Package ‘devtools’

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## Index

bash

---

**bash**

Open bash shell in package directory.

---

**Description**

Open bash shell in package directory.
Usage

bash(pkg = ".")

Arguments

pkg The package to use, can be a file path to the package or a package object. See `as.package()` for more information.

Description

Building converts a package source directory into a single bundled file. If binary = FALSE this creates a `tar.gz` package that can be installed on any platform, provided they have a full development environment (although packages without source code can typically be installed out of the box). If binary = TRUE, the package will have a platform specific extension (e.g. `.zip` for windows), and will only be installable on the current platform, but no development environment is needed.

Usage

build(pkg = ".", path = NULL, binary = FALSE, vignettes = TRUE, manual = FALSE, args = NULL, quiet = FALSE, ...)

Arguments

pkg The package to use, can be a file path to the package or a package object. See `as.package()` for more information.

path Path in which to produce package. If NULL, defaults to the parent directory of the package.

binary Produce a binary (`--binary`) or source (`--no-manual --no-resave-data`) version of the package.

vignettes For source packages: if FALSE, don’t build PDF vignettes (`--no-build-vignettes`) or manual (`--no-manual`).

manual For source packages: if FALSE, don’t build PDF vignettes (`--no-build-vignettes`) or manual (`--no-manual`).

args An optional character vector of additional command line arguments to be passed to R CMD build if binary = FALSE, or R CMD install if binary = TRUE.

quiet if TRUE suppresses output from this function.

... Additional arguments passed to pkgbuild::build.

Value

a string giving the location (including file name) of the built package
build_manual

Create package pdf manual

Description

Create package pdf manual

Usage

build_manual(pkg = ".", path = NULL)

Arguments

pkg The package to use, can be a file path to the package or a package object. See as.package() for more information.
path path in which to produce package manual. If NULL, defaults to the parent directory of the package.

See Also

Rd2pdf()

build_readme

Build a Rmarkdown README for a package

Description

build_readme() is a wrapper around rmarkdown::render(), it generates the README.md from a README.Rmd file.

Usage

build_readme(path = ".", quiet = TRUE, ...)

Arguments

path path to the package to build the readme.
quiet If TRUE, suppress output.
... additional arguments passed to rmarkdown::render()
build_site

**Execute pkgdown build_site in a package**

**Description**

`build_site()` is a shortcut for `pkgdown::build_site()`, it generates the static HTML documentation.

**Usage**

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

**Arguments**

- `path` path to the package to build the static HTML.
- `quiet` If TRUE, suppress output.
- `...` additional arguments passed to `pkgdown::build_site()`

---

**build_vignettes**

Build package vignettes.

**Description**

Builds package vignettes using the same algorithm that R CMD build does. This means including non-Sweave vignettes, using makefiles (if present), and copying over extra files. The files are copied in the 'doc' directory and an vignette index is created in 'Meta/vignette.rds', as they would be in a built package. 'doc' and 'Meta' are added to .Rbuildignore, so will not be included in the built package. These files can be checked into version control, so they can be viewed with `browseVignettes()` and `vignette()` if the package has been loaded with `load_all()` without needing to re-build them locally.

**Usage**

```
build_vignettes(pkg = ".", dependencies = "VignetteBuilder",
    clean = TRUE, upgrade = "never", quiet = TRUE, install = TRUE,
    keep_md = TRUE)
```

**Arguments**

- `pkg` The package to use, can be a file path to the package or a package object. See `as.package()` for more information.
dependencies Which dependencies do you want to check? Can be a character vector (selecting from "Depends", "Imports", "LinkingTo", "Suggests", or "Enhances"), or a logical vector.

TRUE is shorthand for "Depends", "Imports", "LinkingTo" and "Suggests". NA is shorthand for "Depends", "Imports" and "LinkingTo" and is the default. FALSE is shorthand for no dependencies (i.e. just check this package, not its dependencies).

clean Remove all files generated by the build, even if there were copies there before.

upgrade One of "default", "ask", "always", or "never". "default" respects the value of the R_REMOTES_UPGRADE environment variable if set, and falls back to "ask" if unset. "ask" prompts the user for which out of date packages to upgrade. For non-interactive sessions "ask" is equivalent to "always". TRUE and FALSE are also accepted and correspond to "always" and "never" respectively.

quiet If TRUE, suppresses most output. Set to FALSE if you need to debug.

install If TRUE, install the package before building vignettes.

keep_md If TRUE, move md intermediates as well as rendered outputs. Most useful when using the keep_md YAML option for Rmarkdown outputs. See https://bookdown.org/yihui/rmarkdown/html-document.html#keeping-markdown.

