Package 'devtools'

February 18, 2018

```
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| bash | Open bash shell in package directory. | |
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Description

Open bash shell in package directory.

Usage

```
bash(pkg = ".")
```

Arguments

pkg package description, can be path or package name. See as .package for more information

4 build

| 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 install 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 | package description, can be path or package name. 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-manualno-resave-data) version of the package. |
| vignettes, manual | | |
| | g , | 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. |

Value

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

See Also

Other build functions: build_win

build_github_devtools 5

build_github_devtools Build the development version of devtools from GitHub.

Description

This function is especially useful for Windows users who want to upgrade their version of devtools to the development version hosted on on GitHub. In Windows, it's not possible to upgrade devtools while the package is loaded because there is an open DLL, which in Windows can't be overwritten. This function allows you to build a binary package of the development version of devtools; then you can restart R (so that devtools isn't loaded) and install the package.

Usage

```
build_github_devtools(outfile = NULL)
```

Arguments

outfile

The name of the output file. If NULL (the default), it uses ./devtools.tgz (Mac and Linux), or ./devtools.zip (Windows).

Details

Mac and Linux users don't need this function; they can use install_github to install devtools directly, without going through the separate build-restart-install steps.

This function requires a working development environment. On Windows, it needs https://cran.r-project.org/bin/windows/Rtools/.

Value

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

```
## Not run:
library(devtools)
build_github_devtools()

#### Restart R before continuing ####
install.packages("./devtools.zip", repos = NULL)

# Remove the package after installation
unlink("./devtools.zip")

## End(Not run)
```

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|------|------------|------------|--|
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| DUL | _ _ | _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. You need to ensure that these files are not included in the built package - ideally they should not be checked into source, or at least excluded with .Rbuildignore

Usage

```
build_vignettes(pkg = ".", dependencies = "VignetteBuilder")
```

Arguments

pkg package description, can be path or package name. See as package for more

information

dependencies logical indicating to also install uninstalled packages which this pkg depends

on/links to/suggests. See argument dependencies of install.packages.

See Also

clean_vignettes to remove the pdfs in 'inst/doc' created from vignettes clean_vignettes to remove build tex/pdf files.

build_win

Build windows binary package.

Description

This function works by bundling source package, and then uploading to http://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 build_win is also useful to check that your package is ok on windows.

Usage

```
build_win(pkg = ".", version = c("R-release", "R-devel"), args = NULL,
  quiet = FALSE)
```

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Arguments

| pkg | package description, can be path or package name. See as.package for more information |
|---------|---|
| version | directory to upload to on the win-builder, controlling which version of R is used to build the package. Possible options are listed on http://win-builder.r-project.org/ . Defaults to R-devel. |
| 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. |

See Also

Other build functions: build

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 = TRUE, build_args = NULL, ...,
  manual = FALSE, cran = TRUE, check_version = FALSE,
  force_suggests = FALSE, run_dont_test = FALSE, args = NULL,
  env_vars = NULL, quiet = FALSE, check_dir = tempdir(), cleanup = TRUE)

check_built(path = NULL, cran = TRUE, check_version = FALSE,
  force_suggests = FALSE, run_dont_test = FALSE, manual = FALSE,
  args = NULL, env_vars = NULL, check_dir = tempdir(), quiet = FALSE)
```

Arguments

| pkg | package description, can be path or package name. See as package for more information |
|------------|---|
| document | if TRUE (the default), will update and check documentation before running formal check. $ \\$ |
| build_args | Additional arguments passed to R CMD build |
| | Additional arguments passed on to 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. |

8 check

check_version Sets_R_CHECK_CRAN_INCOMING_ env var. If TRUE, performs a number of checked

related to version numbers of packages on CRAN.

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

cleanup Deprecated.

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 check_version and force_suggests

See Also

release if you want to send the checked package to CRAN.

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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, revdep_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

package description, can be path or package name. See as.package for more information

Value

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

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Examples

```
## Not run:
check_man("mypkg")
## End(Not run)
```

clean_dll

Remove compiled objects from /src/ directory

Description

Invisibly returns the names of the deleted files.

Usage

```
clean_dll(pkg = ".")
```

Arguments

pkg

package description, can be path or package name. See as .package for more information

See Also

```
compile_dll
```

clean_source

Sources an R file in a clean environment.

Description

Opens up a fresh R environment and sources file, ensuring that it works independently of the current working environment.

Usage

```
clean_source(path, quiet = FALSE)
```

Arguments

path

path to R script

quiet

If FALSE, the default, all input and output will be displayed, as if you'd copied and paste the code. If TRUE only the final result and the any explicitly printed

output will be displayed.

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clean_vignettes

Clean built vignettes.

Description

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

Usage

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

Arguments

pkg

package description, can be path or package name. See as package for more information

compiler_flags

Default compiler flags used by devtools.

Description

These default flags enforce good coding practice by ensuring that CFLAGS and CXXFLAGS are set to -Wall -pedantic. These tests are run by cran and are generally considered to be good practice.

Usage

```
compiler_flags(debug = FALSE)
```

Arguments

debug

If TRUE adds -g -00 to all flags (Adding FFLAGS and FCFLAGS

Details

By default compile_dll is run with compiler_flags(TRUE), and check with compiler_flags(FALSE). If you want to avoid the possible performance penalty from the debug flags, install the package.

See Also

```
Other debugging flags: with_debug
```

```
compiler_flags()
compiler_flags(TRUE)
```

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compile_dll

Compile a .dll/.so from source.

Description

compile_dll performs a fake R CMD install so code that works here should work with a regular install (and vice versa).

Usage

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

Arguments

pkg package description, can be path or package name. See as package for more

information

quiet if TRUE suppresses output from this function.

Details

During compilation, debug flags are set with compiler_flags(TRUE). Invisibly returns the names of the DLL.

Note

If this is used to compile code that uses Rcpp, you will need to add the following line to your Makevars file so that it knows where to find the Rcpp headers: PKG_CPPFLAGS=`\$(R_HOME)/bin/Rscript -e 'Rcpp:::Cxx

See Also

clean_dll to delete the compiled files.

create

Creates a new package, following all devtools package conventions.

