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**bash**

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.

---

**build**

Build package

**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, 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 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, ...)
```

**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.

## Execute pkgdown build_site in a package

**Description**

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

**Usage**

```r
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 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 = FALSE,
  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
check

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

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

Description

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

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 R session, so nothing in your current workspace will affect the process. Under-the-hood, check() and check_built() rely on pkgbuild::build() and rcmdcheck::rcmdcheck().

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"),
)
check

quiet = FALSE,
check_dir = NULL,
cleanup = deprecated(),
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...
manual If FALSE, don’t build and check manual (--no-manual).
cran if TRUE (the default), check using the same settings as CRAN uses. Because this is a moving target and is not uniform across all of CRAN’s machine, this is on a "best effort" basis. It is more complicated than simply setting --as-cran.
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 examples surrounded in \donttest{} are also run. When cran = TRUE, this only affects R 3.6 and earlier; in R 4.0, code in \donttest{} is always run as part of CRAN submission.
check

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
Path to a directory where the check is performed. If this is not NULL, then a temporary directory is used, that is cleaned up when the returned object is garbage collected.

cleanup
[Deprecated] See `check_dir` for details.

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 `RCMDCHECK_ERROR_ON` environment variable. If that is not set, then "never" is used.

path
Path to built package.

Value
An object containing errors, warnings, notes, and more.

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 = character(),
  args = NULL,
  manual = TRUE,
  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.
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  Should the manual be built?
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()
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 no errors there will be no output.

Examples

## 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. 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()`.

See Also

Other build functions: `check_mac_release()`, `check_win()`

---

**check_win**  
*Build windows binary package.*

Description

This function works by bundling source package, and then uploading to [https://win-builder.r-project.org/](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.
check_win

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.
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    Should the manual be built?
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**

```
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

## Not run:
dev_mode()
dev_mode()
dev_mode()

## 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

## 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

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 \texttt{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

\begin{verbatim}
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,
  ...
)
\end{verbatim}

Arguments

\begin{itemize}
  \item \textbf{pkg} The package to use, can be a file path to the package or a package object. See \texttt{as.package()} for more information.
  \item \textbf{reload} if \TRUE (the default), will automatically reload the package after installing.
  \item \textbf{quick} if \TRUE skips docs, multiple-architectures, demos, and vignettes, to make installation as fast as possible.
  \item \textbf{build} if \TRUE \texttt{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.
  \item \textbf{args} An optional character vector of additional command line arguments to be passed to \texttt{R CMD INSTALL}. This defaults to the value of the option "devtools.install.args".
  \item \textbf{quiet} If \TRUE, suppress output.
  \item \textbf{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.
    \begin{itemize}
      \item \texttt{TRUE} is shorthand for "Depends", "Imports", "LinkingTo" and "Suggests".
      \item \texttt{NA} is shorthand for "Depends", "Imports" and "LinkingTo" and is the default.
    \end{itemize}
\end{itemize}
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.

**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 debugging (especially inside of RStudio). It defaults to the option "keep.source.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**

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

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).

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

```r
## 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/](https://style.tidyverse.org/), 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. Consult the lintr package to learn more about its caching behaviour.

- **...**
  Additional arguments passed to `lintr::lint_package()`.
load_all

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,
  ...
)

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 `pkgbuild::compile_dll()` for more details.

• Loads any compiled translations in `inst/po`.

• 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.

`is_loading()` returns TRUE when it is called while `load_all()` is running. This may be useful e.g. in `onLoad` hooks.

Differences with `loadNamespace()` and `library()`

`load_all()` tries its best to reproduce the behaviour of `loadNamespace()` and `library()`. However it deviates from normal package loading in several ways.

• It doesn’t install the package on disk, so `system.file()` has no way of determining the location of the development files. To work around this, pkgload installs its own version of `system.file()` on the search path to make it easier to use interactively while developing. However this definition is only visible to the global environment, not to the namespaces of third party packages.

One workaround for other packages to see the development files of your package while you’re developing with devtools is for them to use `fs::path_package()` instead of `system.file()`.

• Whereas `loadNamespace()` and `library()` only load package dependencies when they are needed, `load_all()` loads all packages referenced in `Imports` at load time.

Namespaces

The namespace environment `<namespace:pkgname>`, is a child of the imports environment, which has the name attribute `import: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`. 
missing_s3

Find missing s3 exports.

Description

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

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.

release Release package to CRAN.

Description

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

Usage

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

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

Arguments

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

DEPRECATED.

If TRUE, do run \donttest sections in the Rd files.

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

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.

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

Deprecated, see run_dontrun and run_donttest above.

Save all documents in an active IDE session.

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.

save_all()

Show package news

Show package news

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

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

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 spesify a particular R file in the gist
source_gist(6872663, filename = "hi.r")
source_gist(6872663, filename = "hi.r", sha1 = "54f1db27e60")
```
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

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

Arguments

- `url` (required)
- `...` other options passed to `source()`
- `sha1` (required)

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 = "54f1db27e60bb7e0486d78560490b49e88ef999")

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

# End(Not run)
```
spell_check

---

### spell_check

**Spelling**

**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**

```r
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,  
  ...  
)
```
uninstall

Uninstall a local development package

Description

Uses remove.packages() to uninstall the package. To uninstall a package from a non-default library, use in combination with 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), ensures the package is unloaded, 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()
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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