See Also

_clean_vignettes() to remove the pdfs in ‘doc’ created from vignettes
_clean_vignettes() to remove build tex/pdf files.

Description

check automatically builds and checks a source package, using all known best practices. check_built checks an already built package.

Usage

check(pkg = ".",  
document = NA,  
build_args = NULL, ...,  
manual = FALSE,  
cran = TRUE,  
remote = FALSE,  
Incoming = remote,  
force_suggests = FALSE,  
run_dont_test = FALSE,  
args = "--timings",  
env_vars = NULL,  
quiet = FALSE,  
check_dir = tempdir(),  
cleanup = TRUE,  
error_on = c("never", "error", "warning", "note"))

check_built(path = NULL,  
cran = TRUE,  
remote = FALSE,  
Incoming = remote,  
force_suggests = FALSE,  
run_dont_test = FALSE,  
manual = FALSE,  
args = "--timings",  
env_vars = NULL,  
check_dir = tempdir(),  
quiet = FALSE,  
error_on = c("never", "error", "warning", "note"))
Arguments

pkg  The package to use, can be a file path to the package or a package object. See `as.package()` for more information.
document  If NA and the package uses roxygen2, will rerun `document()` prior to checking. Use TRUE and FALSE to override this default.
build_args  Additional arguments passed to `R CMD build`
...  Additional arguments passed on to `pkgbuild::build()`.
manual  If FALSE, don’t build and check manual ("--no-manual").
cran  if TRUE (the default), check using the same settings as CRAN uses.
remote  Sets `_R_CHECK_CRAN_INCOMING_REMOTE_` env var. If TRUE, performs a number of CRAN incoming checks that require remote access.
incoming  Sets `_R_CHECK_CRAN_INCOMING_` env var. If TRUE, performs a number of CRAN incoming checks.
force_suggests  Sets `_R_CHECK_FORCE_SUGGESTS_`. If FALSE (the default), check will proceed even if all suggested packages aren’t found.
run_dont_test  Sets "--run-donttest" so that tests surrounded in `\dontest{}` are also tested. This is important for CRAN submission.
args  Additional arguments passed to `R CMD check`
env_vars  Environment variables set during `R CMD check`
quiet  if TRUE suppresses output from this function.
check_dir  the directory in which the package is checked compatibility. `args = "--output=/foo/bar"` can be used to change the check directory.
cleanup  Deprecated.
error_on  Whether to throw an error on `R CMD check` failures. Note that the check is always completed (unless a timeout happens), and the error is only thrown after completion. If "never", then no errors are thrown. If "error", then only ERROR failures generate errors. If "warning", then WARNING failures generate errors as well. If "note", then any check failure generated an error.
path  Path to built package.

details

Passing `R CMD check` is essential if you want to submit your package to CRAN: you must not have any ERRORs or WARNINGs, and you want to ensure that there are as few NOTEs as possible. If you are not submitting to CRAN, at least ensure that there are no ERRORs or WARNINGs: these typically represent serious problems.

check automatically builds a package before calling `check_built` as this is the recommended way to check packages. Note that this process runs in an independent realisation of R, so nothing in your current workspace will affect the process.

value

An object containing errors, warnings, and notes.
Environment variables

Devtools does its best to set up an environment that combines best practices with how check works on CRAN. This includes:

- The standard environment variables set by devtools: `r_env_vars()`. Of particular note for package tests is the NOT_CRAN env var which lets you know that your tests are not running on CRAN, and hence can take a reasonable amount of time.
- Debugging flags for the compiler, set by `compiler_flags(FALSE)`.
- If aspell is found `_R_CHECK_CRAN_INCOMING_USE_ASPELL_` is set to TRUE. If no spell checker is installed, a warning is issued.
- env vars set by arguments incoming, remote and force_suggests

See Also

`release()` if you want to send the checked package to CRAN.

---

check_failures

* Parses R CMD check log file for ERRORs, WARNINGs and NOTEs

**Description**

Extracts check messages from the `00check.log` file generated by R CMD check.

**Usage**

`check_failures(path, error = TRUE, warning = TRUE, note = TRUE)`

**Arguments**

- `path` check path, e.g., value of the check_dir argument in a call to `check()`
- `error`, `warning`, `note` logical, indicates if errors, warnings and/or notes should be returned

**Value**

a character vector with the relevant messages, can have length zero if no messages are found

See Also

`check()`
check_man

Check documentation, as R CMD check does.

