

Package: tinypkgr (via r-universe)

May 23, 2026

Title Minimal R Package Development Utilities

Version 0.2.1

Description Lightweight wrappers around 'R CMD INSTALL', 'R CMD check', 'R CMD build', 'win-builder' uploads, and 'CRAN' submission. Provides functions for installing, loading, checking, building, and submitting R packages with minimal dependencies (only 'curl' for uploads). Background on R package development is in Wickham and Bryan (2023, ISBN:9781098134945), ``Writing R Extensions" <<https://cran.r-project.org/doc/manuals/R-exts.html>>, and the 'CRAN' Repository Policy <<https://cran.r-project.org/web/packages/policies.html>>.

License GPL-3

URL <https://github.com/cornball-ai/tinypkgr>

BugReports <https://github.com/cornball-ai/tinypkgr/issues>

Encoding UTF-8

Imports curl

Suggests tinyrox, tinytest

Config/pak/sysreqs libssl-dev

Repository <https://cornball-ai.r-universe.dev>

Date/Publication 2026-04-22 16:23:53 UTC

RemoteUrl <https://github.com/cornball-ai/tinypkgr>

RemoteRef HEAD

RemoteSha eab94f131a57dd2317153c2ec6fe9ff4a6591120

Contents

| | |
|---------------------------|---|
| build | 2 |
| check | 3 |
| check_win_devel | 4 |

| | |
|-----------------------------|---|
| install | 4 |
| load_all | 5 |
| maintainer | 6 |
| reload | 7 |
| submit_cran | 8 |
| use_github_action | 8 |
| use_version | 9 |

| | |
|--------------|-----------|
| Index | 11 |
|--------------|-----------|

| | |
|-------|------------------------------|
| build | <i>Build Package Tarball</i> |
|-------|------------------------------|

Description

Builds a source package tarball suitable for CRAN submission.

Usage

```
build(path = ".", dest_dir = tools::R_user_dir("tinypkgr", "cache"))
```

Arguments

| | |
|----------|--|
| path | Path to package root directory. |
| dest_dir | Directory to place the tarball. Defaults to the per-package user cache dir ('tools::R_user_dir("tinypkgr", "cache)'), which is CRAN's recommended location for package-owned output and persists across sessions. Pass an explicit path to place the tarball somewhere else. |

Value

Path to the built tarball (invisibly).

Examples

```
# Scaffold a throwaway package in tempdir() and build a source tarball.
pkg <- file.path(tempdir(), "buildpkg")
dir.create(file.path(pkg, "R"), recursive = TRUE, showWarnings = FALSE)
writeLines(c(
  "Package: buildpkg",
  "Title: Example",
  "Version: 0.0.1",
  "Authors@R: person('A', 'B', email = 'a@b.com', role = c('aut', 'cre'))",
  "Description: Example.",
  "License: GPL-3"
), file.path(pkg, "DESCRIPTION"))
writeLines("add <- function(x, y) x + y", file.path(pkg, "R", "add.R"))

out <- file.path(tempdir(), "tarballs")
```

```

dir.create(out, showWarnings = FALSE)
tarball <- build(pkg, dest_dir = out)
file.exists(tarball)

unlink(pkg, recursive = TRUE)
unlink(out, recursive = TRUE)

```

| | |
|-------|----------------------|
| check | <i>Check Package</i> |
|-------|----------------------|

Description

Runs R CMD build and R CMD check on the package.

Usage

```

check(path = ".", args = c("--as-cran", "--no-manual"),
      error_on = c("warning", "error", "note"))

```

Arguments

| | |
|----------|---|
| path | Path to package root directory. |
| args | Character vector of additional arguments to pass to R CMD check. Default includes "--as-cran" and "--no-manual". |
| error_on | Severity level that causes an error: "error", "warning", or "note". Default is "warning" (fails on errors or warnings). |

Value

TRUE if check passes, FALSE otherwise (invisibly). Also throws an error if check fails at or above error_on level.

Examples

```

# Runs 'R CMD build' + 'R CMD check' (typically tens of seconds).
# Intermediate files go under tempdir(), so nothing is written to the
# caller's working directory. Wrapped in if(interactive()) so the
# example is shown to users but not executed during R CMD check.

if (interactive()) {
  check()
  check(error_on = "error")
  check(args = c("--as-cran", "--no-manual"))
}

```

check_win_devel *Check Package on Windows via win-builder*

Description

Uploads package to win-builder.r-project.org for testing on Windows. Results are emailed to the package maintainer.

Usage

```
check_win_devel(path = ".", r_version = c("devel", "release", "oldrelease"))
```

Arguments

path Path to package root directory.
r_version Which R version to test: "devel", "release", or "oldrelease". Default is "devel".

Value

TRUE if upload succeeded (invisibly).

Examples

```
# Uploads a tarball to the public 'win-builder' FTP server. Wrapped  
# in if(interactive()) so CRAN's automated checks never touch the  
# network.  
  
if (interactive()) {  
  check_win_devel()  
  check_win_devel(r_version = "release")  
}
```

install *Install Package*

Description

Wrapper around R CMD INSTALL with quiet mode option.

Usage

```
install(path = ".", quiet = TRUE)
```

Arguments

path Path to package root directory.
quiet Logical. Suppress output except errors? Default TRUE.

Value

TRUE if successful, FALSE otherwise (invisibly).

