Package: bootstrapper (via r-universe)

October 26, 2026

Title Opinionated R Package Quickstart

Version 1.1.2

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, usethis, utils

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

Remotes lorenzwalthert/touchstone

Config/roxygen2/version 8.1.0

Config/testthat/edition 3

Encoding UTF-8

Language en-US

Roxygen list(markdown = TRUE)

Config/pak/sysreqs cmake git make libgit2-dev libuv1-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` *Bootstrap a New R Package*

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 `usethis::create_package()`. See `usethis::use_description()`
`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 *Create a Package and Connect GitHub*

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 *Opinionated Package Setup*

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_jarl = 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_jarl`	Whether to configure Jarl linting.

Value

Invisibly returns `NULL`.

`setup_agents` *Configure AGENTS Defaults*

Description

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

Usage

```
setup_agents()
```

Value

Invisibly returns `NULL`.

setup_dependabot *Configure Dependabot Defaults*

Description

Writes a default Dependabot configuration for GitHub Actions.

Usage

```
setup_dependabot()
```

Value

Invisibly returns `NULL`.

setup_formatter *Configure Formatter Defaults*

Description

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

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_gitattributes *Configure Git Attributes*

Description

Writes a default `.gitattributes`.

Usage

```
setup_gitattributes()
```

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 *Choose and Apply a License*

Description

Prompts for a license choice in interactive sessions and applies the selected `usethis` license helper.

Usage

```
use_license()
```

Value

Invisibly returns `NULL`.

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