Package ‘devtools’

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BugReports https://github.com/r-lib/devtools/issues

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**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

```r
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

Note

The default manual = FALSE is not suitable for a CRAN submission, which may require manual = TRUE. Even better, use submit_cran() or release().

---

**build_manual**

Create package pdf manual

**Description**

Create package pdf manual

**Usage**

```r
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_rmd**

Build a Rmarkdown files package

**Description**

build_rmd() is a wrapper around `rmarkdown::render()` that first installs a temporary copy of the package, and then renders each .Rmd in a clean R session. build_readme() locates your README.Rmd and builds it into a README.md

**Usage**

```r
build_rmd(files, path = ".", output_options = list(), ..., quiet = TRUE)
build_readme(path = ".", quiet = TRUE, ...)
```
**build_site**

*Execute pkgdown build site in a package*

**Arguments**

files  The Rmarkdown files to be rendered.
path  path to the package to build the readme.
output_options  List of output options that can override the options specified in metadata (e.g. could be used to force self_contained or mathjax = "local"). Note that this is only valid when the output format is read from metadata (i.e. not a custom format object passed to output_format).
...  additional arguments passed to rmarkdown::render()
quiet  If TRUE, suppress output.

**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

```r
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).
  - The value "soft" means the same as `TRUE`, "hard" means the same as `NA`.
  - You can also specify dependencies from one or more additional fields, common ones include:
    - Config/Needs/website - for dependencies used in building the pkgdown site.
    - Config/Needs/coverage for dependencies used in calculating test coverage.

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

- **upgrade**
  - Should package dependencies be upgraded? 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.
check

Build and check a package, cleaning up automatically on success.

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 = NULL,
  build_args = NULL,
  ....,
  manual = FALSE,
  cran = TRUE,
  remote = FALSE,
  incoming = remote,
  force_suggests = FALSE,
  run_dont_test = FALSE,
  args = "--timings",
  env_vars = c(NOT_CRAN = "true"),
  quiet = FALSE,
  check_dir = tempdir(),
  cleanup = TRUE,
  vignettes = 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 By default (NULL) will document if your installed roxygen2 version matches the version declared in the DESCRIPTION file. Use TRUE or FALSE to override the 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 `don'test{}` are also tested. When cran = TRUE, this only affects R 3.6 and earlier; in R 4.0.0 code in `don'test{}` is always run as part of CRAN submission.

args Character vector of arguments to pass to R CMD check. Pass each argument as a single element of this character vector (do not use spaces to delimit arguments like you would in the shell). For example, to skip running of examples and tests, use args = c("--no-examples","--no-tests") and not args = "--no-examples --no-tests". (Note that instead of the --output option you should use the check_dir argument, because --output cannot deal with spaces and other special characters on Windows.)

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.

vignettes If FALSE, do not build or check vignettes, equivalent to using args = ' --ignore-vignettes' and build_args = ' --no-build-vignettes'.

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. Its default can be modified with the R CMD CHECK_ERROR_ON environment variable. If that is not set, then "never" is used.

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_mac_release  Check macOS package

Description

This function works by bundling source package, and then uploading to https://mac.r-project.org/macbuilder/submit.html. This function returns a link to the page with the check results.

Usage

check_mac_release(
  pkg = ".", 
  dep_pkgs = ".", 
  args = NULL, 
  manual = TRUE, 
  quiet = FALSE, 
  ... 
)

check_man

Arguments

pkg  The package to use, can be a file path to the package or a package object. See as.package() for more information.
dep_pkgs  Additional custom dependencies to install prior to checking the package.
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).
quiet  If TRUE, suppresses output.
...  Additional arguments passed to pkgbuild::build().

Value

The url with the check results (invisibly)

See Also

Other build functions: check_rhub(), check_win()

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

```r
## Not run:
check_man("mypkg")
## End(Not run)
```
**check_rhub**

*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](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**

```r
check_rhub(
  pkg = "..",
  platforms = NULL,
  email = NULL,
  interactive = TRUE,
  build_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.

- **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()`.
check_win

Build windows binary package.

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

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

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

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.

