stringsAsFactors = FALSE))
}

```

repo_manager_upload *Adds packages to the managed repository.*

Description

Adds packages to the managed repository.

Usage

```
repo_manager_upload(repo_manager, src_dir, types)
```

Arguments

repo_manager repo manager object.

src_dir local directory repository path. The directory must exist. (type: character)

types type of packages to sync. If missing all project supported package types will be synced. (type: character(N))

See Also

Other in extending RSuite with Repo adapter: [repo_adapter_create_base](#), [repo_adapter_create_manager](#), [repo_adapter_get_info](#), [repo_adapter_get_path](#), [repo_manager_destroy](#), [repo_manager_get_info](#), [repo_manager_init](#), [repo_manager_remove](#)

Examples

```

# create you own repo adapter
repo_adapter_create_own <- function() {
  result <- repo_adapter_create_base("Own")
  class(result) <- c("repo_adapter_own", class(result))
  return(result)
}

#' create own repo manager
#' @export
repo_adapter_create_manager.repo_adapter_own <- function(repo_adapter, ...) {
  repo_manager <- list() # create you own repo manager
  class(repo_manager) <- c("repo_manager_own", "rsuite_repo_manager")
  return(repo_manager)
}

#' @export

```

```
repo_manager_upload.repo_manager_own <- function(repo_manager, src_dir, types) {  
  # ... upload packages in src_dir into the repository ...  
  # ... update PACKAGES ...  
}
```

repo_mng_init	<i>Initializes repository (creates its structure).</i>
---------------	--

Description

Initializes repository (creates its structure).

Usage

```
repo_mng_init(repo_manager)
```

Arguments

repo_manager repo manager object retrieved with `repo_mgr_start`. (type: `rsuite_repo_manager`)

See Also

Other in repository management: [repo_mng_list](#), [repo_mng_remove](#), [repo_mng_start](#), [repo_mng_stop](#), [repo_upload_bioc_package](#), [repo_upload_ext_packages](#), [repo_upload_github_package](#), [repo_upload_package_file](#), [repo_upload_pkgzip](#), [repo_upload_prj_packages](#)

Examples

```
# create exemplary project base folder  
prj_base <- tempfile("example_")  
dir.create(prj_base, recursive = TRUE, showWarnings = FALSE)  
  
# start project  
prj <- prj_start("my_project", skip_rc = TRUE, path = prj_base)  
  
# set it to use in project repository and CRAN  
prj_config_set_repo_adapters(c("Dir", "CRAN"), prj = prj)  
  
# start managing in project repository  
rmgr <- repo_mng_start("Dir", prj = prj, ix = 1)  
  
# initialize its structure  
repo_mng_init(rmgr)  
  
# stop repository management  
repo_mng_stop(rmgr)
```

repo_mng_list	<i>Retrieve the list of available packages in the repository.</i>
---------------	---

Description

Retrieve the list of available packages in the repository.

Usage

```
repo_mng_list(repo_manager, pkg_type = .Platform$pkgType, no.cache = FALSE)
```

Arguments

repo_manager	repo manager to retrieve package list from. (type: rsuite_repo_manager)
pkg_type	type of packages to retrieve list of. (type: character, default to platform default package type)
no.cache	if TRUE will delete cached list before retrieving. (type: logical(1), default: FALSE)

Value

data.frame of the same structure as available.packages returns.

See Also

Other in repository management: [repo_mng_init](#), [repo_mng_remove](#), [repo_mng_start](#), [repo_mng_stop](#), [repo_upload_bioc_package](#), [repo_upload_ext_packages](#), [repo_upload_github_package](#), [repo_upload_package_file](#), [repo_upload_pkgzip](#), [repo_upload_prj_packages](#)

Examples

```
# create exemplary project base folder
prj_base <- tempfile("example_")
dir.create(prj_base, recursive = TRUE, showWarnings = FALSE)

# start project
prj <- prj_start("my_project", skip_rc = TRUE, path = prj_base)

# set it to use in project repository and CRAN
prj_config_set_repo_adapters(c("Dir", "CRAN"), prj = prj)

# start managing in project repository
rmgr <- repo_mng_start("Dir", prj = prj, ix = 1)

# upload logging package from CRAN into the repository
repo_upload_ext_packages(rmgr, pkgs = "logging", prj = prj)
```

```
# list available packages
repo_mng_list(rmgr)

# stop repository management
repo_mng_stop(rmgr)
```

repo_mng_remove	<i>Removes packages from the repository.</i>
-----------------	--

Description

Removes packages from the repository.

Usage

```
repo_mng_remove(repo_manager, toremove, pkg_type = .Platform$pkgType)
```

Arguments

repo_manager	repo manager to remove packages from. (type: rsuite_repo_manager)
toremove	data.frame with same structure as available.packages returns. At lease Package and Version columns must be present. (type: data.frame)
pkg_type	type of packages to remove. (type: character, default: .Platform\$pkgType)

See Also

Other in repository management: [repo_mng_init](#), [repo_mng_list](#), [repo_mng_start](#), [repo_mng_stop](#), [repo_upload_bioc_package](#), [repo_upload_ext_packages](#), [repo_upload_github_package](#), [repo_upload_package_file](#), [repo_upload_pkgzip](#), [repo_upload_prj_packages](#)

Examples

```
# create exemplary project base folder
prj_base <- tempfile("example_")
dir.create(prj_base, recursive = TRUE, showWarnings = FALSE)

# start project
prj <- prj_start("my_project", skip_rc = TRUE, path = prj_base)

# set it to use in project repository and CRAN
prj_config_set_repo_adapters(c("Dir", "CRAN"), prj = prj)

# start managing in project repository
rmgr <- repo_mng_start("Dir", prj = prj, ix = 1)

# upload logging package from CRAN into the repository
```

```
repo_upload_ext_packages(rmgr, pkgs = "logging", prj = prj)

# list available packages before removal
avail_pkgs <- repo_mng_list(rmgr)
avail_pkgs

# remove logging from the repository
repo_mng_remove(rmgr, avail_pkgs[avail_pkgs$Package == "logging", ])

# list available packages after removal
repo_mng_list(rmgr)

# stop repository management
repo_mng_stop(rmgr)
```

repo_mng_start	<i>Starts management over the repository.</i>
----------------	---

Description

Creates object to manage the repository.

Usage

