

Package: renvvv (via r-universe)

June 4, 2026

Title Robust 'renv' Package Restore and Update Functions

Version 0.4.2

Description Provides more robust 'renv' restore and update functions that continue past individual package failures, retry them individually, and report what could not be installed. Unlike the standard 'renv::restore()', which stops on the first error, these functions allow the installation process to proceed for all packages that can be successfully restored.

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URL <https://github.com/MiguelRodo/renvvv>

BugReports <https://github.com/MiguelRodo/renvvv/issues>

Encoding UTF-8

Roxygen list(markdown = TRUE)

Imports renv, cli

Suggests mockery, BiocManager, knitr, mockery, rcmdcheck, rmarkdown, testthat (>= 3.0.0), microbenchmark, fs

Config/testthat/edition 3

VignetteBuilder knitr

Config/roxygen2/version 8.0.0

Repository <https://miguelrodo.r-universe.dev>

Date/Publication 2026-06-04 13:08:57 UTC

RemoteUrl <https://github.com/MiguelRodo/renvvv>

RemoteRef v0.4.2

RemoteSha d867b15006a638fbaa83b40690d6b8a6ae7312b1

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renvzv_install	<i>Install Packages Robustly</i>
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Description

A "tryhard" version of `renv::install()`. It first attempts to install all specified packages in a single vectorized call. If that fails, it compares the current installed packages and their versions against the state prior to the installation attempt. Any package that is still missing or whose version did not change will then be installed individually, ensuring that one failing package does not prevent the installation of others.

Usage

```
renvzv_install(packages, prompt = FALSE, args_install = list())
```

Arguments

packages	A character vector of packages to install. Can contain CRAN, Bioconductor, or GitHub package references (e.g., "dplyr", "user/repo@v1").
prompt	Logical. Whether to prompt for user confirmation during installation. Default is FALSE.
args_install	List. Arbitrary arguments to pass down to <code>renv::install()</code> .

Value

Invisibly returns TRUE upon completion.

Examples

```
## Not run:  
# Install multiple packages robustly  
renvzv_install(c("dplyr", "ggplot2", "SATVILab/projr@dev"))  
  
# Pass arbitrary parameters down to renv::install  
renvzv_install(c("dplyr"), args_install = list(rebuild = TRUE))  
  
## End(Not run)
```

renvvv_restore	<i>Restore renv Lockfile Packages</i>
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Description

Restores packages from the lockfile, attempting to install the lockfile versions. When individual packages fail, continues with the remaining packages and retries failures individually.

If an renv project is detected (via `renv.lock` file) but not currently active, the function will activate it. In interactive sessions, the user will be prompted for confirmation before activation. In non-interactive sessions, activation occurs automatically.

Usage

```
renvvv_restore(  
  github = TRUE,  
  non_github = TRUE,  
  biocmanager_install = FALSE,  
  skip = character(0),  
  prompt = FALSE,  
  transactional = FALSE,  
  args_restore = list(),  
  args_install = list()  
)
```

Arguments

<code>github</code>	Logical. Whether to process GitHub packages. Default is TRUE.
<code>non_github</code>	Logical. Whether to process non-GitHub packages (CRAN and Bioconductor). Default is TRUE.
<code>biocmanager_install</code>	Logical. If TRUE, Bioconductor packages will be installed using <code>BiocManager::install</code> ; otherwise, <code>renv::install("bioc::<package_name>")</code> will be used. Default is FALSE.
<code>skip</code>	Character vector. Package names to skip during restore. Default is <code>character(0)</code> (no packages skipped).
<code>prompt</code>	Logical. Whether to prompt for user confirmation during renv operations. Default is FALSE.
<code>transactional</code>	Logical. Whether to use transactional package restoration. Default is FALSE.
<code>args_restore</code>	List. Arbitrary arguments to pass down to <code>renv::restore()</code> .
<code>args_install</code>	List. Arbitrary arguments to pass down to <code>renv::install()</code> when fallback installations occur.

Value

Invisibly returns TRUE upon successful completion.