Description

This function attempts to run the documentation related checks in the same way that R CMD check does. Unfortunately it can’t run them all because some tests require the package to be loaded, and the way they attempt to load the code conflicts with how devtools does it.

Usage

check_man(pkg = ".")

Arguments

pkg

The package to use, can be a file path to the package or a package object. See as.package() for more information.

Value

Nothing. This function is called purely for it’s side effects: if

Examples

## Not run:
check_man("mypkg")

## End(Not run)

cHECK

Run CRAN checks for package on R-hub

Description

It runs build() on the package, with the arguments specified in args, and then submits it to the R-hub builder at https://builder.r-hub.io. The interactive option controls whether the function waits for the check output. Regardless, after the check is complete, R-hub sends an email with the results to the package maintainer.

Usage

check_rhub(pkg = ".", platforms = NULL, email = NULL, interactive = TRUE, build_args = NULL, ...)

check_rhub
Arguments

pkg  The package to use, can be a file path to the package or a package object. See `as.package()` for more information.
platforms  R-hub platforms to run the check on. If NULL uses default list of CRAN checkers (one for each major platform, and one with extra checks if you have compiled code). You can also specify your own, see `rhub::platforms()` for a complete list.
email  email address to notify, defaults to the maintainer address in the package.
interactive  whether to show the status of the build interactively. R-hub will send an email to the package maintainer's email address, regardless of whether the check is interactive or not.
build_args  Arguments passed to R CMD build
...  extra arguments, passed to `rhub::check_for_cran()`.

Value

a `rhub_check` object.

About email validation on r-hub

To build and check R packages on R-hub, you need to validate your email address. This is because R-hub sends out emails about build results. See more at `rhub::validate_email()`.

See Also

Other build functions: `check_win`

---

Description

This function works by bundling source package, and then uploading to https://win-builder.r-project.org/. Once building is complete you’ll receive a link to the built package in the email address listed in the maintainer field. It usually takes around 30 minutes. As a side effect, win-build also runs R CMD check on the package, so `check_win` is also useful to check that your package is ok on windows.

Usage

```r
check_win_devel(pkg = ".", args = NULL, manual = TRUE,
email = NULL, quiet = FALSE, ...)
```

```r
check_win_release(pkg = ".", args = NULL, manual = TRUE,
email = NULL, quiet = FALSE, ...)
```

```r
check_win_oldrelease(pkg = ".", args = NULL, manual = TRUE,
email = NULL, quiet = FALSE, ...)
```
### Arguments

- **pkg**
  The package to use, can be a file path to the package or a package object. See `as.package()` for more information.

- **args**
  An optional character vector of additional command line arguments to be passed to `R CMD build` if `binary = FALSE`, or `R CMD install` if `binary = TRUE`.

- **manual**
  For source packages: if `FALSE`, don't build PDF vignettes (`--no-build-vignettes`) or manual (`--no-manual`).

- **email**
  An alternative email to use, default `NULL` uses the package Maintainer’s email.

- **quiet**
  If `TRUE`, suppresses output.

- **...**
  Additional arguments passed to `pkgbuild::build()`.

### Functions

- `check_win_devel`: Check package on the development version of R.
- `check_win_release`: Check package on the release version of R.
- `check_win_oldrelease`: Check package on the previous major release version of R.

### See Also

Other build functions: `check_rhub`

---

clean_vignettes  
**Clean built vignettes.**

### Description

This uses a fairly rudimentary algorithm where any files in `doc` with a name that exists in `vignettes` are removed.

### Usage

```r
clean_vignettes(pkg = ".")
```

### Arguments

- **pkg**
  The package to use, can be a file path to the package or a package object. See `as.package()` for more information.
devtools

create  

Create a package

Description

Create a package

Usage

create(path, fields = NULL, rstudio = rstudioapi:::isAvailable(),
      open = interactive())

Arguments

path  
A path. If it exists, it is used. If it does not exist, it is created, provided that the
parent path exists.

fields  
A named list of fields to add to DESCRIPTION, potentially overriding default val-
ues. See use_description() for how you can set personalized defaults using
package options

rstudio  
If TRUE, calls use_rstudio() to make the new package or into an RStudio
Project.

open  
If TRUE, activates the new project:

• If RStudio desktop, the package is opened in a new session.
• If on RStudio server, the current RStudio project is activated.
• Otherwise, the working directory and active project is changed.

Value

The path to the created package, invisibly.

devtools  

Package development tools for R.