```
repo_mng_start(ra_name, ...)
```

Arguments

ra_name	name of the repository to whose adapter will be re-initialized. (type: character)
...	repository specific parameters. See <code>repo_adapter_create_manager</code> for the concrete implementation of repo adapter for more details.

Value

repo manager object.

See Also

Other in repository management: [repo_mng_init](#), [repo_mng_list](#), [repo_mng_remove](#), [repo_mng_stop](#), [repo_upload_bioc_package](#), [repo_upload_ext_packages](#), [repo_upload_github_package](#), [repo_upload_package_file](#), [repo_upload_pkgzip](#), [repo_upload_prj_packages](#)

Examples

```
# create exemplary project base folder
prj_base <- tempfile("example_")
dir.create(prj_base, recursive = TRUE, showWarnings = FALSE)

# start project
prj <- prj_start("my_project", skip_rc = TRUE, path = prj_base)

# set it to use in project repository and CRAN
prj_config_set_repo_adapters(c("Dir", "CRAN"), prj = prj)

# start managing in project repository
rmgr <- repo_mng_start("Dir", prj = prj, ix = 1)

# stop repository management
repo_mng_stop(rmgr)
```

repo_mng_stop	<i>Stops management over the repository.</i>
---------------	--

Description

Stops management over the repository.

Usage

```
repo_mng_stop(repo_manager)
```

Arguments

repo_manager repo manager object retrieved with `repo_mgr_start`. (type: `rsuite_repo_manager`)

See Also

Other in repository management: [repo_mng_init](#), [repo_mng_list](#), [repo_mng_remove](#), [repo_mng_start](#), [repo_upload_bioc_package](#), [repo_upload_ext_packages](#), [repo_upload_github_package](#), [repo_upload_package_file](#), [repo_upload_pkgzip](#), [repo_upload_prj_packages](#)

Examples

```
# create exemplary project base folder
prj_base <- tempfile("example_")
dir.create(prj_base, recursive = TRUE, showWarnings = FALSE)

# start project
prj <- prj_start("my_project", skip_rc = TRUE, path = prj_base)

# set it to use in project repository and CRAN
```

```

prj_config_set_repo_adapters(c("Dir", "CRAN"), prj = prj)

# start managing in project repository
rmgr <- repo_mng_start("Dir", prj = prj, ix = 1)

# stop repository management
repo_mng_stop(rmgr)

```

```
repo_upload_bioc_package
```

Loads package from the Bioconductor repository.

Description

It will download Bioconductor repository, build package into package file and will upload it into the repository. It will search dependencies in provided project's repositories.

Usage

```

repo_upload_bioc_package(repo_manager, repo, ..., prj = NULL,
  pkg_type = .Platform$pkgType, with_deps = FALSE,
  skip_build_steps = NULL, keep_sources = FALSE)

```

Arguments

repo_manager	repo manager to use for uploading. (type: rsuite_repo_manager)
repo	repository address in format [username:password@][release/]repo[#revision]. See devtools::install_bioc for more information.
...	Bioconductor specific parameters passed to devtools::install_bioc.
prj	project object to use. If not passed will init project from working directory. (type: rsuite_project, default: NULL)
pkg_type	type of packages to upload (type: character, default: platform default)
with_deps	If TRUE will include pkgs dependencies while uploading into the repository. Packages in repository satisfying pkgs requirements will not be included. (type: logical, default: FALSE)
skip_build_steps	character vector with steps to skip while building project packages. Can contain following entries: specs Process packages specifics docs Try build documentation with roxygen imps Perform imports validation tests Run package tests rcpp_attribs Run rppAttribs on the package vignettes Build package vignettes

(type: character(N), default: NULL).

keep_sources if TRUE downloaded package sources will not be removed after building. (type: logical, default: FALSE)

Details

Logs all messages onto rsuite logger. Use `logging::setLevel` to control logs verbosity.

See Also

Other in repository management: [repo_mng_init](#), [repo_mng_list](#), [repo_mng_remove](#), [repo_mng_start](#), [repo_mng_stop](#), [repo_upload_ext_packages](#), [repo_upload_github_package](#), [repo_upload_package_files](#), [repo_upload_pkgzip](#), [repo_upload_prj_packages](#)

Examples

```
# create exemplary project base folder
prj_base <- tempfile("example_")
dir.create(prj_base, recursive = TRUE, showWarnings = FALSE)

# start project
prj <- prj_start("my_project", skip_rc = TRUE, path = prj_base)

# set it to use in project repository and CRAN
prj_config_set_repo_adapters(c("Dir", "CRAN"), prj = prj)

# start managing in project repository
rmgr <- repo_mng_start("Dir", prj = prj, ix = 1)

# upload logging package from cran repository
repo_upload_bioc_package(rmgr, repo = "BiocGenerics",
  prj = prj, pkg_type = "source")

# list available packages
repo_mng_list(rmgr, pkg_type = "source")

# stop repository management
repo_mng_stop(rmgr)
```

repo_upload_ext_packages

Uploads external packages into the managed repository.

Description

It uses the project to detect repositories to look for external packages in.

Usage

```
repo_upload_ext_packages(repo_manager, pkgs, prj = NULL,
  pkg_type = .Platform$pkgType, with_deps = FALSE)
```

Arguments

repo_manager	repo manager to use for uploading. (type: rsuite_repo_manager)
pkgs	vector of names of external packages which should be included in PKGZIP. (type: character)
prj	project object to use. If not passed will init project from working directory. (type: rsuite_project, default: NULL)
pkg_type	type of packages to upload (type: character, default: platform default)
with_deps	If TRUE will include pkgs dependencies while uploading into the repository. Packages in repository satisfying pkgs requirements will not be included. (type: logical, default: FALSE)

Details

Logs all messages onto rsuite logger. Use `logging::setLevel` to control logs verbosity.

See Also

Other in repository management: [repo_mng_init](#), [repo_mng_list](#), [repo_mng_remove](#), [repo_mng_start](#), [repo_mng_stop](#), [repo_upload_bioc_package](#), [repo_upload_github_package](#), [repo_upload_package_files](#), [repo_upload_pkgzip](#), [repo_upload_prj_packages](#)

Examples