See Also

Other build functions: check_mac_release(), check_win()
**clean_vignettes**

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_mac_release(), 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.
create

Create a package

Description
Create a package

Usage
create(path, ..., open = FALSE)

Arguments
path A path. If it exists, it is used. If it does not exist, it is created, provided that the parent path exists.
... Additional arguments passed to usethis::create_package()
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.

dev_mode

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:
dev_mode()
dev_mode()

## End(Not run)
```

---

**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**

```r
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)
```
**document**

Use roxygen to document a package.

### Description

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. The default, NULL, uses the roxygen roclets option, which 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 = "default",
  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 instal-
lation as fast as possible.

build
if TRUE pkgbuild::build()s the package first: this ensures that the installa-
tion 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 (select-
ing 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 dependen-
cies).
The value "soft" means the same as TRUE, "hard" means the same as NA.
You can also specify dependencies from one or more additional fields, common
ones include:
• Config/Needs/website - for dependencies used in building the pkgdown site.
• Config/Needs/coverage for dependencies used in calculating test coverage.

upgrade
Should package dependencies be upgraded? 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 build = FALSE).

keep_source
If TRUE will keep the srcrefs from an installed package. This is useful for debug-
ging (especially inside of RStudio). It defaults to the option "keep.source.pkggs".

force
Force installation, even if the remote state has not changed since the previous
install.

... additional arguments passed to remotes::install_deps() when installing de-
pendencies.
install_deps

Details

If `quick = TRUE`, 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()`.

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**

```r
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"), 
  ... 
)
```

```r
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"), 
)"
install_deps

...)

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).

The value "soft" means the same as TRUE, "hard" means the same as NA.

You can also specify dependencies from one or more additional fields, common ones include:

- Config/Needs/website - for dependencies used in building the pkgdown site.
- Config/Needs/coverage for dependencies used in calculating test coverage.

repos
A character vector giving repositories to use.

type
Type of package to update.

upgrade
Should package dependencies be upgraded? 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 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.

build_opts
Options to pass to R CMD build, only used when build is TRUE.

... additional arguments passed to remotes::install_deps() when installing dependencies.

Examples

# Not run: install_deps(".")
lint

Lint all source files in a package.

Description

The default linters correspond to the style guide at https://style.tidyverse.org/, however it is possible to override any or all of them using the linters parameter.

Usage

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()

load_all

Load complete package

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,
  ...
)

**load_all**

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 largely equivalent to running `unload()`, however the old namespaces are not completely removed and no `.onUnload()` hooks are called. 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 `pkgload::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 `<namespace::pkgname>`, is a child of the imports environment, which has the name attribute `imports::pkgname`. It is in turn a child of `<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 `<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.

Usage

```r
missing_s3(pkg = ".")
```

Arguments

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

*Release package to CRAN.*

**Description**

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

**Usage**

```r
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`.
reload

Unload and reload package.

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\n\n\ns as.package() for more information.

quiet if TRUE suppresses output from this function.

See Also

load_all() to load a package for interactive development.

Examples

```r
## 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)
```

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

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

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.

run_donttest if TRUE, do run \donttest sections in the Rd files. out.

run_dontrun if TRUE, do run \dontrun sections in the Rd files.

document if TRUE, document() will be run to ensure examples are updated before running them.

run Deprecated, see run_dontrun and run_donttest above.

test Deprecated, see run_dontrun and run_donttest above.

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

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/](https://gist.github.com/)

**Usage**

```r
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

```r
## 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 specify a particular R file in the gist
source_gist(6872663, filename = “hi.r”)  
source_gist(6872663, filename = “hi.r”, sha1 = “54f1db27e60”)

## 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`: 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

## Not run:

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

# With a hash, to make sure the remote file hasn't changed
```r
source_url("https://gist.github.com/hadley/6872663/raw/hi.r",
    sha1 = "54f1db27e60bb7e0486d78560490b49e8fe9f9")
```

# With a truncated hash
```r
source_url("https://gist.github.com/hadley/6872663/raw/hi.r",
    sha1 = "54f1db27e6")
```

## 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**

```r
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 testthat tests in a package*

---

**Description**

- test() runs all tests in a package. It’s a shortcut for `testthat::test_dir()`
- test_active_file() runs test() on the active file.
- test_coverage() computes test coverage for your package. It’s a shortcut for `covr::package_coverage()` plus `covr::report()`.
- test_coverage_active_file() computes test coverage for the active file. It’s a shortcut for `covr::file_coverage()` plus `covr::report()`.
Usage

test(pkg = ".", filter = NULL, stop_on_failure = FALSE, export_all = TRUE, ...)

test_active_file(file = find_active_file(), ...)

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

test_coverage_active_file(
  file = find_active_file(),
  filter = TRUE,
  show_report = interactive(),
  export_all = 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.

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

stop_on_failure If TRUE, throw an error if any tests fail.

export_all If TRUE (the default), export all objects. If FALSE, export only the objects that are listed as exports in the NAMESPACE file.

... additional arguments passed to wrapped functions.

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).

show_report Show the test coverage report.

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]])
wd

Set working directory.

Description

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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