Description

Similar to package. skeleton, except that it only creates the standard devtools directory structures; it doesn't try and create source code and data files by inspecting the global environment.

Usage

```
create(path, description = getOption("devtools.desc"), check = FALSE,
    rstudio = TRUE, quiet = FALSE)

setup(path = ".", description = getOption("devtools.desc"), check = FALSE,
    rstudio = TRUE, quiet = FALSE)
```

create_description 13

Arguments

path location to create new package. The last component of the path will be used as

the package name.

description list of description values to override default values or add additional values.

check if TRUE, will automatically run check

rstudio Create an RStudio project file? (with use_rstudio) quiet if FALSE, the default, prints informative messages.

Details

create requires that the directory doesn't exist yet; it will be created but deleted upon failure. setup assumes an existing directory from which it will infer the package name.

See Also

Text with package.skeleton

Examples

```
## Not run:
# Create a package using all defaults:
path <- file.path(tempdir(), "myDefaultPackage")
create(path)

# Override a description attribute.
path <- file.path(tempdir(), "myCustomPackage")
my_description <- list("Maintainer" =
    "'Yoni Ben-Meshulam' <yoni@opower.com>")
create(path, my_description)

## End(Not run)
```

create_description

Create a default DESCRIPTION file for a package.

Description

Create a default DESCRIPTION file for a package.

Usage

```
create_description(path = ".", extra = getOption("devtools.desc"),
  quiet = FALSE)
```

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Arguments

| path | path to package root directory |
|-------|---|
| extra | a named list of extra options to add to 'DESCRIPTION'. Arguments that take a list $% \left(1\right) =\left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left(1\right) +\left(1\right) \left(1$ |
| quiet | if TRUE, suppresses output from this function. |

Details

To set the default author and licenses, set options devtools.desc.author and devtools.desc.license. I use options(devtools.desc.author = '"Hadley Wickham <h.wickham@gmail.com> [aut,cre]"', devtools.desc.author

|--|

Description

Package development tools for R.

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 R CMD install by install.
- devtools.desc.author: a string providing a default Authors@R string to be used in new 'DESCRIPTION's. Should be a R code, and look like "Hadley Wickham <h.wickham@gmail.com> [aut, cre]". See 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'

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dev_example

Run a examples for an in-development function.

Description

Run a examples for an in-development function.

Usage

```
dev_example(topic)
```

Arguments

topic

Name or topic (or name of Rd) file to run examples for

See Also

Other example functions: run_examples

Examples

```
## Not run:
# Runs installed example:
library("ggplot2")
example("ggplot")

# Runs develoment example:
load_all("ggplot2")
dev_example("ggplot")

## End(Not run)
```

dev_help

Read the in-development help for a package loaded with devtools.

Description

Note that this only renders a single documentation file, so that links to other files within the package won't work.

Usage

```
dev_help(topic, stage = "render", type = getOption("help_type"))
```

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Arguments

topic name of help to search for.

stage at which stage ("build", "install", or "render") should \Sexpr macros be exe-

cuted? This is only important if you're using \Sexpr macro's in your Rd files.

type of html to produce: "html" or "text". Defaults to your default documentation

type.

Examples

```
## Not run:
library("ggplot2")
help("ggplot") # loads installed documentation for ggplot
load_all("ggplot2")
dev_help("ggplot") # loads development documentation for ggplot
## End(Not run)
```

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.

```
## Not run:
dev_mode()
dev_mode()
## End(Not run)
```

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document

Use roxygen to document a package.

Description

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

Usage

```
document(pkg = ".", clean = NULL, roclets = NULL, reload = TRUE)
```

Arguments

pkg package description, can be path or package name. See as package for more

information

clean, reload Deprecated.

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 DESCRIP-TION field. If none are specified, defaults to c("collate", "namespace", "rd").

See Also

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

dr_devtools

Diagnose potential devtools issues

Description

This checks to make sure you're using the latest release of R, the released version of RStudio (if you're using it as your gui), and the latest version of devtools and its dependencies.

Usage

```
dr_devtools()
```

See Also

Other doctors: dr_github

```
## Not run:
dr_devtools()
## End(Not run)
```

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dr_github

Diagnose potential GitHub issues

Description

Diagnose potential GitHub issues

Usage

```
dr_github(path = ".")
```

Arguments

path

Path to repository to check. Defaults to current working directory

See Also

```
Other doctors: dr_devtools
```

Examples

```
dr_github()
```

eval_clean

Evaluate code in a clean R session.

Description

Evaluate code in a clean R session.

Usage

```
eval_clean(expr, quiet = TRUE)
evalq_clean(expr, quiet = TRUE)
```

Arguments

expr an R expression to evaluate. For eval_clean this should already be quoted. For

evalq_clean it will be quoted for you.

quiet if TRUE, the default, only the final result and the any explicitly printed output

will be displayed. If FALSE, all input and output will be displayed, as if you'd

copied and paste the code.

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Value

An invisible TRUE on success.

Examples

```
x <- 1
y <- 2
ls()
evalq_clean(ls())
evalq_clean(ls(), FALSE)
eval_clean(quote({
    z <- 1
    ls()
}))</pre>
```

github_pull

GitHub references

Description

Use as ref parameter to install_github. Allows installing a specific pull request or the latest release.

Usage

```
github_pull(pull)
github_release()
```

Arguments

pull

The pull request to install

See Also

```
install\_github
```

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| has | devel |
|------|-------|
| 1145 | uevei |

Check if you have a development environment installed.

Description

Thanks to the suggestion of Simon Urbanek.

Usage

```
has_devel()
```

Value

TRUE if your development environment is correctly set up, otherwise returns an error.

Examples

```
has_devel()
```

help

Drop-in replacements for help and? functions

Description

The ? and help functions are replacements for functions of the same name in the utils package. They are made available when a package is loaded with load_all.

