Package 'Rapp'

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Title Easily Build Command Line Applications	
Version 0.3.0	
Description Run simple 'R' scripts as command line applications, with automatic robust and convenient support for command line arguments. This package provides 'Rapp', an alternative 'R' front-end similar to 'Rscript', that enables this.	
License MIT + file LICENSE	
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Contents	
install_pkg_cli_apps	2
run	3
Index	5

install_pkg_cli_apps

Description

install_pkg_cli_apps() scans an installed package's exec/ directory for .R scripts whose shebang line invokes Rapp (for example, #!/usr/bin/env Rapp) or Rscript (for example, #!/usr/bin/env Rscript). Each discovered script gets a lightweight launcher in destdir that invokes Rapp or Rscript to run the app. The launcher encodes the absolute path to the R binary this function is called from.

Usage

```
install_pkg_cli_apps(
  package = parent.pkg() %||% rownames(utils::installed.packages()),
  destdir = NULL,
  lib.loc = NULL,
  overwrite = NA
)
uninstall_pkg_cli_apps(package = parent.pkg(), destdir = NULL)
```

Arguments

package	Package names to process. Defaults to the calling package when run inside a package; otherwise all installed packages.
destdir	Directory to write launchers to. See Details for defaults.
lib.loc	Additional library paths forwarded to base::system.file() while locating package scripts. Discovery happens at install time; written launchers embed absolute script paths.
overwrite	Whether to replace an existing executable. TRUE always overwrites, FALSE never overwrites non-Rapp executables, and NA (the default) prompts interactively and otherwise skips.

Details

Optional $\#\$ launcher: front matter in the script lets authors tune the Rscript flags. By default, for both Rscript and Rapp, R is invoked with --default-packages=base, <pkg>, where <pkg> is the package providing the executable.

Launchers are regenerated each time install_pkg_cli_apps() is called, and any obsolete launchers for the same package are removed. RAPP_INSTALL_DIR overrides the default destination. Launchers are POSIX shell scripts on Unix-like systems and .bat files on Windows. Front-matter options such as vanilla, no-environ, and default_packages map directly to the corresponding Rscript arguments.

When overwrite is NA, files previously written by Rapp are always replaced while other executables trigger a confirmation prompt (skipped in non-interactive sessions). A warning is emitted when skipping an existing executable.

run 3

If destdir is not provided, it is resolved in this order:

- env var RAPP_INSTALL_DIR
- env var XDG_BIN_HOME
- env var XDG_DATA_HOME/../bin
- the default location:
 - macOS and Linux: ~/.local/bin,
 - Windows: %LOCALAPPDATA%\Programs\R\Rapp\bin

On Windows, the resolved destdir is explicitly added to PATH (it generally is not by default). To disable adding it to the PATH, set envvar RAPP_NO_MODIFY_PATH=1.

On macOS or Linux, ~/.local/bin is typically already on PATH if it exists. Note: some shells add ~/.local/bin to PATH only if it exists at login. If install_pkg_cli_apps() created the directory, you may need to restart the shell for the new apps to be found on PATH.

Example setting launcher args:

```
#!/usr/bin/env Rapp
#| description: About this app
#| launcher:
#| vanilla: true
#| default-packages: [base, utils, mypkg]
```

Value

Invisibly returns the paths of launchers that were (re)written.

Examples

```
## Not run:
# Install the launcher for the Rapp package itself: `Rapp`
install_pkg_cli_apps("Rapp")
## End(Not run)
```

run

Run an R app.

Description

Run an R app.

Usage

```
run(app, args = commandArgs(TRUE))
```

4 run

Arguments

арр	A filepath to an Rapp.
args	character vector of command line args.

Details

See the package README for full details. https://github.com/r-lib/Rapp

Value

Mainly called for its side effect. For advanced or testing use, it invisibly returns the evaluation environment where the app's expressions ran. If the app did not run (for example, when --help is used), it returns NULL invisibly.

Examples

```
# For the example, place 'Rapp', the package examples, and 'R' on the PATH
old_path <- Sys.getenv("PATH")</pre>
Sys.setenv(PATH = paste(system.file("examples", package = "Rapp"),
                        system.file("exec", package = "Rapp"),
                        R.home("bin"),
                        old_path,
                        sep = .Platform$path.sep))
# Here is an example app:
# flip-coin.R
writeLines(readLines(
  system.file("examples/flip-coin.R", package = "Rapp")))
if(.Platform$OS.type != "windows") {
  # on macOS and Linux, you can call the app directly
  system("flip-coin.R")
  system("flip-coin.R --n 3")
} else {
  # On windows, there is no support for shebang '#!' style executables
  # but you can invoke 'Rapp' directly
  system("Rapp flip-coin.R")
  system("Rapp flip-coin.R --n 3")
}
# restore PATH
Sys.setenv(PATH = old_path)
```

Index