Description

Collection of package development tools.
dev_mode

Package options

Devtools uses the following options() to configure behaviour:

- devtools.path: path to use for dev_mode()
- devtools.name: your name, used when signing draft emails.
- devtools.install.args: a string giving extra arguments passed to \texttt{R CMD install} by install().
- devtools.desc.author: a string providing a default Authors@R string to be used in new \texttt{DESCRIPTION}'s. Should be a \texttt{R} code, and look like "Hadley Wickham <h.wickham@gmail.com> [aut,cre]". See utils::as.person() for more details.
- devtools.desc.license: a default license string to use for new packages.
- devtools.desc.suggests: a character vector listing packages to to add to suggests by defaults for new packages.
- devtools.desc: a named list listing any other extra options to add to `DESCRIPTION`

Author(s)

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- Winston Chang

Other contributors:

- RStudio [copyright holder]
- R Core team (Some namespace and vignette code extracted from base R) [contributor]

See Also

Useful links:

- \url{https://github.com/r-lib/devtools}
- Report bugs at \url{https://github.com/r-lib/devtools/issues}

\begin{verbatim}
dev_mode

\end{verbatim}

\textit{Activate and deactivate development mode.}

Description

When activated, dev_mode creates a new library for storing installed packages. This new library is automatically created when dev_mode is activated if it does not already exist. This allows you to test development packages in a sandbox, without interfering with the other packages you have installed.
Usage

dev_mode(on = NULL, path = getOption("devtools.path"))

Arguments

- **on**: turn dev mode on (TRUE) or off (FALSE). If omitted will guess based on whether or not path is in `.libPaths()`
- **path**: directory to library.

Examples

```r
## Not run:
device()
device()
## End(Not run)
```

---

**dev_sitrep**  Report package development situation

Description

`dev_sitrep()` reports

- If R is up to date
- If RStudio is up to date
- If compiler build tools are installed and available for use
- If devtools and its dependencies are up to date
- If the package’s dependencies are up to date

Call this function if things seem weird and you’re not sure what’s wrong or how to fix it. If this function returns no output everything should be ready for package development.

Usage

`dev_sitrep(pkg = ".", debug = FALSE)`

Arguments

- **pkg**: The package to use, can be a file path to the package or a package object. See `as.package()` for more information.
- **debug**: If TRUE, will print out extra information useful for debugging. If FALSE, it will use result cached from a previous run.

Value

A named list, with S3 class dev_sitrep (for printing purposes).
Examples

```r
## Not run:
dev_sitrep()

## End(Not run)
```

---

**Description**

Use roxygen to document a package.

This function is a wrapper for the `roxygen2::roxygenize()` function from the roxygen2 package. See the documentation and vignettes of that package to learn how to use roxygen.

**Usage**

```r
document(pkg = ".", roclets = NULL, quiet = FALSE)
```

**Arguments**

- `pkg`: The package to use, can be a file path to the package or a package object. See `as.package()` for more information.
- `roclets`: Character vector of roclet names to use with package. This defaults to NULL, which will use the roclets fields in the list provided in the Roxygen DESCRIPTION field. If none are specified, defaults to c("collate","namespace","rd").
- `quiet`: if TRUE suppresses output from this function.

**See Also**

`roxygen2::roxygenize()`, `browseVignettes("roxygen2")`

---

**install**

Install a local development package.

**Description**

Uses R CMD INSTALL to install the package. Will also try to install dependencies of the package from CRAN, if they’re not already installed.

**Usage**

```r
install(pkg = ".", reload = TRUE, quick = FALSE, build = !quick,
    args = getOption("devtools.install.args"), quiet = FALSE,
    dependencies = NA, upgrade = "ask", build_vignettes = FALSE,
    keep_source = getOption("keep.source.pkgs"), force = FALSE, ...)
```
Arguments