Usage

```
# help(topic, package = NULL, ...)
# ?e2
# e1?e2
```

Arguments

| topic | A name or character string specifying the help topic. |
|---------|--|
| package | A name or character string specifying the package in which to search for the help topic. If NULL, search all packages. |
| | Additional arguments to pass to help. |
| e1 | First argument to pass along to utils:: `?`. |
| e2 | Second argument to pass along to utils::`?`. |

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Details

The ? function is a replacement for ? from the utils package. It will search for help in devtools-loaded packages first, then in regular packages.

The help function is a replacement for help from the utils package. If package is not specified, it will search for help in devtools-loaded packages first, then in regular packages. If package is specified, then it will search for help in devtools-loaded packages or regular packages, as appropriate.

Examples

```
## Not run:
# This would load devtools and look at the help for load_all, if currently
# in the devtools source directory.
load_all()
?load_all
help("load_all")
## End(Not run)
# To see the help pages for utils::help and utils::\?\:
help("help", "utils")
help("?", "utils")
## Not run:
# Examples demonstrating the multiple ways of supplying arguments
# NB: you can't do pkg <- "ggplot2"; help("ggplot2", pkg)</pre>
help(lm)
help(lm, stats)
help(lm, 'stats')
help('lm')
help('lm', stats)
help('lm', 'stats')
help(package = stats)
help(package = 'stats')
topic <- "lm"
help(topic)
help(topic, stats)
help(topic, 'stats')
## End(Not run)
```

infrastructure

Add useful infrastructure to a package.

Description

Add useful infrastructure to a package.

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Usage

```
use_testthat(pkg = ".")
use_test(name, pkg = ".")
use_rstudio(pkg = ".")
use_vignette(name, pkg = ".")
use_rcpp(pkg = ".")
use_travis(pkg = ".", browse = interactive())
use_coverage(pkg = ".", type = c("codecov", "coveralls"))
use_appveyor(pkg = ".")
use_package_doc(pkg = ".")
use_revdep(pkg = ".")
use_cran_comments(pkg = ".")
use_code_of_conduct(pkg = ".")
use_cran_badge(pkg = ".")
use_mit_license(pkg = ".", copyright_holder = getOption("devtools.name",
  "<Author>")
use_gpl3_license(pkg = ".")
use_dev_version(pkg = ".")
```

Arguments

| pkg | package description, can be path or package name. See as . package for more information. | |
|------------------|---|--|
| name | File name to use for new vignette. Should consist only of numbers, letters, _ and I recommend using lower case. | |
| browse | open a browser window to enable Travis builds for the package automatically. | |
| type | CI tool to use. Currently supports codecov and coverall. | |
| copyright_holder | | |
| | The copyright holder for this package. Defaults to getOption("devtools.name"). | |

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use_testthat

Add testing infrastructure to a package that does not already have it. This will create 'tests/testthat.R', 'tests/testthat/' and add **testthat** to the suggested packages. This is called automatically from test if needed.

use_test

Add a test file, also add testing infrastructure if necessary. This will create 'tests/testthat/test-<name>.R' with a user-specified name for the test. Will fail if the file exists.

use_vignette

Adds needed packages to DESCRIPTION, and creates draft vignette in vignettes/. It adds inst/doc to .gitignore so you don't accidentally check in the built vignettes.

use_rcpp

Creates src/ and adds needed packages to DESCRIPTION.

use_travis

Add basic travis template to a package. Also adds .travis.yml to .Rbuildignore so it isn't included in the built package.

use_coverage

Add test code coverage to basic travis template to a package.

use_appveyor

Add basic AppVeyor template to a package. Also adds appveyor.yml to .Rbuildignore so it isn't included in the built package.

use_package_doc

Adds a roxygen template for package documentation

use_revdep

Add revdep directory and basic check template.

use_cran_comments

Add cran-comments.md template.

use_code_of_conduct

Add a code of conduct to from http://contributor-covenant.org.

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```
use_cran_badge
```

Add a badge to show CRAN status and version number on the README

```
use_mit_license
```

Adds the necessary infrastructure to declare your package as distributed under the MIT license.

```
use_gpl3_license
```

Adds the necessary infrastructure to declare your package as distributed under the GPL v3.

```
use_dev_version
```

This adds ".9000" to the package DESCRIPTION, adds a new heading to NEWS.md (if it exists), and then checks the result into git.

See Also

Other infrastructure: use_build_ignore, use_data_raw, use_data, use_news_md, use_package, use_readme_rmd

inst

Get the installation path of a package

Description

Given the name of a package, this returns a path to the installed copy of the package, which can be passed to other devtools functions.

Usage

```
inst(name)
```

Arguments

name

the name of a package.

Details

It searches for the package in .libPaths(). If multiple dirs are found, it will return the first one.

```
inst("devtools")
inst("grid")
## Not run:
# Can be passed to other devtools functions
unload(inst("ggplot2"))
## End(Not run)
```

install 25

| 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

```
install(pkg = ".", reload = TRUE, quick = FALSE, local = TRUE,
   args = getOption("devtools.install.args"), quiet = FALSE,
   dependencies = NA, upgrade_dependencies = TRUE, build_vignettes = FALSE,
   keep_source = getOption("keep.source.pkgs"), threads = getOption("Ncpus",
   1), force_deps = FALSE, metadata = remote_metadata(as.package(pkg)),
   out_dir = NULL, skip_if_log_exists = FALSE, ...)
```

Arguments

pkg

| | PINS | 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. |
| | local | if FALSE builds 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 suppresses output from this function. |
| | dependencies | logical indicating to also install uninstalled packages which this pkg depends on/links to/suggests. See argument dependencies of install.packages. |
| upgrade_dependencies | | |
| | | If TRUE, the default, will also update any out of date dependencies. |
| 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.source.pkgs". |
| | threads | number of concurrent threads to use for installing dependencies. It defaults to the option "Ncpus" or 1 if unset. |

package description, can be path or package name. See as .package for more

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| force_deps | whether to force installation of dependencies even if their SHA1 reference hasn't changed from the currently installed version. | |
|--------------------|---|--|
| metadata | Named list of metadata entries to be added to the DESCRIPTION after installation. | |
| out_dir | Directory to store installation output in case of failure. | |
| skip_if_log_exists | | |
| | If the out_dir is defined and contains a file named package.out, no installation is attempted. | |
| ••• | additional arguments passed to install.packages when installing dependencies. pkg is installed with R CMD INSTALL. | |

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 local = FALSE 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 with_libpaths.

See Also

