

Package: bootstrapper (via r-universe)

August 30, 2026

Title Opinionated R Package Quickstart

Version 1.1.0

Description Bootstrap new R packages with strongly opinionated defaults. Creates the package scaffold, wires up tests, README and NEWS, configures GitHub Actions and Dependabot, adds Air/Jarl setup, and drop in a default AGENTS.md for building R packages.

License GPL (>= 3)

URL <https://bootstrapper.visruth.com/>

Depends R (>= 4.2.0)

Imports cli, fs, spelling, usethis, utils

Suggests jsonlite, testthat (>= 3.0.0), touchstone, withr

Remotes lorenzwalthert/touchstone

Config/roxygen2/version 8.0.0

Config/testthat/edition 3

Encoding UTF-8

Language en-US

Roxxygen list(markdown = TRUE)

Config/pak/sysreqs cmake git make libgit2-dev libuv1-dev libxml2-dev libssl-dev libx11-dev

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

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RemoteUrl <https://github.com/VisruthSK/bootstrapper>

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bootstrapper	<i>Bootstrap a New R Package</i>
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Description

Create a package with some opinionated setup.

Usage

```
bootstrapper(  
  fields = getOption("usethis.description"),  
  setup_gha = TRUE,  
  setup_air = TRUE,  
  setup_jarl = TRUE,  
  setup_dependabot = TRUE,  
  setup_AGENTS = FALSE,  
  setup_precommit = TRUE,  
  setup_touchstone = FALSE,  
  setup_touchstone_plots = FALSE  
)
```

Arguments

fields	Named list of DESCRIPTION fields passed to <code>usethis::create_package()</code> . See <code>usethis::use_description()</code>
setup_gha	Whether to configure GitHub Actions setup.
setup_air	Whether to configure Air formatting.
setup_jarl	Whether to configure Jarl linting.
setup_dependabot	Whether to write a Dependabot configuration.
setup_AGENTS	Whether to write a default AGENTS file.
setup_precommit	Whether to write a Bash pre-commit hook.
setup_touchstone	Whether to setup Touchstone benchmarking.

setup_touchstone_plots

Whether to use the Touchstone comment workflow that publishes benchmark plots to a separate branch. Only used when setup_touchstone = TRUE.

Value

Invisibly returns NULL.

create_package	<i>Create a Package and Connect GitHub</i>
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Description

Create a package in root, prompts for a license, cleans up build ignore file. Essentially a slightly opinionated wrapper around `usethis::create_package()`.

Usage

```
create_package(fields = getOption("usethis.description"))
```

Arguments

fields Named list of DESCRIPTION fields passed to `usethis::create_package()`. See `usethis::use_description()`

Value

Invisibly returns NULL.

pkg_setup	<i>Opinionated Package Setup</i>
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Description

Run the package setup steps used by bootstrapper, including test infrastructure, README/NEWS creation, GitHub Actions, and linting defaults. Run this in the root directory of your package.

Usage

```
pkg_setup(
  setup_gha = TRUE,
  setup_dependabot = TRUE,
  setup_AGENTS = FALSE,
  setup_precommit = TRUE,
  setup_touchstone = FALSE,
  setup_touchstone_plots = FALSE,
  setup_air = TRUE,
  setup_jar1 = TRUE
)
```

Arguments

setup_gha	Whether to configure GitHub Actions setup.
setup_dependabot	Whether to write a Dependabot configuration.
setup_AGENTS	Whether to write a default AGENTS file.
setup_precommit	Whether to write a Bash pre-commit hook.
setup_touchstone	Whether to setup Touchstone benchmarking.
setup_touchstone_plots	Whether to use the Touchstone comment workflow that publishes benchmark plots to a separate branch. Only used when setup_touchstone = TRUE.
setup_air	Whether to configure Air formatting.
setup_jar1	Whether to configure Jar1 linting.

Value

Invisibly returns NULL.

setup_agents	<i>Configure AGENTS Defaults</i>
--------------	----------------------------------

Description

Copies an opinionated, concise AGENTS.md for R package development.

Usage

```
setup_agents()
```

Value

Invisibly returns NULL.

setup_dependabot	<i>Configure Dependabot Defaults</i>
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Description

Writes a default Dependabot configuration for GitHub Actions.

Usage

```
setup_dependabot()
```

Value

Invisibly returns NULL.

setup_formatter	<i>Configure Formatter Defaults</i>
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Description

Sets up Air and/or Jarl formatting defaults. Optionally format the repository once.

Usage

```
setup_formatter(air = TRUE, jarl = TRUE, format = TRUE, gha = TRUE)
```

Arguments

air	Whether to configure Air formatting.
jarl	Whether to configure Jarl linting.
format	Whether to format the repository after configuring tools.
gha	Whether to create the appropriate GHA for automatic formatting on PRs.

Value

Invisibly returns NULL.

 setup_gha

Configure GitHub Actions Defaults

Description

Sets up standard GitHub Actions used by this package template and updates workflow references. DOES NOT setup formatting, that is owned by [setup_formatter\(\)](#).

Usage

```
setup_gha()
```

Value

Invisibly returns NULL.

 setup_precommit

Configure Pre-Commit Hook

Description

Writes a Bash pre-commit hook that runs format and lint checks.

Usage

```
setup_precommit()
```

Value

Invisibly returns NULL.

 setup_touchstone

Configure Touchstone

Description

Write a modified Touchstone GHA to benchmark PRs. You still need to write an appropriate script.R for the actual benchmarks. This version of the touchstone commenting GHA updates a single comment instead of making multiple. Optionally also adds the touchstone plots in a dropdown—these plots are stored on a new branch.

Usage

```
setup_touchstone(plots = FALSE)
```

Arguments

plots Whether to use the workflow which writes touchstone plots (and needs more permissions).

Value

Invisibly returns NULL.

use_license	<i>Choose and Apply a License</i>
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Description

Prompts for a license choice in interactive sessions and applies the selected use this license helper.

Usage

```
use_license()
```

Value

Invisibly returns NULL.

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