pkg  The package to use, can be a file path to the package or a package object. See as.package() for more information.
reload if TRUE (the default), will automatically reload the package after installing.
quick if TRUE skips docs, multiple-architectures, demos, and vignettes, to make installation as fast as possible.
build if TRUE pkgbuild::build()s the package first: this ensures that the installation is completely clean, and prevents any binary artefacts (like '.o', .so) from appearing in your local package directory, but is considerably slower, because every compile has to start from scratch.
args  An optional character vector of additional command line arguments to be passed to R CMD INSTALL. This defaults to the value of the option "devtools.install.args".
quiet  If TRUE, suppress output.
dependencies Which dependencies do you want to check? Can be a character vector (selecting from "Depends", "Imports", "LinkingTo", "Suggests", or "Enhances"), or a logical vector.
TRUE is shorthand for "Depends", "Imports", "LinkingTo" and "Suggests". NA is shorthand for "Depends", "Imports" and "LinkingTo" and is the default. FALSE is shorthand for no dependencies (i.e. just check this package, not its dependencies).
upgrade One of "default", "ask", "always", or "never". "default" respects the value of the R_REMOTES_UPGRADE environment variable if set, and falls back to "ask" if unset. "ask" prompts the user for which out of date packages to upgrade. For non-interactive sessions "ask" is equivalent to "always". TRUE and FALSE are also accepted and correspond to "always" and "never" respectively.
build_vignettes if TRUE, will build vignettes. Normally it is build that’s responsible for creating vignettes; this argument makes sure vignettes are built even if a build never happens (i.e. because local = TRUE).
keep_source If TRUE will keep the srcrefs from an installed package. This is useful for debugging (especially inside of RStudio). It defaults to the option "keep.srcref.pkgs".
force Force installation, even if the remote state has not changed since the previous install.
... additional arguments passed to remotes::install_deps() when installing dependencies.

Details

By default, installation takes place using the current package directory. If you have compiled code, this means that artefacts of compilation will be created in the src/ directory. If you want to avoid this, you can use build = TRUE to first build a package bundle and then install it from a temporary directory. This is slower, but keeps the source directory pristine.

If the package is loaded, it will be reloaded after installation. This is not always completely possible, see reload() for caveats.

To install a package in a non-default library, use withr::with_libpaths().
install_deps

See Also

update_packages() to update installed packages from the source location and with_debug() to install packages with debugging flags set.

Other package installation: uninstall

install_deps

Install package dependencies if needed.

Description

install_deps() will install the user dependencies needed to run the package, install_dev_deps() will also install the development dependencies needed to test and build the package.

Usage

install_deps(pkg = ".", dependencies = NA,
repos = getOption("repos"), type = getOption("pkgType"),
upgrade = c("default", "ask", "always", "never"), quiet = FALSE,
build = TRUE, build_opts = c("--no-resave-data", "--no-manual",
" --no-build-vignettes"), ...)

install_dev_deps(pkg = ".", dependencies = TRUE,
repos = getOption("repos"), type = getOption("pkgType"),
upgrade = c("default", "ask", "always", "never"), quiet = FALSE,
build = TRUE, build_opts = c("--no-resave-data", "--no-manual",
" --no-build-vignettes"), ...)

Arguments

pkg
The package to use, can be a file path to the package or a package object. See as.package() for more information.
dependencies
Which dependencies do you want to check? Can be a character vector (selecting from "Depends", "Imports", "LinkingTo", "Suggests", or "Enhances"), or a logical vector. TRUE is shorthand for "Depends", "Imports", "LinkingTo" and "Suggests". NA is shorthand for "Depends", "Imports" and "LinkingTo" and is the default. FALSE is shorthand for no dependencies (i.e. just check this package, not its dependencies).
repos
A character vector giving repositories to use.
type
Type of package to update.
upgrade
One of "default", "ask", "always", or "never". "default" respects the value of the R_REMOTES_UPGRADE environment variable if set, and falls back to "ask" if unset. "ask" prompts the user for which out of date packages to upgrade. For non-interactive sessions "ask" is equivalent to "always". TRUE and FALSE are also accepted and correspond to "always" and "never" respectively.
quiet  If TRUE, suppress output.
build  If TRUE build the package before installing.
build_opts  Options to pass to `R CMD build`, only used when build
...  additional arguments passed to `utils::install.packages()`.

Examples

```r
## Not run: install_deps(".")
```

---

**`lint`**  
Lint all source files in a package.

---

**Description**

The default linters correspond to the style guide at [http://r-pkgs.had.co.nz/r.html#style](http://r-pkgs.had.co.nz/r.html#style), however it is possible to override any or all of them using the `linters` parameter.

**Usage**

```r
lint(pkg = ".", cache = TRUE, ...)
```

**Arguments**

- `pkg`  The package to use, can be a file path to the package or a package object. See `as.package()` for more information.
- `cache`  store the lint results so repeated lints of the same content use the previous results.
- `...`  additional arguments passed to `lintr::lint_package()`

**Details**

The lintr cache is by default stored in `~/.R/lintr_cache/` (this can be configured by setting `options(lintr.cache_directory)`). It can be cleared by calling `lintr::clear_cache()`.

**See Also**

`lintr::lint_package()`, `lintr::lint()`
Description

load_all loads a package. It roughly simulates what happens when a package is installed and loaded with library().