```
with_debug to install packages with debugging flags set.
```

Other package installation: install_bioc, install_bitbucket, install_cran, install_github, install_git, install_svn, install_url, install_version, uninstall

Description

This function requires svn to be installed on your system in order to be used.

Usage

```
install_bioc(repo, mirror = getOption("BioC_svn",
   "https://hedgehog.fhcrc.org/bioconductor"), ..., quiet = FALSE)
```

Arguments

| repo | Repository address in the format [username:password@][release/]repo[#revision]. Valid values for the release are 'devel' (the default if none specified), 'release' or numeric release numbers (e.g. '3.3'). |
|--------|--|
| mirror | The bioconductor SVN mirror to use |
| | Other arguments passed on to install |
| quiet | if TRUE suppresses output from this function. |

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Details

It is vectorised so you can install multiple packages with a single command.

See Also

Other package installation: install_bitbucket, install_cran, install_github, install_git, install_svn, install_url, install_version, install, uninstall

Examples

```
## Not run:
install_bioc("SummarizedExperiment")
install_bioc("user@SummarizedExperiment")
install_bioc("user:password@release/SummarizedExperiment")
install_bioc("user:password@3.3/SummarizedExperiment")
install_bioc("user:password@3.3/SummarizedExperiment#117513")
## End(Not run)
```

install_bitbucket

Install a package directly from bitbucket

Description

This function is vectorised so you can install multiple packages in a single command.

Usage

```
install_bitbucket(repo, username, ref = "master", subdir = NULL,
  quiet = FALSE, auth_user = NULL, password = NULL, ...)
```

Arguments

| repo | Repository address in the format username/repo[/subdir][@ref #pull]. Alternatively, you can specify subdir and/or ref using the respective parameters (see below); if both are specified, the values in repo take precedence. | |
|-----------|---|--|
| username | User name. Deprecated: please include username in the repo | |
| ref | Desired git reference; could be a commit, tag, or branch name. Defaults to master. | |
| subdir | subdirectory within repo that contains the R package. | |
| quiet | if TRUE suppresses output from this function. | |
| auth_user | your account username if you're attempting to install a package hosted in a private repository (and your username is different to username) | |
| password | your password | |
| | Other arguments passed on to install. | |

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See Also

Bitbucket API docs: https://confluence.atlassian.com/bitbucket/use-the-bitbucket-cloud-rest-apis-22272 html

Other package installation: install_bioc, install_cran, install_github, install_git, install_svn, install_url, install_version, install, uninstall

Examples

```
## Not run:
install_bitbucket("sulab/mygene.r@default")
install_bitbucket("dannavarro/lsr-package")
## End(Not run)
```

install_cran

Attempts to install a package from CRAN.

Description

This function is vectorised on pkgs so you can install multiple packages in a single command.

Usage

```
install_cran(pkgs, repos = getOption("repos"), type = getOption("pkgType"),
    ..., quiet = FALSE)
```

Arguments

| pkgs | Character vector of packages to install. |
|-------|---|
| repos | A character vector giving repositories to use. |
| type | Type of package to update. If "both", will switch automatically to "binary" to avoid interactive prompts during package installation. |
| | Additional arguments passed to install_packages. |
| quiet | If TRUE, suppress output. |

See Also

```
Other package installation: install_bioc, install_bitbucket, install_github, install_git, install_svn, install_url, install_version, install, uninstall
```

```
## Not run:
install_cran("ggplot2")
install_cran(c("httpuv", "shiny")
## End(Not run)
```

install_deps 29

| install_deps | Install package dependencies if needed. | |
|--------------|---|--|
| | | |

Description

install_deps is used by install_* to make sure you have all the dependencies for a package. install_dev_deps() is useful if you have a source version of the package and want to be able to develop with it: it installs all dependencies of the package, and it also installs roxygen2.

Usage

```
install_deps(pkg = ".", dependencies = NA, threads = getOption("Ncpus",
   1), repos = getOption("repos"), type = getOption("pkgType"), ...,
   upgrade = TRUE, quiet = FALSE, force_deps = FALSE)
install_dev_deps(pkg = ".", ...)
```

Arguments

| pkg | package description, can be path or package name. See as package for more information |
|--------------|---|
| dependencies | logical indicating to also install uninstalled packages which this pkg depends on/links to/suggests. See argument dependencies of install.packages. |
| threads | number of concurrent threads to use for installing dependencies. It defaults to the option "Ncpus" or 1 if unset. |
| repos | A character vector giving repositories to use. |
| type | Type of package to update. If "both", will switch automatically to "binary" to avoid interactive prompts during package installation. |
| | additional arguments passed to install.packages. |
| upgrade | If TRUE, also upgrade any of out date dependencies. |
| quiet | if TRUE suppresses output from this function. |
| force_deps | whether to force installation of dependencies even if their SHA1 reference hasn't changed from the currently installed version. |
| | |

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

install_git

| install_git | Install a package from a git repository |
|-------------|---|
| | |

Description

It is vectorised so you can install multiple packages with a single command. You do not need to have git installed.

Usage

```
install_git(url, subdir = NULL, branch = NULL, credentials = NULL,
  quiet = FALSE, ...)
```

Arguments

| url | Location of package. The url should point to a public or private repository. |
|-------------|---|
| subdir | A sub-directory within a git repository that may contain the package we are interested in installing. |
| branch | Name of branch or tag to use, if not master. |
| credentials | A git2r credentials object passed through to clone. |
| quiet | if TRUE suppresses output from this function. |
| | passed on to install |

See Also

```
Other package installation: install_bioc, install_bitbucket, install_cran, install_github, install_svn, install_url, install_version, install, uninstall
```