Examples

```
# Calls 'R CMD INSTALL', which writes to the user's R library.  
# Wrapped in if(interactive()) so CRAN's automated checks never  
# mutate the library.  
  
if (interactive()) {  
  install()  
  install(quiet = FALSE)  
}
```

load_all

Load All Package Code

Description

Sources all R files in a package for interactive development, without requiring a full install.

Usage

```
load_all(path = ".", env = new.env(parent = globalenv()), quiet = TRUE)
```

Arguments

path Path to package root directory.
env Environment to source files into. Defaults to a fresh environment whose parent is the global environment.
quiet Logical. Suppress file sourcing messages? Default TRUE.

Value

The environment into which files were sourced (invisibly). Does not modify the search path. If you want search-path behavior, call `attach()` yourself:

```
attach(tinyprgr::load_all(), name = "tinyprgr:myprgr")
```

See Also

[kitten](#) for scaffolding a new package.


```
  "Description: Example.",
  "License: GPL-3"
), file.path(pkg, "DESCRIPTION"))

maintainer(pkg)

unlink(pkg, recursive = TRUE)
```

reload *Reload an Installed Package*

Description

Unloads a package if loaded, reinstalls it, and loads it again. Convenience function for the install-reload cycle during development.

Usage

```
reload(path = ".", document = FALSE, quiet = TRUE)
```

Arguments

| | |
|----------|---|
| path | Path to package root directory. |
| document | If TRUE and tinyrox is available, run tinyrox::document() before installing. Default FALSE. |
| quiet | Logical. Suppress install output? Default TRUE. |

Value

TRUE if successful (invisibly).

Examples

```
# Calls install() under the hood, which writes to the user's R
# library. Wrapped in if(interactive()) so checks never mutate it.

if (interactive()) {
  reload()
  reload(document = TRUE)
}
```

| | |
|-------------|-------------------------------|
| submit_cran | <i>Submit Package to CRAN</i> |
|-------------|-------------------------------|

Description

Uploads package to CRAN for review. You will receive a confirmation email that must be clicked to complete the submission.

Usage

```
submit_cran(path = ".", comments = "cran-comments.md")
```

Arguments

| | |
|----------|---|
| path | Path to package root directory. |
| comments | Path to cran-comments.md file, or NULL to skip. |

Value

TRUE if submission succeeded (invisibly).

Examples

```
# Uploads to CRAN and prompts interactively for confirmation.  
# Wrapped in if(interactive()) so CRAN's automated checks never  
# attempt the upload.  
  
if (interactive()) {  
  submit_cran()  
}
```

| | |
|-------------------|---|
| use_github_action | <i>Add a GitHub Actions CI Workflow</i> |
|-------------------|---|

Description

Writes `github/workflows/ci.yaml` using the r-ci template (Ubuntu and macOS, via `eddelbuettel/github-actions/r-ci@master`). Adds `^\.github$` to `.Rbuildignore` if not already present.

Usage

```
use_github_action(path)
```

Arguments

`path` Path to package root directory. Required; no default is provided because this function writes files under ‘path’, and CRAN Repository Policy forbids defaulting write paths to the user’s home filespace (which includes ‘getwd()’).

Value

Path to the created YAML file (invisibly).

Examples

```
# Scaffold a throwaway package in tempdir() and add the workflow.
pkg <- file.path(tempdir(), "ghapkg_example")
dir.create(pkg, showWarnings = FALSE)
writeLines(c(
  "Package: ghapkg",
  "Title: Example",
  "Version: 0.0.1",
  "Authors@R: person('A', 'B', email = 'a@b.com', role = c('aut','cre'))",
  "Description: Example.",
  "License: GPL-3"
), file.path(pkg, "DESCRIPTION"))

yaml <- use_github_action(path = pkg)
file.exists(yaml)

unlink(pkg, recursive = TRUE)
```

use_version

Bump Package Version

Description

Increments the Version field in DESCRIPTION and prepends a new section header to NEWS.md (if present) so the two never drift apart.

Usage

```
use_version(which = c("patch", "minor", "major", "dev"), path)
```

Arguments

`which` Which component to bump: "patch" (0.2.0 -> 0.2.1), "minor" (0.2.0 -> 0.3.0), "major" (0.2.0 -> 1.0.0), or "dev" (0.2.0 -> 0.2.0.1, or 0.2.0.1 -> 0.2.0.2).

`path` Path to package root directory. Required; no default is provided because this function edits files in ‘path’, and CRAN Repository Policy forbids defaulting write paths to the user’s home filespace (which includes ‘getwd()’).

Value

The new version string (invisibly).

Examples

```
# Scaffold a throwaway package in tempdir() and bump its version.
pkg <- file.path(tempdir(), "vxpkg")
dir.create(pkg, showWarnings = FALSE)
writeLines(c(
  "Package: vxpkg",
  "Title: Example",
  "Version: 0.1.0",
  "Authors@R: person('A', 'B', email = 'a@b.com', role = c('aut','cre'))",
  "Description: Example.",
  "License: GPL-3"
), file.path(pkg, "DESCRIPTION"))

use_version("patch", path = pkg)
read.dcf(file.path(pkg, "DESCRIPTION"))[1, "Version"]

unlink(pkg, recursive = TRUE)
```

Index

build, [2](#)

check, [3](#)

check_win_devel, [4](#)

install, [4](#)

kitten, [5](#)

load_all, [5](#)

maintainer, [6](#)

reload, [7](#)

submit_cran, [8](#)

use_github_action, [8](#)

use_version, [9](#)