```
# create exemplary project base folder
prj_base <- tempfile("example_")
dir.create(prj_base, recursive = TRUE, showWarnings = FALSE)

# start project
prj <- prj_start("my_project", skip_rc = TRUE, path = prj_base)

# set it to use in project repository and CRAN
prj_config_set_repo_adapters(c("Dir", "CRAN"), prj = prj)

# start managing in project repository
rmgr <- repo_mng_start("Dir", prj = prj, ix = 1)

# upload logging package from CRAN into the repository
repo_upload_ext_packages(rmgr, "logging", prj = prj, pkg_type = "source")

# list available packages
repo_mng_list(rmgr, pkg_type = "source")

# stop repository management
```

```
repo_mng_stop(rmgr)
```

```
repo_upload_github_package
```

Lloads package from the GitHub repository.

Description

It will download GitHub repository, build package into package file and will upload it into the repository. It will search dependencies in provided project's repositories.

Usage

```
repo_upload_github_package(repo_manager, repo, ..., prj = NULL,
  pkg_type = .Platform$pkgType, with_deps = FALSE,
  skip_build_steps = NULL, keep_sources = FALSE)
```

Arguments

repo_manager	repo manager to use for uploading. (type: rsuite_repo_manager)
repo	repository address in format username/repo[/subdir][\@refl#pull]. See devtools::install_github for more information.
...	GitHub specific parameters passed to devtools::install_github.
prj	project object to use. If not passed will init project from working directory. (type: rsuite_project, default: NULL)
pkg_type	type of packages to upload (type: character, default: platform default)
with_deps	If TRUE will include pkgs dependencies while uploading into the repository. Packages in repository satisfying pkgs requirements will not be included. (type: logical, default: FALSE)
skip_build_steps	character vector with steps to skip while building project packages. Can contain following entries: specs Process packages specifics docs Try build documentation with roxygen imps Perform imports validation tests Run package tests rcpp_attribs Run rppAttribs on the package vignettes Build package vignettes (type: character(N), default: NULL).
keep_sources	if TRUE downloaded package sources will not be removed after building. (type: logical, default: FALSE)

Details

Logs all messages onto rsuite logger. Use `logging::setLevel` to control logs verbosity.

See Also

Other in repository management: [repo_mng_init](#), [repo_mng_list](#), [repo_mng_remove](#), [repo_mng_start](#), [repo_mng_stop](#), [repo_upload_bioc_package](#), [repo_upload_ext_packages](#), [repo_upload_package_files](#), [repo_upload_pkgzip](#), [repo_upload_prj_packages](#)

Examples

```
# create exemplary project base folder
prj_base <- tempfile("example_")
dir.create(prj_base, recursive = TRUE, showWarnings = FALSE)

# start project
prj <- prj_start("my_project", skip_rc = TRUE, path = prj_base)

# set it to use in project repository and CRAN
prj_config_set_repo_adapters(c("Dir", "CRAN"), prj = prj)

# start managing in project repository
rmgr <- repo_mng_start("Dir", prj = prj, ix = 1)

# upload logging package from cran repository
repo_upload_github_package(rmgr, repo = "cran/logging",
                           prj = prj, pkg_type = "source")

# list available packages
repo_mng_list(rmgr, pkg_type = "source")

# stop repository management
repo_mng_stop(rmgr)
```

repo_upload_package_files

Uploads package file(s) into the managed repository.

Description

Uploads package file(s) into the managed repository.

Usage

```
repo_upload_package_files(repo_manager, files)
```

Arguments

repo_manager repo manager to use for uploading. (type: rsuite_repo_manager)
files vector of files to upload. (type: character)

Details

Logs all messages onto the rsuite logger. Use `logging::setLevel` to control logs verbosity.

See Also

Other in repository management: [repo_mng_init](#), [repo_mng_list](#), [repo_mng_remove](#), [repo_mng_start](#), [repo_mng_stop](#), [repo_upload_bioc_package](#), [repo_upload_ext_packages](#), [repo_upload_github_package](#), [repo_upload_pkgzip](#), [repo_upload_prj_packages](#)

Examples

```
# create exemplary project base folder
prj_base <- tempfile("example_")
dir.create(prj_base, recursive = TRUE, showWarnings = FALSE)

# start project
prj <- prj_start("my_project", skip_rc = TRUE, path = prj_base)

# set it to use in project repository and CRAN
prj_config_set_repo_adapters(c("Dir", "CRAN"), prj = prj)

# start managing in project repository
rmgr <- repo_mng_start("Dir", prj = prj, ix = 1)

# download logging package
pkg_fpath <- utils::download.packages("logging",
                                     repos = "https://cloud.r-project.org/",
                                     destdir = tempdir(),
                                     type = "source")[1,2]

# upload downloaded package into the repository
repo_upload_package_files(rmgr, files = pkg_fpath)

# list available packages
repo_mng_list(rmgr, pkg_type = "source")

# stop repository management
repo_mng_stop(rmgr)
```

repo_upload_pkgzip *Uploads PKGZIP into the managed repository.*

Description

Uploads PKGZIP into the managed repository.

Usage

```
repo_upload_pkgzip(repo_manager, pkgzip)
```

Arguments

repo_manager repo manager to use for uploading. (type: rsuite_repo_manager)
pkgzip PKGZIP path to upload. It must exist. (type: character(1))

Details

Logs all messages onto the rsuite logger. Use `logging::setLevel` to control logs verbosity.

See Also

Other in repository management: [repo_mng_init](#), [repo_mng_list](#), [repo_mng_remove](#), [repo_mng_start](#), [repo_mng_stop](#), [repo_upload_bioc_package](#), [repo_upload_ext_packages](#), [repo_upload_github_package](#), [repo_upload_package_files](#), [repo_upload_prj_packages](#)

Examples

```
# create exemplary project base folder
prj_base <- tempfile("example_")
dir.create(prj_base, recursive = TRUE, showWarnings = FALSE)

# start project
prj <- prj_start("my_project", skip_rc = TRUE, path = prj_base)

# set it to use in project repository and CRAN
prj_config_set_repo_adapters(c("Dir", "CRAN"), prj = prj)

# start managing in project repository
rmgr <- repo_mng_start("Dir", prj = prj, ix = 1)

# create PKGZIP containing logging package
pkgzip_fpath <- pkgzip_build_ext_packages("logging", prj = prj, pkg_type = "source",
                                         path = tempdir())