```
## Not run:
install_git("git://github.com/hadley/stringr.git")
install_git("git://github.com/hadley/stringr.git", branch = "stringr-0.2")
## End(Not run)
```

install_github 31

| install_github Attempts to install a package alrectly from Github. | install_github | Attempts to install a package directly from GitHub. | |
|--|----------------|---|--|
|--|----------------|---|--|

Description

This function is vectorised on repo so you can install multiple packages in a single command.

Usage

```
install_github(repo, username = NULL, ref = "master", subdir = NULL,
  auth_token = github_pat(quiet), host = "https://api.github.com",
  quiet = FALSE, ...)
```

Arguments

| repo | Repository address in the format username/repo[/subdir][@ref #pull]. Alternatively, you can specify subdir and/or ref using the respective parameters (see below); if both are specified, the values in repo take precedence. |
|------------|---|
| username | User name. Deprecated: please include username in the repo |
| ref | Desired git reference. Could be a commit, tag, or branch name, or a call to github_pull. Defaults to "master". |
| subdir | subdirectory within repo that contains the R package. |
| auth_token | To install from a private repo, generate a personal access token (PAT) in https://github.com/settings/tokens and supply to this argument. This is safer than using a password because you can easily delete a PAT without affecting any others. Defaults to the GITHUB_PAT environment variable. |
| host | GitHub API host to use. Override with your GitHub enterprise hostname, for example, "github.hostname.com/api/v3". |
| quiet | if TRUE suppresses output from this function. |
| | Other arguments passed on to install. |

Details

Attempting to install from a source repository that uses submodules raises a warning. Because the zipped sources provided by GitHub do not include submodules, this may lead to unexpected behaviour or compilation failure in source packages. In this case, cloning the repository manually using install_git with args="--recursive" may yield better results.

See Also

```
github_pull
```

```
Other package installation: install_bioc, install_bitbucket, install_cran, install_git, install_svn, install_url, install_version, install, uninstall
```

32 install_local

Examples

install_local

Install a package from a local file

Description

This function is vectorised so you can install multiple packages in a single command.

Usage

```
install_local(path, subdir = NULL, ..., quiet = FALSE)
```

Arguments

```
path path to local directory, or compressed file (tar, zip, tar.gz tar.bz2, tgz2 or tbz) subdir subdirectory within url bundle that contains the R package.

Other arguments passed on to install.

quiet if TRUE suppresses output from this function.
```

```
## Not run:
dir <- tempfile()
dir.create(dir)
pkg <- download.packages("testthat", dir, type = "source")
install_local(pkg[, 2])
## End(Not run)</pre>
```

install_svn 33

| install_svn | Install a package from a SVN repository |
|-------------|---|
| | |

Description

This function requires svn to be installed on your system in order to be used.

Usage

```
install_svn(url, subdir = NULL, branch = NULL, args = character(0), ...,
  revision = NULL, quiet = FALSE)
```

Arguments

| url | Location of package. The url should point to a public or private repository. |
|----------|--|
| subdir | A sub-directory withing a svn repository that may contain the package we are interested in installing. By default, this points to the 'trunk' directory. |
| branch | Name of branch or tag to use, if not trunk. |
| args | A character vector providing extra arguments to pass on to |
| | Other arguments passed on to install |
| revision | svn revision, if omitted updates to latest |
| quiet | if TRUE suppresses output from this function. |

Details

It is vectorised so you can install multiple packages with a single command.

See Also

```
Other package installation: install_bioc, install_bitbucket, install_cran, install_github, install_git, install_url, install_version, install, uninstall
```

```
## Not run:
install_svn("https://github.com/hadley/stringr")
install_svn("https://github.com/hadley/httr", branch = "oauth")
## End(Not run)
```

install_version

| in | sta | 11 | H | ٠1 |
|----|-----|----|---|----|

Install a package from a url

Description

This function is vectorised so you can install multiple packages in a single command.

Usage

```
install_url(url, subdir = NULL, config = list(), ..., quiet = FALSE)
```

Arguments

| url | location of package on internet. The url should point to a zip file, a tar file or a bzipped/gzipped tar file. |
|--------|--|
| subdir | subdirectory within url bundle that contains the R package. |
| config | $additional\ configuration\ argument\ (e.g.\ proxy,\ authentication)\ passed\ on\ to\ {\tt GET}.$ |
| | Other arguments passed on to install. |
| quiet | if TRUE suppresses output from this function. |
| | |

See Also

Other package installation: install_bioc, install_bitbucket, install_cran, install_github, install_git, install_svn, install_version, install, uninstall

Examples

```
## Not run:
install_url("https://github.com/hadley/stringr/archive/master.zip")
## End(Not run)
```

install_version

Install specified version of a CRAN package.

Description

If you are installing an package that contains compiled code, you will need to have an R development environment installed. You can check if you do by running has_devel.

Usage

```
install_version(package, version = NULL, repos = getOption("repos"),
  type = getOption("pkgType"), ..., quiet = FALSE)
```

lint 35

Arguments

| package | package name |
|---------|---|
| version | If the specified version is NULL or the same as the most recent version of the package, this function simply calls <code>install</code> . Otherwise, it looks at the list of archived source tarballs and tries to install an older version instead. |
| repos | character vector, the base URL(s) of the repositories to use, e.g., the URL of a CRAN mirror such as "https://cloud.r-project.org". For more details on supported URL schemes see url. Can be NULL to install from local files, directories or URLs: this will be inferred |
| | by extension from pkgs if of length one. |
| type | character, indicating the type of package to download and install. Will be "source" except on Windows and some macOS builds: see the section on 'Binary packages' for those. |
| | Other arguments passed on to install. |
| quiet | logical: if true, reduce the amount of output. |
| | |

Author(s)

Jeremy Stephens

See Also

Other package installation: install_bioc, install_bitbucket, install_cran, install_github, install_git, install_svn, install_url, install, uninstall

lint

Lint all source files in a package.

Description

The default lintings correspond to the style guide at 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

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

Arguments

| pkg | package description, can be path or package name. 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 lint_package |

36 load_all

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 clear_cache.

See Also