Usage

load_all(path = ".", reset = TRUE, recompile = FALSE,
          export_all = TRUE, helpers = TRUE, quiet = FALSE, ...)

Arguments

path Path to a package, or within a package.
reset clear package environment and reset file cache before loading any pieces of the package. This is equivalent to running unload() and is the default. Use reset = FALSE may be faster for large code bases, but is a significantly less accurate approximation.
recompile DEPRECATED. force a recompile of DLL from source code, if present. This is equivalent to running pkgbuild::clean_dll() before load_all
export_all If TRUE (the default), export all objects. If FALSE, export only the objects that are listed as exports in the NAMESPACE file.
helpers if TRUE loads testthat test helpers.
quiet if TRUE suppresses output from this function.
... Additional arguments passed to pkgload::load_all().

Details

Currently load_all:

- Loads all data files in data/. See load_data() for more details.
- Sources all R files in the R directory, storing results in environment that behaves like a regular package namespace. See below and load_code() for more details.
- Compiles any C, C++, or Fortran code in the src/ directory and connects the generated DLL into R. See compile_dll() for more details.
- Runs .onAttach(). .onLoad() and .onUnload() functions at the correct times.
- If you use testthat, will load all test helpers so you can access them interactively. devtools sets the DEVTOOLS_LOAD environment variable to "true" to let you check whether the helpers are run during package loading.
Namespaces

The namespace environment $<\text{namespace:pkgname}>$, is a child of the imports environment, which has the name attribute imports:pkgname. It is in turn a child of $<\text{namespace:base}>$, which is a child of the global environment. (There is also a copy of the base namespace that is a child of the empty environment.)

The package environment $<\text{package:pkgname}>$ is an ancestor of the global environment. Normally when loading a package, the objects listed as exports in the NAMESPACE file are copied from the namespace to the package environment. However, load_all by default will copy all objects (not just the ones listed as exports) to the package environment. This is useful during development because it makes all objects easy to access.

To export only the objects listed as exports, use export_all=FALSE. This more closely simulates behavior when loading an installed package with library(), and can be useful for checking for missing exports.

Shim files

load_all also inserts shim functions into the imports environment of the loaded package. It presently adds a replacement version of system.file which returns different paths from base::system.file. This is needed because installed and uninstalled package sources have different directory structures. Note that this is not a perfect replacement for base::system.file.

Examples

```r
## Not run:
# Load the package in the current directory
load_all("./")

# Running again loads changed files
load_all("./")

# With reset=TRUE, unload and reload the package for a clean start
load_all("./", TRUE)

# With export_all=FALSE, only objects listed as exports in NAMESPACE
# are exported
load_all("./", export_all = FALSE)

## End(Not run)
```

missing_s3

Find missing s3 exports.

Description

The method is heuristic - looking for objs with a period in their name.
**package_file**

**Usage**

missing_s3(pkg = ".")

**Arguments**

pkg  The package to use, can be a file path to the package or a package object. See `as.package()` for more information.

---

**Usage**

package_file(..., path = ".")

**Arguments**

... Components of the path.
path Place to start search for package directory.

**Examples**

```r
## Not run:
package_file("figures", "figure_1")
```

## End(Not run)

---

**release**

*Release package to CRAN.*

**Description**

Run automated and manual tests, then post package to CRAN.

**Usage**

release(pkg = ".", check = FALSE, args = NULL)
Arguments

pkg
The package to use, can be a file path to the package or a package object. See `as.package()` for more information.

check
if TRUE, run checking, otherwise omit it. This is useful if you’ve just checked your package and you’re ready to release it.

args
An optional character vector of additional command line arguments to be passed to `R CMD build`.

Details

The package release process will:

- Confirm that the package passes `R CMD check` on relevant platforms
- Confirm that important files are up-to-date
- Build the package
- Submit the package to CRAN, using comments in "cran-comments.md"

You can add arbitrary extra questions by defining an (un-exported) function called `release_questions()` that returns a character vector of additional questions to ask.

You also need to read the CRAN repository policy at https://cran.r-project.org/web/packages/policies.html and make sure you’re in line with the policies. `release` tries to automate as many of polices as possible, but it’s impossible to be completely comprehensive, and they do change in between releases of devtools.

See Also

`usethis::use_release_issue()` to create a checklist of release tasks that you can use in addition to or in place of `release`.

Description

This attempts to unload and reload an installed package. If the package is not loaded already, it does nothing. It’s not always possible to cleanly unload a package: see the caveats in `unload()` for some of the potential failure points. If in doubt, restart R and reload the package with `library()`.