# upload PKGZIP into the repository
repo_upload_pkgzip(rmgr, pkgzip_fpath)
```



```
# list available packages
repo_mng_list(rmgr, pkg_type = "source")

# stop repository management
repo_mng_stop(rmgr)
```

```
repo_upload_prj_packages
```

Builds and uploads project package(s) into the repository.

Description

Builds and uploads project package(s) into the repository.

Usage

```
repo_upload_prj_packages(repo_manager, pkgs = NULL, prj = NULL,
  skip_rc = FALSE, pkg_type = .Platform$pkgType, with_deps = FALSE,
  skip_build_steps = NULL)
```

Arguments

repo_manager	repo manager to use for uploading. (type: rsuite_repo_manager)
pkgs	vector of project packages which should be uploaded into the repository or NULL to upload all project packages (type: character, default: NULL)
prj	project object to use. If not passed will init project from working directory. (type: rsuite_project, default: NULL)
skip_rc	if TRUE skip detection of package revision and package tagging. (type: logical, default: FALSE)
pkg_type	type of packages to upload (type: character, default: platform default)
with_deps	If TRUE will include pkgs dependencies while uploading into the repository. Packages in repository satisfying pkgs requirements will not be included. (type: logical, default: FALSE)
skip_build_steps	character vector with steps to skip while building project packages. Can contain following entries: specs Process packages specifics docs Try build documentation with roxygen imps Perform imports validation tests Run package tests rcpp_attribs Run rppAttribs on the package vignettes Build package vignettes (type: character(N), default: NULL).

Details

If not specified to skip RC it will detect revision version and tag packages before uploading. In that case, a check for changes in the project sources is performed for consistency and project packages will be rebuilt with version altered: revision will be added as the least number to package version.

Logs all messages onto the rsuite logger. Use `logging::setLevel` to control logs verbosity.

See Also

Other in repository management: [repo_mng_init](#), [repo_mng_list](#), [repo_mng_remove](#), [repo_mng_start](#), [repo_mng_stop](#), [repo_upload_bioc_package](#), [repo_upload_ext_packages](#), [repo_upload_github_package](#), [repo_upload_package_files](#), [repo_upload_pkgzip](#)

Examples

```
# create exemplary project base folder
prj_base <- tempfile("example_")
dir.create(prj_base, recursive = TRUE, showWarnings = FALSE)

# start src project
src_prj <- prj_start("my_project_src", skip_rc = TRUE, path = prj_base)

# create project package
prj_start_package("mypackage", prj = src_prj, skip_rc = TRUE)

# build project environment
prj_install_deps(prj = src_prj)

# start dest project
dst_prj <- prj_start("my_project_dst", skip_rc = TRUE, path = prj_base)

# set dest to use in project repository and CRAN
prj_config_set_repo_adapters(c("Dir", "CRAN"), prj = dst_prj)

# start managing in project repository
rmgr <- repo_mng_start("Dir", prj = dst_prj, ix = 1)

# upload mypackage from src into dest's in project repository
repo_upload_prj_packages(rmgr, prj = src_prj, skip_rc = TRUE)