```
lint_package, 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(pkg = ".", reset = TRUE, recompile = FALSE, export_all = TRUE,
quiet = FALSE, create = NA)
```

Arguments

| pkg | package description, can be path or package name. See as . package for more information. |
|------------|---|
| 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 | force a recompile of DLL from source code, if present. This is equivalent to running 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. |
| quiet | if TRUE suppresses output from this function. |
| create | only relevant if a package structure does not exist yet: if TRUE, create a package structure; if NA, ask the user (in interactive mode only) |

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.

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• 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.

Namespaces

The namespace environment <namespace:pkgname>, is a child of the imports environment, which has the name attribute imports:pkgname. It is in turn is 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 laded 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

```
## 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)
```

38 load_dll

load_code

Load R code.

Description

Load all R code in the R directory. The first time the code is loaded, .onLoad will be run if it exists.

Usage

```
load_code(pkg = ".")
```

Arguments

pkg

package description, can be path or package name. See as package for more information

load_data

Load data.

Description

Loads all .RData files in the data subdirectory.

Usage

```
load_data(pkg = ".")
```

Arguments

pkg

package description, can be path or package name. See as .package for more information

load_dll

Load a compiled DLL

Description

Load a compiled DLL

Usage

```
load_dll(pkg = ".")
```

Arguments

pkg

package description, can be path or package name. See as .package for more information

missing_s3 39

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

package description, can be path or package name. See as .package for more information

package_deps

Find all dependencies of a CRAN or dev package.

Description

Find all the dependencies of a package and determine whether they are ahead or behind CRAN. A print() method identifies mismatches (if any) between local and CRAN versions of each dependent package; an update() method installs outdated or missing packages from CRAN.

Usage

```
package_deps(pkg, dependencies = NA, repos = getOption("repos"),
   type = getOption("pkgType"))

dev_package_deps(pkg = ".", dependencies = NA, repos = getOption("repos"),
   type = getOption("pkgType"), bioconductor = TRUE)

## S3 method for class 'package_deps'
update(object, ..., quiet = FALSE, upgrade = TRUE)
```

Arguments

pkg

A character vector of package names. If missing, defaults to the name of the package in the current directory.

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).

40 package_file

repos A character vector giving repositories to use.

type Type of package to update. If "both", will switch automatically to "binary" to

avoid interactive prompts during package installation.

bioconductor Install Bioconductor dependencies if the package has a BiocViews field in the

DESCRIPTION.

object A package_deps object.

... Additional arguments passed to install_packages.

quiet If TRUE, suppress output.

upgrade If TRUE, also upgrade any of out date dependencies.

Value

A data. frame with columns:

package The dependent package's name, installed The currently installed version, available The version available on CRAN,

An integer denoting whether the locally installed version of the package is newer (1), the same (0) or older (-1) to

Examples

```
## Not run:
package_deps("devtools")
# Use update to update any out-of-date dependencies
update(package_deps("devtools"))
## End(Not run)
```

package_file Find file in a package.

Description

It always starts by finding by walking up the path until it finds the root directory, i.e. a directory containing DESCRIPTION. If it cannot find the root directory, or it can't find the specified path, it will throw an error.

Usage

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

Arguments

... Components of the path.

path Place to start search for package directory.

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Examples

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

path

Get/set the PATH variable.

Description

Get/set the PATH variable.

Usage

```
get_path()
set_path(path)
add_path(path, after = Inf)
```

Arguments

path character vector of paths

after for add_path, the place on the PATH where the new paths should be added

Value

set_path invisibly returns the old path.

See Also

```
with_path to temporarily set the path for a block of code
Other path: on_path
```

Examples

```
path <- get_path()
length(path)
old <- add_path(".")
length(get_path())
set_path(old)
length(get_path())</pre>
```

42 release

Run R CMD xxx from within R

Description

Run R CMD xxx from within R

Usage

```
RCMD(cmd, options, path = tempdir(), env_vars = character(), ...)
```

Arguments

cmd one of the R tools available from the R CMD interface.

options a character vector of options to pass to the command

path the directory to run the command in.

env_vars environment variables to set before running the command.

... additional arguments passed to system_check

Value

TRUE if the command succeeds, throws an error if the command fails.

release

Release package to CRAN.

Description

Run automated and manual tests, then ftp to CRAN.

Usage

```
release(pkg = ".", check = TRUE, args = NULL, spelling = "en_US")
```

Arguments

| pkg | package description, can be path or package name. 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. |
| spelling | language or dictionary file to spell check documentation. See spell_check. Set to NULL to skip spell checking. |

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Details

The package release process will:

- · Confirm that the package passes R CMD check
- Ask if you've checked your code on win-builder
- · Confirm that news is up-to-date
- · Confirm that DESCRIPTION is ok
- · Ask if you've checked packages that depend on your package
- · Build the package
- Submit the package to CRAN, using comments in "cran-comments.md"

You can also 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.

Guarantee

If a devtools bug causes one of the CRAN maintainers to treat you impolitely, I will personally send you a handwritten apology note. Please forward me the email and your address, and I'll get a card in the mail.

reload

Unload and reload package.

Description

This attempts to unload and reload a 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 package description, can be path or package name. See as package for more

information

quiet if TRUE suppresses output from this function.

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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(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 ap-

pear in returned vector. This is used in revdep_check to avoid packages with

installation problems or extremely long check times.

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

revdep_check() to run R CMD check on all reverse dependencies.

Examples

```
## Not run:
revdep("ggplot2")
revdep("ggplot2", ignore = c("xkcd", "zoo"))
## End(Not run)
```

revdep_check_save_summary

Run R CMD check on all downstream dependencies.

Description

Use revdep_check() to run check_cran() on all downstream dependencies. Summarises the results with revdep_check_summary() and see problems with revdep_check_print_problems().

Usage

```
revdep_check_save_summary(pkg = ".")

revdep_check_print_problems(pkg = ".")

revdep_check(pkg = ".", recursive = FALSE, ignore = NULL,
    dependencies = c("Depends", "Imports", "Suggests", "LinkingTo"),
    skip = character(), libpath = getOption("devtools.revdep.libpath"),
    srcpath = libpath, bioconductor = FALSE, type = getOption("pkgType"),
    threads = getOption("Ncpus", 1), env_vars = NULL, check_dir = NULL,
    install_dir = NULL, quiet_check = TRUE)

revdep_check_resume(pkg = ".", ...)