Usage

`reload(pkg = ".", quiet = FALSE)`

Arguments

pkg
The package to use, can be a file path to the package or a package object. See `as.package()` for more information.

quiet
if TRUE suppresses output from this function.

reload
Unload and reload package.
revdep

See Also

load_all() to load a package for interactive development.

Examples

## Not run:
# Reload package that is in current directory
reload(".")

# Reload package that is in ./ggplot2/
reload("ggplot2/")

# Can use inst() to find the package path
# This will reload the installed ggplot2 package
reload(pkgload::inst("ggplot2"))

## End(Not run)

revdep

Reverse dependency tools.

Description

Tools to check and notify maintainers of all CRAN and Bioconductor packages that depend on the specified package.

Usage

revdep(pkg, dependencies = c("Depends", "Imports", "Suggests", "LinkingTo"), recursive = FALSE, ignore = NULL, bioconductor = FALSE)

revdep_maintainers(pkg = ".")

Arguments

pkg Package name. This is unlike most devtools packages which take a path because you might want to determine dependencies for a package that you don’t have installed. If omitted, defaults to the name of the current package.

dependencies A character vector listing the types of dependencies to follow.

recursive If TRUE look for full set of recursive dependencies.

ignore A character vector of package names to ignore. These packages will not appear in returned vector.

bioconductor If TRUE also look for dependencies amongst Bioconductor packages.
Details

The first run in a session will be time-consuming because it must download all package metadata from CRAN and Bioconductor. Subsequent runs will be faster.

See Also

The `revdepcheck` package can be used to run `R CMD check` on all reverse dependencies.

Examples

```r
## Not run:
revdep("ggplot2")

revdep("ggplot2", ignore = c("xkcd", "zoo"))

## End(Not run)
```

---

**run_examples**

Run all examples in a package.

Description

One of the most frustrating parts of `R CMD check` is getting all of your examples to pass - whenever one fails you need to fix the problem and then restart the whole process. This function makes it a little easier by making it possible to run all examples from an R function.

Usage

```r
run_examples(pkg = ".", start = NULL, show = TRUE, test = FALSE,
run = TRUE, fresh = FALSE, document = TRUE)
```

Arguments

- `pkg` The package to use, can be a file path to the package or a package object. See `as.package()` for more information.
- `start` Where to start running the examples: this can either be the name of Rd file to start with (with or without extensions), or a topic name. If omitted, will start with the (lexicographically) first file. This is useful if you have a lot of examples and don’t want to rerun them every time you fix a problem.
- `show` DEPRECATED.
- `test` if TRUE, code in `\donttest{}` will be commented out. If FALSE, code in `\testonly{}` will be commented out.
- `run` if TRUE, code in `\dontrun{}` will be commented out.
- `fresh` if TRUE, will be run in a fresh R session. This has the advantage that there’s no way the examples can depend on anything in the current session, but interactive code (like `browser()`) won’t work.
- `document` if TRUE, `document()` will be run to ensure examples are updated before running them.
save_all

**Save all documents in an active IDE session.**

**Description**

Helper function wrapping IDE-specific calls to save all documents in the active session. In this form, callers of `save_all()` don’t need to execute any IDE-specific code. This function can be extended to include other IDE implementations of their equivalent `rstudioapi::documentSaveAll()` methods.

**Usage**

```r
save_all()
```

---

**show_news**

**Show package news**

**Description**

Show package news

**Usage**

```r
show_news(pkg = ".", latest = TRUE, ...)
```

**Arguments**

- `pkg` The package to use, can be a file path to the package or a package object. See `as.package()` for more information.
- `latest` if TRUE, only show the news for the most recent version.
- `...` other arguments passed on to `news`
source_gist

Run a script on gist

Description

“Gist is a simple way to share snippets and pastes with others. All gists are git repositories, so they are automatically versioned, forkable and usable as a git repository.” 

https://gist.github.com/

Usage

source_gist(id, ..., filename = NULL, sha1 = NULL, quiet = FALSE)

Arguments

id 
either full url (character), gist ID (numeric or character of numeric).

... 
other options passed to source()

filename 
if there is more than one R file in the gist, which one to source (filename ending in `.R`)? Default NULL will source the first file.

sha1 
The SHA-1 hash of the file at the remote URL. This is highly recommend as it prevents you from accidentally running code that’s not what you expect. See source_url() for more information on using a SHA-1 hash.

quiet 
if FALSE, the default, prints informative messages.