# list available packages
repo_mng_list(rmgr)

# stop repository management
repo_mng_stop(rmgr)
```

Description

Supports safe and reproducible solutions development in R.

It will help you with environment separation per project, dependency management, local packages creation and preparing deployment packs for your solutions.

Package options

RSuite uses the following [options](#) to configure behavior:

- `rsuite.user_tmpl_path`: path to folder containing user customized templates. If not set (which is default) no user custom templates can be used.
- `rsuite.cache_path`: path to RSuite's cache folder to store downloaded packages for later usage and content index of used repositories. If not set (which is default) no caching will be performed.

Project management

These functions will help you start a new RSuite project or package inside it, detect and install dependencies into the local environment, build your project packages and prepare deployment zip when you are done with the development.

[prj_start](#) Creates project structure at the specified path.

[prj_start_package](#) Creates package structure inside a project.

[prj_install_deps](#) Installs project dependencies and needed supportive packages.

[prj_clean_deps](#) Uninstalls unused packages from project local environment.

[prj_build](#) Builds project internal packages and installs them.

[prj_zip](#) Prepares deployment zip tagged with version.

[prj_pack](#) Prepares project source pack tagged with version.

[prj_lock_env](#) Locks the project environment.

[prj_unlock_env](#) Unlocks the project environment.

Repository management

These functions make you able to manage package repositories. This RSuite built-in repository manager allows you to manage S3 based and local (in folder) repositories.

[repo_mng_start](#) Starts management over the repository.

[repo_mng_init](#) Initializes a repository (creates its structure).

[repo_mng_stop](#) Stops management over the repository.

[repo_mng_list](#) Retrieves the list of packages available in the repository.
[repo_mng_remove](#) Removes packages from the repository.
[repo_upload_prj_packages](#) Builds and uploads project package(s) into the repository.
[repo_upload_package_files](#) Uploads package file(s) into a managed repository.
[repo_upload_ext_packages](#) Uploads external packages into a managed repository.
[repo_upload_pkgzip](#) Uploads PKGZIP into a managed repository.
[repo_upload_github_package](#) Loads package from a GitHub repository.
[repo_upload_bioc_package](#) Loads package from a BioConductor repository.

PKGZIP building

PKGZIPs are for management of repositories in an internet-less environment. There is often no internet access on corporate servers. In that case, you can prepare a PKGZIP with required packages somewhere with an internet connection and use it to update an internal CRAN-like repository which has no access to the internet.

[pkgzip_build_prj_packages](#) Builds PKGZIP out of project packages.
[pkgzip_build_package_files](#) Builds PKGZIP out of passed package files.
[pkgzip_build_ext_packages](#) Builds PKGZIP out of passed external packages.
[pkgzip_build_github_package](#) Builds PKGZIP out of a package on GitHub.
[pkgzip_build_bioc_package](#) Builds PKGZIP out of a package on BioConductor.

RSuite miscellaneous

[rsuite_check_version](#) Checks if a newer version of RSuite is available.
[rsuite_update](#) Updates RSuite to the newest available version
[rsuite_register_repo_adapter](#) Registers repository adapter to use for projects.
[rsuite_get_repo_adapter_names](#) Gets all names of known repository adapters.
[rsuite_register_rc_adapter](#) Registers RC (revision control) adapter to use for projects.
[rsuite_unregister_rc_adapter](#) Unregisters RC (revision control) adapter.
[rsuite_get_rc_adapter_names](#) Gets all names of known RC (revision control) adapters.
[rsuite_getLogger](#) Retrieves RSuite logger.
[rsuite_get_os_info](#) Retrieves information on current OS.

Template management

These functions will help you to manage RSuite templates. They allow you to create a project and package templates, register them in the local or global template directory and list all registered templates.

[tmpl_start](#) Creates a new template.
[tmpl_list_registered](#) Lists all registered templates
[tmpl_register](#) Registers a template.

System requirements

Some packages have special system requirements declared. E.g. XML package on Linuxes requires the libxml2 system library to be installed. Such requirements are specified in free form in the SystemRequirements field in the package DESCRIPTION. The team from R Consortium (<https://www.r-consortium.org/>) performed a great job with collecting sysreqs database. As RSuite is supposed to work also in a connection-less environment the database they created is included in RSuite.

These functions extract system requirements for the whole project environment and make it possible to prepare installation scripts or update your system if you have privileged access.

`sysreqs_collect` Prints out all system requirements from dependencies and project packages.

`sysreqs_check` Checks for system requirements availability.

`sysreqs_install` Updates the system to satisfy detected requirements.

`sysreqs_script` Creates a script to update a system to satisfy project requirements.

Extending RSuite - RC adapter

This API allows you to implement your own RC (revision control) adapter for RSuite.

RSuite has SVN and Git adapters built-in for you.

After you developed your very own RC adapter you can register it in RSuite with the `rsuite_register_rc_adapter` function.

`rc_adapter_create_base` Creates a base presentation for RC adapter to use by concrete implementations.

`rc_adapter_is_under_control` Detects if directory is under adapter's managed version control.

`rc_adapter_prj_struct_add` Puts project structure under RC adapter's managed version control.

`rc_adapter_pkg_struct_add` Puts package structure under RC adapter's managed version control.

`rc_adapter_get_version` Retrieves current RC version number for working copy at the passed directory.

`rc_adapter_remove_admins` Removes all RC related administrative entries from folder tree at the directory.

Extending RSuite - Repository adapter and manager

This API allows you to implement your own repository adapter for RSuite. If the repository can be managed (you can add/remove/update packages in it) you can provide a repo manager object creation ability to manage it with RSuite.

RSuite has CRAN, MRAN, S3(Amazon S3 bucket base repository), Url(repository under Url) and Dir(local CRAN-like folder) repo adapters and Dir and S3 repo managers built-in for you.

After you develop your very own repository adapter you can register it in RSuite with the `rsuite_register_repo_adapter` function.

`repo_adapter_create_base` Creates the base presentation for the repo adapter to use by concrete implementations.

`repo_adapter_get_info` Returns information about the repository the adapter is working on.

`rc_adapter_prj_struct_add` Puts the project structure under RC adapter's managed version control.

`repo_adapter_get_path` Returns adapter path related to project to use for dependencies resolution.

`repo_adapter_create_manager` Creates repo manager to manage its repository.

`repo_manager_get_info` Returns information on repo manager.

`repo_manager_init` Initializes managed repository structure.

`repo_manager_upload` Adds packages to the managed repository.

`repo_manager_remove` Removes specified packages from the repository.

`repo_manager_destroy` Releases resources allocated to manage the repository.

Project access/loading/unloading

You normally will not need to use these functions unless you want to perform some scripting with use of RSuite.

`prj_init` Loads project settings without loading it into the environment.

`prj_load` Loads project into the environment so all master scripts can run.

`prj_unload` Unloads last loaded project.

Project configuration

These functions are a convenient way to change the project global configuration.

You normally will not need to use these functions unless you want to perform some scripting with use of RSuite.

`prj_config_set_repo_adapters` Updates the project configuration to use only specified repository adapters.

`prj_config_set_rversion` Updates the project configuration to use specified R Version.

`rsuite_check_version` *Checks if a newer version of RSuite is available.*

Description

Checks if a newer version of RSuite is available.

Usage

```
rsuite_check_version()
```

Value

NULL if a newer version is not available or newest available version number.

See Also

Other miscellaneous: [rsuite_getLogger](#), [rsuite_get_ci_adapter_names](#), [rsuite_get_os_info](#), [rsuite_get_rc_adapter_names](#), [rsuite_get_repo_adapter_names](#), [rsuite_register_ci_adapter](#), [rsuite_register_rc_adapter](#), [rsuite_register_repo_adapter](#), [rsuite_unregister_ci_adapter](#), [rsuite_unregister_rc_adapter](#), [rsuite_unregister_repo_adapter](#), [rsuite_update](#), [tmpl_register](#)

Examples

```
# print latest version available or NULL if latest is currently installed
rsuite_check_version()
```

rsuite_getLogger	<i>Retrieves RSuite logger.</i>
------------------	---------------------------------

Description

Retrieves RSuite logger.

Usage

```
rsuite_getLogger()
```

Value

logger object

See Also

Other miscellaneous: [rsuite_check_version](#), [rsuite_get_ci_adapter_names](#), [rsuite_get_os_info](#), [rsuite_get_rc_adapter_names](#), [rsuite_get_repo_adapter_names](#), [rsuite_register_ci_adapter](#), [rsuite_register_rc_adapter](#), [rsuite_register_repo_adapter](#), [rsuite_unregister_ci_adapter](#), [rsuite_unregister_rc_adapter](#), [rsuite_unregister_repo_adapter](#), [rsuite_update](#), [tmpl_register](#)

Examples

```
logging::loginfo("This is an INFO from RSuite", logger = rsuite_getLogger())
```

rsuite_get_ci_adapter_names

Gets all names of known CI (continuous integration) adapters.

Description

Gets all names of known CI (continuous integration) adapters.

Usage

```
rsuite_get_ci_adapter_names()
```

Value

names of registered ci adapters as character vector.

See Also

Other miscellaneous: [rsuite_check_version](#), [rsuite_getLogger](#), [rsuite_get_os_info](#), [rsuite_get_rc_adapter_names](#), [rsuite_get_repo_adapter_names](#), [rsuite_register_ci_adapter](#), [rsuite_register_rc_adapter](#), [rsuite_register_repo_adapter](#), [rsuite_unregister_ci_adapter](#), [rsuite_unregister_rc_adapter](#), [rsuite_unregister_repo_adapter](#), [rsuite_update](#), [tmpl_register](#)

Examples