revdep_check_reset(pkg = ".")
```

Arguments

pkg Path to package. Defaults to current directory.
recursive If TRUE look for full set of recursive dependencies.

ignore A character vector of package names to ignore. These packages will not ap-

pear in returned vector. This is used in revdep_check to avoid packages with

installation problems or extremely long check times.

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

skip A character vector of package names to exclude from the checks. libpath

Path to library to store dependencies packages - if you you're doing this a lot it's

a good idea to pick a directory and stick with it so you don't have to download

all the packages every time.

srcpath Path to directory to store source versions of dependent packages - again, this

saves a lot of time because you don't need to redownload the packages every

time you run the package.

bioconductor If TRUE also look for dependencies amongst bioconductor packages.

binary Package type to test (source, mac.binary etc). Defaults to the same type type

as install.packages().

threads Number of concurrent threads to use for checking. It defaults to the option

"Ncpus" or 1 if unset.

env_vars Environment variables set during R CMD check

A temporary directory to hold the results of the package checks. This should not check_dir

exist as after the revdep checks complete successfully this directory is blown

away.

install_dir Directory to store check and installation results.

quiet_check If TRUE, suppresses individual R CMD check output and only prints summaries.

Set to FALSE for debugging.

Optionally, override original value of arguments to revdep_check. Use with . . .

care.

Details

Revdep checks are resumable - this is very helpful if somethings goes wrong (like you run out of power or you lose your internet connection) in the middle of a check. You can resume a partially completed check with revdep_check_resume(), or blow away the cached result so you can start afresh with revdep_check_reset().

Value

An invisible list of results. But you'll probably want to look at the check results on disk, which are saved in check_dir. Summaries of all ERRORs and WARNINGs will be stored in check_dir/00check-summary.txt.

Check process

- 1. Install pkg (in special library, see below).
- 2. Find all CRAN packages that depend on pkg.
- 3. Install those packages, along with their dependencies.
- 4. Run R CMD check on each package.
- 5. Uninstall pkg (so other reverse dependency checks don't use the development version instead of the CRAN version)

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Package library

By default revdep_check uses a temporary library to store any packages that are required by the packages being tested. This ensures that they don't interfere with your default library, but means that if you restart R between checks, you'll need to reinstall all the packages. If you're doing reverse dependency checks frequently, I recommend that you create a directory for these packages and set options(devtools.revdep.libpath).

See Also

revdep_maintainers() to get a list of all revdep maintainers.

Examples

```
## Not run:
# Run R CMD check on all downstream dependencies
revdep_check()
revdep_check_save_summary()
revdep_check_print_problems()
## 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, test = FALSE,
run = TRUE, fresh = FALSE)
```

Arguments

| pkg | package description, can be path or package name. 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 | if TRUE, code in will be commented out |
| test | if TRUE, code in will be commented out. If FALSE, code in will be commented out. |

show_news

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.

See Also

Other example functions: dev_example

session_info

Print session information

Description

This is sessionInfo() re-written from scratch to both exclude data that's rarely useful (e.g., the full collate string or base packages loaded) and include stuff you'd like to know (e.g., where a package was installed from).

Usage

```
session_info(pkgs = NULL, include_base = FALSE)
```

Arguments

pkgs Either a vector of package names or NULL. If NULL, displays all loaded pack-

ages. If a character vector, also, includes all dependencies of the package.

should always match the R version.

Examples

```
session_info()
session_info("devtools")
```

show_news

Show package news

Description

Show package news

Usage

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

source_gist 49

Arguments

pkg package description, can be path or package name. 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.

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")
```

50 source_url

```
#' # You can speficy 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

```
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.

Examples

```
## 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 = "54f1db27e60bb7e0486d785604909b49e8fef9f9")

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

## End(Not run)
```

spell_check 51

|--|--|--|

Description

Runs a spell check on text fields in the package description file and manual pages. Hunspell includes dictionaries for en_US and en_GB by default. Other languages require installation of a custom dictionary, see the <a href="https://hunspell.nuns

Usage

```
spell_check(pkg = ".", ignore = character(), dict = "en_US")
```

Arguments

| pkg | package description, can be path or package name. See as . package for more information |
|--------|---|
| ignore | character vector with words to ignore. See hunspell for more information |
| dict | a dictionary object or language string. See hunspell for more information |

| system.file Replacement version of system.file | system.file |
|--|-------------|
|--|-------------|

Description

This function is meant to intercept calls to system.file, so that it behaves well with packages loaded by devtools. It is made available when a package is loaded with load_all.

Usage

```
# system.file(..., package = "base", lib.loc = NULL, mustWork = FALSE)
```

Arguments

| | character vectors, specifying subdirectory and file(s) within some package. The default, none, returns the root of the package. Wildcards are not supported. |
|----------|--|
| package | a character string with the name of a single package. An error occurs if more than one package name is given. |
| lib.loc | a character vector with path names of R libraries. See 'Details' for the meaning of the default value of NULL. |
| mustWork | logical. If TRUE, an error is given if there are no matching files. |

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Details

When system.file is called from the R console (the global environment), this function detects if the target package was loaded with load_all, and if so, it uses a customized method of searching for the file. This is necessary because the directory structure of a source package is different from the directory structure of an installed package.

When a package is loaded with load_all, this function is also inserted into the package's imports environment, so that calls to system.file from within the package namespace will use this modified version. If this function were not inserted into the imports environment, then the package would end up calling base::system.file instead.

test

Execute all test_that tests in a package.

Description

Tests are assumed to be located in either the inst/tests/ or tests/testthat directory (the latter is recommended). See test_dir for the naming convention of test scripts within one of those directories and test_check for the folder structure conventions.