Examples

```
## Not run:
# Restore all packages
renvvv_restore()

# Only restore non-GitHub packages
renvvv_restore(github = FALSE)

# Pass clean = FALSE to renv::restore
renvvv_restore(args_restore = list(clean = FALSE))

## End(Not run)
```

renvvv_restore_and_update

Restore and Update renv Lockfile Packages

Description

First restores packages from the lockfile, then updates them to the latest versions. Combines `renvvv_restore()` and `renvvv_update()` in sequence.

If an `renv` project is detected (via `renv.lock` file) but not currently active, the function will activate it. In interactive sessions, the user will be prompted for confirmation before activation. In non-interactive sessions, activation occurs automatically.

Usage

```
renvvv_restore_and_update(
  github = TRUE,
  non_github = TRUE,
  biocmanager_install = FALSE,
  skip = character(),
  skip_if_dep_unavailable = TRUE,
  prompt = FALSE,
  transactional = FALSE,
  args_restore = list(),
  args_update = list(),
  args_install = list()
)
```

Arguments

<code>github</code>	Logical. Whether to process GitHub packages. Default is TRUE.
<code>non_github</code>	Logical. Whether to process non-GitHub packages (CRAN and Bioconductor). Default is TRUE.

biocmanager_install	Logical. If TRUE, Bioconductor packages will be installed using <code>BiocManager::install</code> ; otherwise, <code>renv::install("bioc::<package_name>")</code> will be used. Default is FALSE.
skip	Character vector. Package names to skip during restore and update. Default is <code>character(0)</code> (no packages skipped).
skip_if_dep_unavailable	Logical. Passed to <code>renvvv_update()</code> . If TRUE, skip installing a package during the update step when one of its lockfile-listed dependencies previously failed to install and is not currently available. Default is TRUE.
prompt	Logical. Whether to prompt for user confirmation during <code>renv</code> operations. Default is FALSE.
transactional	Logical. Whether to use transactional package restoration. Default is FALSE.
args_restore	List. Arbitrary arguments to pass down to <code>renv::restore()</code> .
args_update	List. Arbitrary arguments to pass down for update operations.
args_install	List. Arbitrary arguments to pass down to <code>renv::install()</code> .

Value

Invisibly returns TRUE upon successful completion.

renvvv_update	<i>Update renv Lockfile Packages</i>
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Description

Updates packages to their latest available versions, ignoring the lockfile versions. When individual packages fail, continues with the remaining packages and retries failures individually.

If an `renv` project is detected (via `renv.lock` file) but not currently active, the function will activate it. In interactive sessions, the user will be prompted for confirmation before activation. In non-interactive sessions, activation occurs automatically.

Usage

```
renvvv_update(
  github = TRUE,
  non_github = TRUE,
  biocmanager_install = FALSE,
  skip = character(0),
  skip_if_dep_unavailable = TRUE,
  prompt = FALSE,
  transactional = FALSE,
  args_update = list(),
  args_install = list()
)
```

Arguments

<code>github</code>	Logical. Whether to process GitHub packages. Default is TRUE.
<code>non_github</code>	Logical. Whether to process non-GitHub packages (CRAN and Bioconductor). Default is TRUE.
<code>biocmanager_install</code>	Logical. If TRUE, Bioconductor packages will be installed using <code>BiocManager::install</code> ; otherwise, <code>renv::install("bioc:<package_name>")</code> will be used. Default is FALSE.
<code>skip</code>	Character vector. Package names to skip during update. Default is <code>character(0)</code> (no packages skipped).
<code>skip_if_dep_unavailable</code>	Logical. If TRUE, skip installing a package when one of its lockfile-listed dependencies previously failed to install and is not currently available. Default is TRUE.
<code>prompt</code>	Logical. Whether to prompt for user confirmation during <code>renv</code> operations. Default is FALSE.
<code>transactional</code>	Logical. Whether to use transactional package restoration. Default is FALSE.
<code>args_update</code>	List. Arbitrary arguments to pass down for update operations.
<code>args_install</code>	List. Arbitrary arguments to pass down to <code>renv::install()</code> .

Value

Invisibly returns TRUE upon successful completion.

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