```
rsuite_get_ci_adapter_names()
```

rsuite_get_os_info *Retrieves information on current OS.*

Description

Retrieves information on current OS.

Usage

```
rsuite_get_os_info()
```


Value

named list with following items

type One of windows, macos, unix. (type: character)

platform One of Windows, MacOS, SunOS, RedHat, Debian. (type: character(1))

release One of Solaris, MacOS, Ubuntu, Debian, Fedora, CentOS or RedHat or NA. (type: character(1))

distrib Distribution release e.g. for Debian: squeeze, wheezy, jessie. (type: character(1))

version Version number of the distribution. (type: character(1))

See Also

Other miscellaneous: [rsuite_check_version](#), [rsuite_getLogger](#), [rsuite_get_ci_adapter_names](#), [rsuite_get_rc_adapter_names](#), [rsuite_get_repo_adapter_names](#), [rsuite_register_ci_adapter](#), [rsuite_register_rc_adapter](#), [rsuite_register_repo_adapter](#), [rsuite_unregister_ci_adapter](#), [rsuite_unregister_rc_adapter](#), [rsuite_unregister_repo_adapter](#), [rsuite_update](#), [tmpl_register](#)

Examples

```
rsuite_get_os_info()
```

```
rsuite_get_rc_adapter_names
```

Gets all names of known RC (revision control) adapters.

Description

Gets all names of known RC (revision control) adapters.

Usage

```
rsuite_get_rc_adapter_names()
```

Value

names of registered rc adapters as character vector.

See Also

Other miscellaneous: [rsuite_check_version](#), [rsuite_getLogger](#), [rsuite_get_ci_adapter_names](#), [rsuite_get_os_info](#), [rsuite_get_repo_adapter_names](#), [rsuite_register_ci_adapter](#), [rsuite_register_rc_adapter](#), [rsuite_register_repo_adapter](#), [rsuite_unregister_ci_adapter](#), [rsuite_unregister_rc_adapter](#), [rsuite_unregister_repo_adapter](#), [rsuite_update](#), [tmpl_register](#)

Examples

```
rsuite_get_rc_adapter_names()
```

rsuite_get_repo_adapter_names

Gets all names of known repository adapters.

Description

Gets all names of known repository adapters.

Usage

```
rsuite_get_repo_adapter_names()
```

Value

names of registered repository management adapters as character vector.

See Also

Other miscellaneous: [rsuite_check_version](#), [rsuite_getLogger](#), [rsuite_get_ci_adapter_names](#), [rsuite_get_os_info](#), [rsuite_get_rc_adapter_names](#), [rsuite_register_ci_adapter](#), [rsuite_register_rc_adapter](#), [rsuite_register_repo_adapter](#), [rsuite_unregister_ci_adapter](#), [rsuite_unregister_rc_adapter](#), [rsuite_unregister_repo_adapter](#), [rsuite_update](#), [tmpl_register](#)

Examples

```
rsuite_get_repo_adapter_names()
```

rsuite_register_ci_adapter

Registers CI (continuous integration) adapter to use for projects.

Description

Registers CI (continuous integration) adapter to use for projects.

Usage

```
rsuite_register_ci_adapter(ci_adapter)
```

Arguments

ci_adapter object complying rsuite_ci_adapter signature.

See Also

Other miscellaneous: [rsuite_check_version](#), [rsuite_getLogger](#), [rsuite_get_ci_adapter_names](#), [rsuite_get_os_info](#), [rsuite_get_rc_adapter_names](#), [rsuite_get_repo_adapter_names](#), [rsuite_register_rc_adapter](#), [rsuite_register_repo_adapter](#), [rsuite_unregister_ci_adapter](#), [rsuite_unregister_rc_adapter](#), [rsuite_unregister_repo_adapter](#), [rsuite_update](#), [tmpl_register](#)

Examples

```
ci_adapter <- ci_adapter_create_base("Own") # create your custom adapter
class(ci_adapter) <- c("ci_adapter_own", class(ci_adapter))

# register it
rsuite_register_ci_adapter(ci_adapter)

# unregister it
rsuite_unregister_ci_adapter("Own")
```

rsuite_register_rc_adapter

Registers RC (revision control) adapter to use for projects.

Description

Registers RC (revision control) adapter to use for projects.

Usage

```
rsuite_register_rc_adapter(rc_adapter)
```

Arguments

rc_adapter object complying rsuite_rc_adapter signature.

See Also

Other miscellaneous: [rsuite_check_version](#), [rsuite_getLogger](#), [rsuite_get_ci_adapter_names](#), [rsuite_get_os_info](#), [rsuite_get_rc_adapter_names](#), [rsuite_get_repo_adapter_names](#), [rsuite_register_ci_adapter](#), [rsuite_register_repo_adapter](#), [rsuite_unregister_ci_adapter](#), [rsuite_unregister_rc_adapter](#), [rsuite_unregister_repo_adapter](#), [rsuite_update](#), [tmpl_register](#)

Examples

```
rc_adapter <- rc_adapter_create_base("Own") # create your custom adapter
class(rc_adapter) <- c("rc_adapter_own", class(rc_adapter))

# register it
rsuite_register_rc_adapter(rc_adapter)
```

```
# unregister it
rsuite_unregister_rc_adapter("Own")
```

```
rsuite_register_repo_adapter
```

Registers repository adapter to use for projects.

Description

Registers repository adapter to use for projects.

Usage

```
rsuite_register_repo_adapter(repo_adapter)
```

Arguments

`repo_adapter` object complying `rsuite_repo_adapter` signature.

See Also

Other miscellaneous: [rsuite_check_version](#), [rsuite_getLogger](#), [rsuite_get_ci_adapter_names](#), [rsuite_get_os_info](#), [rsuite_get_rc_adapter_names](#), [rsuite_get_repo_adapter_names](#), [rsuite_register_ci_adapter](#), [rsuite_register_rc_adapter](#), [rsuite_unregister_ci_adapter](#), [rsuite_unregister_rc_adapter](#), [rsuite_unregister_repo_adapter](#), [rsuite_update](#), [tmpl_register](#)

Examples