See Also

source_url()

Examples

## Not run:
# You can run gists given their id
source_gist(6872663)
source_gist("6872663")

# Or their html url
source_gist("https://gist.github.com/hadley/6872663")
source_gist("gist.github.com/hadley/6872663")

# It's highly recommend that you run source_gist with the optional
# sha1 argument - this will throw an error if the file has changed since
# you first ran it
source_gist(6872663, sha1 = "54f1db27e60")
# Wrong hash will result in error
source_gist(6872663, sha1 = "54f1db27e61")

# You can speficy a particular R file in the gist
source_gist(6872663, filename = "hi.r")
source_gist(6872663, filename = "hi.r", sha1 = "54f1db27e60")
source_url

## End(Not run)

---

source_url  

**Run a script through some protocols such as http, https, ftp, etc.**

### Description

If a SHA-1 hash is specified with the `sha1` argument, then this function will check the SHA-1 hash of the downloaded file to make sure it matches the expected value, and throw an error if it does not match. If the SHA-1 hash is not specified, it will print a message displaying the hash of the downloaded file. The purpose of this is to improve security when running remotely-hosted code; if you have a hash of the file, you can be sure that it has not changed. For convenience, it is possible to use a truncated SHA1 hash, down to 6 characters, but keep in mind that a truncated hash won’t be as secure as the full hash.

### Usage

```r
source_url(url, ..., sha1 = NULL)
```

### Arguments

- `url`  
- `...` other options passed to `source()`
- `sha1` The (prefix of the) SHA-1 hash of the file at the remote URL.

### See Also

`source_gist()`

### Examples

```r
## Not run:

source_url("https://gist.github.com/hadley/6872663/raw/hi.r")

# With a hash, to make sure the remote file hasn't changed
source_url("https://gist.github.com/hadley/6872663/raw/hi.r",
  sha1 = "54f1db27e60bb7e0486d785604909b49e8f9f9")

# With a truncated hash
source_url("https://gist.github.com/hadley/6872663/raw/hi.r",
  sha1 = "54f1db27e60")

## End(Not run)
```
spell_check  Spell checking

Description

Runs a spell check on text fields in the package description file, manual pages, and optionally vignettes. Wraps the spelling package.

Usage

spell_check(pkg = ".", vignettes = TRUE, use_wordlist = TRUE)

Arguments

pkg  The package to use, can be a file path to the package or a package object. See as.package() for more information.

vignettes  also check all rmd and rnw files in the pkg vignettes folder

use_wordlist  ignore words in the package WORDLIST file

test  Execute test_that tests in a package.

Description

test() is a shortcut for testthat::test_dir(). it runs all of a package's tests. test_file runs test() on the active file. test_coverage() computes test coverage for your package. It is a shortcut for covr::package_coverage() and covr::report(). test_coverage_file() computes test coverage for the active file. Is a shortcut for covr::file_coverage() and covr::report().

Usage

test(pkg = ".", filter = NULL, ...)

test_coverage(pkg = ".", show_report = interactive(), ...)

uses_testthat(pkg = ".")

test_file(file = find_active_file(), ...)

test_coverage_file(file = find_active_file(), filter = TRUE, show_report = interactive(), ...)
uninstall

Arguments

pkg
The package to use, can be a file path to the package or a package object. See as.package() for more information.

filter
If not NULL, only tests with file names matching this regular expression will be executed. Matching be performed on the file name after it has been stripped of "test-" and ".R".

... additional arguments passed to testthat::test_dir() and covr::package_coverage()

show_report
Show the test coverage report.

file
One or more source or test files. If a source file the corresponding test file will be run. The default is to use the active file in RStudio (if available).

uninstall

Uninstall a local development package.

Description

Uses remove.package to uninstall the package. To uninstall a package from a non-default library, use withr::with_libpaths().

Usage

uninstall(pkg = ".", unload = TRUE, quiet = FALSE, lib = .libPaths()[[1]])

Arguments

pkg
The package to use, can be a file path to the package or a package object. See as.package() for more information.

unload
if TRUE (the default), will automatically unload the package prior to uninstalling.

quiet
If TRUE, suppress output.

lib
a character vector giving the library directories to remove the packages from. If missing, defaults to the first element in .libPaths().

See Also

with_debug() to install packages with debugging flags set.

Other package installation: install
Set working directory.

Usage

wd(pkg = ".", path = "")

Arguments

pkg The package to use, can be a file path to the package or a package object. See `as.package()` for more information.

path path within package. Leave empty to change working directory to package directory.
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