```
repo_adapter <- repo_adapter_create_base("Own") # create your custom adapter
class(repo_adapter) <- c("repo_adapter_own", class(repo_adapter))

# register it
rsuite_register_repo_adapter(repo_adapter)

# unregister it
rsuite_unregister_repo_adapter("Own")
```

rsuite_unregister_ci_adapter
Unregisters CI (continuous integration) adapter.

Description

Unregisters CI (continuous integration) adapter.

Usage

```
rsuite_unregister_ci_adapter(name)
```

Arguments

name CI adapter name to unregister.

See Also

Other miscellaneous: [rsuite_check_version](#), [rsuite_getLogger](#), [rsuite_get_ci_adapter_names](#), [rsuite_get_os_info](#), [rsuite_get_rc_adapter_names](#), [rsuite_get_repo_adapter_names](#), [rsuite_register_ci_adapter](#), [rsuite_register_rc_adapter](#), [rsuite_register_repo_adapter](#), [rsuite_unregister_rc_adapter](#), [rsuite_unregister_repo_adapter](#), [rsuite_update](#), [tmpl_register](#)

Examples

```
ci_adapter <- ci_adapter_create_base("Own") # create your custom adapter
class(ci_adapter) <- c("ci_adapter_own", class(ci_adapter))

# register it
rsuite_register_ci_adapter(ci_adapter)

# unregister it
rsuite_unregister_ci_adapter("Own")
```

rsuite_unregister_rc_adapter
Unregisters RC (revision control) adapter.

Description

Unregisters RC (revision control) adapter.

Usage

```
rsuite_unregister_rc_adapter(name)
```

Arguments

name RC adapter name to unregister.

See Also

Other miscellaneous: [rsuite_check_version](#), [rsuite_getLogger](#), [rsuite_get_ci_adapter_names](#), [rsuite_get_os_info](#), [rsuite_get_rc_adapter_names](#), [rsuite_get_repo_adapter_names](#), [rsuite_register_ci_adapter](#), [rsuite_register_rc_adapter](#), [rsuite_register_repo_adapter](#), [rsuite_unregister_ci_adapter](#), [rsuite_unregister_repo_adapter](#), [rsuite_update](#), [tmpl_register](#)

Examples

```
rc_adapter <- rc_adapter_create_base("Own") # create your custom adapter
class(rc_adapter) <- c("rc_adapter_own", class(rc_adapter))

# register it
rsuite_register_rc_adapter(rc_adapter)

# unregister it
rsuite_unregister_rc_adapter("Own")
```

```
rsuite_unregister_repo_adapter
                                  Unegisters repository adapter.
```

Description

Unegisters repository adapter.

Usage

```
rsuite_unregister_repo_adapter(repo_adapter_name)
```

Arguments

repo_adapter_name
 name of the repo adapter to unregister. (type: character(1))

See Also

Other miscellaneous: [rsuite_check_version](#), [rsuite_getLogger](#), [rsuite_get_ci_adapter_names](#), [rsuite_get_os_info](#), [rsuite_get_rc_adapter_names](#), [rsuite_get_repo_adapter_names](#), [rsuite_register_ci_adapter](#), [rsuite_register_rc_adapter](#), [rsuite_register_repo_adapter](#), [rsuite_unregister_ci_adapter](#), [rsuite_unregister_rc_adapter](#), [rsuite_update](#), [tmpl_register](#)

Examples

```
repo_adapter <- repo_adapter_create_base("Own") # create your custom adapter
class(repo_adapter) <- c("repo_adapter_own", class(repo_adapter))

# register it
rsuite_register_repo_adapter(repo_adapter)

# unregister it
rsuite_unregister_repo_adapter("Own")
```

rsuite_update	<i>Updates RSuite to newest available version.</i>
---------------	--

Description

Updates RSuite to newest available version.

Usage

```
rsuite_update(lib.dir = Sys.getenv("R_LIBS_USER"))
```

Arguments

lib.dir folder path to install RSuite into. Folder must exist. (type: character(1); default: Sys.getenv("R_LIBS_USER"))

Value

TRUE if updated (invisible).

See Also

Other miscellaneous: [rsuite_check_version](#), [rsuite_getLogger](#), [rsuite_get_ci_adapter_names](#), [rsuite_get_os_info](#), [rsuite_get_rc_adapter_names](#), [rsuite_get_repo_adapter_names](#), [rsuite_register_ci_adapter](#), [rsuite_register_rc_adapter](#), [rsuite_register_repo_adapter](#), [rsuite_unregister_ci_adapter](#), [rsuite_unregister_rc_adapter](#), [rsuite_unregister_repo_adapter](#), [tmpl_register](#)

Examples

```
lib_dir <- tempfile("Rsuite_")
dir.create(lib_dir, recursive = TRUE, showWarnings = FALSE)

rsuite_update(lib_dir)
```

sysreqs_check	<i>Checks for system requirements availability.</i>
---------------	---

Description

Collects system requirements with [sysreqs_collect](#) and performs checks for their existence. Will fail if some system requirements are not satisfied.

Usage

```
sysreqs_check(prj = NULL)
```

Arguments

prj	project object to check sys requirements for. If not passed the loaded project will be used or the default whichever exists. Will init default project from the working directory if no default project exists. (type: rsuite_project, default: NULL)
-----	---

See Also

Other in SYSREQS: [sysreqs_collect](#), [sysreqs_install](#)

Examples

```
# create exemplary project base folder
prj_base <- tempfile("example_")
dir.create(prj_base, recursive = TRUE, showWarnings = FALSE)

# start project
prj <- prj_start("my_project", skip_rc = TRUE, path = prj_base)

# add dependency to XML
write("library(XML)",
      file = file.path(prj$path, "R", "master.R"),
      append = TRUE)

# check if requirements or XML are satisfied
sysreqs_check(prj)
```

sysreqs_collect	<i>Prints out all system requirements from dependencies and project packages.</i>
-----------------	---

Description

Prints out all system requirements from dependencies and project packages.

Usage

```
sysreqs_collect(prj = NULL)
```

Arguments

prj	project object to collect sys requirements for. If not passed the loaded project will be used or the default whichever exists. Will init the default project from working directory if no default project exists. (type: rsuite_project, default: NULL)
-----	---

Value

named list with package names and containing system requirements as value.

See Also

Other in SYSREQS: [sysreqs_check](#), [sysreqs_install](#)

Examples

```
# create exemplary project base folder
prj_base <- tempfile("example_")
dir.create(prj_base, recursive = TRUE, showWarnings = FALSE)

# start project
prj <- prj_start("my_project", skip_rc = TRUE, path = prj_base)

# add package to the project
prj_start_package("mypackage", prj = prj)

# add system requirements specification
write("SystemRequirements: some requirement",
      file = file.path(prj$path, "packages", "mypackage", "DESCRIPTION"),
      append = TRUE)

# list content of pkgzip created
sysreqs_collect(prj)
```

sysreqs_install	<i>Updates system to satisfy detected requirements.</i>
-----------------	---

Description

Collects system requirements with [sysreqs_collect](#) and builds/installs them.

Usage

```
sysreqs_install(prj = NULL)
```

Arguments

prj	project object to handle sys requirements for. If not passed the loaded project will be used or the default whichever exists. Will init default project from the working directory if no default project exists. (type: rsuite_project, default: NULL)
-----	--

See Also

Other in SYSREQS: [sysreqs_check](#), [sysreqs_collect](#)

Examples

```
# create exemplary project base folder
prj_base <- tempfile("example_")
dir.create(prj_base, recursive = TRUE, showWarnings = FALSE)

# start project
prj <- prj_start("my_project", skip_rc = TRUE, path = prj_base)

# add dependency to XML
write("library(XML)",
      file = file.path(prj$path, "R", "master.R"),
      append = TRUE)

# check if requirements of XML are satisfied
sysreqs_install(prj)
```

sysreqs_script	<i>Creates a script to update the system to satisfy project requirements.</i>
----------------	---

Description

Collects system requirements with `sysreqs_collect` and creates a script to build/install them. It creates a .cmd script for Windows and a bash script for Linuxes.

Usage

```
sysreqs_script(prj = NULL)
```

Arguments

prj	project object to process sys requirements for. If not passed the loaded project will be used or the default whichever exists. Will init default project from working directory if no default project exists. (type: <code>rsuite_project</code> , default: <code>NULL</code>)
-----	---

Value

invisible path to script file created or `NULL` if no system requirements detected.

Examples

```
# create exemplary project base folder
prj_base <- tempfile("example_")
dir.create(prj_base, recursive = TRUE, showWarnings = FALSE)

# start project
prj <- prj_start("my_project", skip_rc = TRUE, path = prj_base)

# add dependency to XML
write("library(XML)",
      file = file.path(prj$path, "R", "master.R"),
      append = TRUE)

# generate script
sysreqs_fpath <- sysreqs_script(prj)

# present script contents
cat(readLines(sysreqs_fpath), sep = "\n")
```

`tpl_list_registered` *Returns all available project/package templates*

Description

Returns all available project/package templates

Usage

```
tpl_list_registered()
```

Details

Project templates have to include a PARAMETERS file Package templates have to include the following files: DESCRIPTION

All templates can be found in folder pointed by `rsuite.user_tmpl_path` option.

Value

names of the registered project and package templates together with their file path

See Also

Other in templates management: [tpl_start](#)

Examples

```
tpl_list_registered()
```

`tpl_register` *Registers the template specified with the path argument.*

Description

Registers the template specified with the path argument.

Usage

```
tpl_register(path = NULL, global = FALSE)
```

Arguments

path	path to the directory where the template should be created (type: character, default: NA)
global	flag specifying if the template will be registered in the user's local template directory (taken from rsuite.user_tmpl_path) or in the global template directory (/etc/rsuite/templates on Linux platforms)

Details

All templates have specific requirements: Project templates have to contain a PARAMETERS file. Package templates have to contain a DESCRIPTION file.

The user's local template directory is taken from the rsuite.user_tmpl_path option. The global template is specified as '/etc/rsuite/templates' and only concerns Linux platforms

See Also

Other miscellaneous: [rsuite_check_version](#), [rsuite_getLogger](#), [rsuite_get_ci_adapter_names](#), [rsuite_get_os_info](#), [rsuite_get_rc_adapter_names](#), [rsuite_get_repo_adapter_names](#), [rsuite_register_ci_adapter](#), [rsuite_register_rc_adapter](#), [rsuite_register_repo_adapter](#), [rsuite_unregister_ci_adapter](#), [rsuite_unregister_rc_adapter](#), [rsuite_unregister_repo_adapter](#), [rsuite_update](#)

Examples

```
# setup
old_option_value <- getOption("rsuite.user_tmpl_path")
tmpl_dir <- tempfile("user_templates_")
dir.create(tmpl_dir, recursive = TRUE, showWarnings = FALSE)

options(rsuite.user_tmpl_path = tmpl_dir)
user_tmpl <- tempfile("usr_tmpl_")

# initialize template from builtin
tmpl_start(basename(user_tmpl), path = tempdir())
# register it
tmpl_register(user_tmpl)

# clean up
options(rsuite.user_tmpl_path = old_option_value)
unlink(tmpl_dir, recursive = TRUE, force = TRUE)
unlink(user_tmpl, recursive = TRUE, force = TRUE)
```

tmpl_start	<i>Creates a new template with the specified name, in the specified path.</i>
------------	---

Description

Creates a new template with the specified name, in the specified path.

Usage

```
tmpl_start(name, path = getwd(), add_prj = TRUE, add_pkg = TRUE,  
           base_tmpl = "builtin")
```

Arguments

name	name of the template being created. (type: character(1))
path	path to the directory where the template should be created. If NULL will use the folder with user template. (type: character(1), default: getwd())
add_prj	if TRUE include project template to the template directory
add_pkg	if TRUE include package template in the template directory
base_tmpl	name of the package and/or project template (or path to it) to use for template creation. (type: character(1); default: builtin).

Details

Project templates are required to include a PARAMETERS file whereas package templates are required to include a DESCRIPTION file

If there is no path argument provided. The function will create the template in working directory.

See Also

Other in templates management: [tmpl_list_registered](#)

Examples

```
tmpl_dir <- tempfile("templ_")  
tmpl_start(basename(tmpl_dir), path = tempdir())
```

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