Usage

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

Arguments

| pkg | package description, can be path or package name. See as package for more information |
|--------|--|
| filter | If not NULL, only tests with file names matching this regular expression will be executed. Matching will take on the file name after it has been stripped of "test-" and ".R". |
| | additional arguments passed to test_dir |

Details

If no testing infrastructure is present (detected by the uses_testthat function), you'll be asked if you want devtools to create it for you (in interactive sessions only). See use_test for more details.

uninstall 53

| uninstall | Uninstall a local development package. |
|-------------|--|
| ullilistall | Oninsiati a tocai aevetopmeni package. |

Description

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

Usage

```
uninstall(pkg = ".", unload = TRUE, quiet = FALSE, ...)
```

Arguments

| pkg | package description, can be path or package name. See as package for more information |
|--------|---|
| unload | if TRUE (the default), will automatically unload the package prior to uninstalling. |
| quiet | if TRUE suppresses output from this function. |
| | additional arguments passed to remove.packages. |

See Also

with_debug to install packages with debugging flags set.

Other package installation: install_bioc, install_bitbucket, install_cran, install_github, install_git, install_svn, install_url, install_version, install

| unload | Unload a package | |
|--------|------------------|--|
|--------|------------------|--|

Description

This function attempts to cleanly unload a package, including unloading its namespace, deleting S4 class definitions and unloading any loaded DLLs. Unfortunately S4 classes are not really designed to be cleanly unloaded, and so we have to manually modify the class dependency graph in order for it to work - this works on the cases for which we have tested but there may be others. Similarly, automated DLL unloading is best tested for simple scenarios (particularly with useDynLib(pkgname) and may fail in other cases. If you do encounter a failure, please file a bug report at http://github.com/hadley/devtools/issues.

Usage

```
unload(pkg = ".")
```

54 update_packages

Arguments

pkg

package description, can be path or package name. See as .package for more information

Examples

```
## Not run:
# Unload package that is in current directory
unload(".")

# Unload package that is in ./ggplot2/
unload("ggplot2/")

# Can use inst() to find the path of an installed package
# This will load and unload the installed ggplot2 package
library(ggplot2)
unload(inst("ggplot2"))

## End(Not run)
```

update_packages

Update packages that are missing or out-of-date.

Description

Works similarly to install.packages() but doesn't install packages that are already installed, and also upgrades out dated dependencies.

Usage

```
update_packages(pkgs = NULL, dependencies = NA,
  repos = getOption("repos"), type = getOption("pkgType"))
```

Arguments

pkgs Character vector of packages to update. IF TRUE all installed packages are up-

dated. If NULL user is prompted to confirm update of all installed packages.

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).

repos A character vector giving repositories to use.

type Type of package to update. If "both", will switch automatically to "binary" to

avoid interactive prompts during package installation.

use_data 55

See Also

package_deps to see which packages are out of date/ missing.

Examples

```
## Not run:
update_packages("ggplot2")
update_packages(c("plyr", "ggplot2"))
## End(Not run)
```

use_data

Use data in a package.

Description

This function makes it easy to save package data in the correct format.

Usage

```
use_data(..., pkg = ".", internal = FALSE, overwrite = FALSE,
  compress = "bzip2")
```

Arguments

Display the compress of existing objects to save.

Unquoted names of existing objects to save.

Package where to store data. Defaults to package in working directory.

If FALSE, saves each object in individual .rda files in the data/ directory. These are available whenever the package is loaded. If TRUE, stores all objects in a single R/sysdata.rda file. These objects are only available within the package.

Overwrite By default, use_data will not overwrite existing files. If you really want to do so, set this to TRUE.

Choose the type of compression used by save. Should be one of "gzip", "bzip2" or "xz".

See Also

Other infrastructure: infrastructure, use_build_ignore, use_data_raw, use_news_md, use_package, use_readme_rmd

56 use_git

Examples

```
## Not run:
x <- 1:10
y <- 1:100

use_data(x, y) # For external use
use_data(x, y, internal = TRUE) # For internal use
## End(Not run)</pre>
```

use_data_raw

Use data-raw to compute package datasets.

Description

Use data-raw to compute package datasets.

Usage

```
use_data_raw(pkg = ".")
```

Arguments

pkg

Package where to create data-raw. Defaults to package in working directory.

See Also

Other infrastructure: infrastructure, use_build_ignore, use_data, use_news_md, use_package, use_readme_rmd

use_git

Initialise a git repository.

Description

Initialise a git repository.

Usage

```
use_git(message = "Initial commit", pkg = ".")
```

Arguments

message Message to use for first commit.

pkg Path to package. See as . package for more information.

use_github 57

See Also

Other git infrastructure: use_git_hook, use_github_links, use_github

Examples

```
## Not run: use_git()
```

use_github

Connect a local repo with GitHub.

Description

If the current repo does not use git, calls use_git automatically. use_github_links is called to populate the URL and BugReports fields of DESCRIPTION.

Usage

```
use_github(auth_token = github_pat(), private = FALSE, pkg = ".",
host = "https://api.github.com", protocol = c("ssh", "https"),
credentials = NULL)
```

Arguments

auth_token Provide a personal access token (PAT) from https://github.com/settings/tokens. Defaults to the GITHUB_PAT environment variable.

private If TRUE, creates a private repository.

pkg Path to package. See as.package for more information.

host GitHub API host to use. Override with the endpoint-root for your GitHub enterprise instance, for example, "https://github.hostname.com/api/v3".

protocol transfer protocol, either "ssh" (the default) or "https"

credentials A cred_ssh_key specifying specific ssh credentials or NULL for default ssh key and ssh-agent behaviour. Default is NULL.

Authentication

A new GitHub repo will be created via the GitHub API, therefore you must provide a GitHub personal access token (PAT) via the argument auth_token, which defaults to the value of the GITHUB_PAT environment variable. Obtain a PAT from https://github.com/settings/tokens. The "repo" scope is required which is one of the default scopes for a new PAT.

The argument protocol reflects how you wish to authenticate with GitHub for this repo in the long run. For either protocol, a remote named "origin" is created, an initial push is made using the specified protocol, and a remote tracking branch is set. The URL of the "origin" remote has the form git@github.com:<USERNAME>/<REPO>.git (protocol = "ssh", the default) or https://github.com/<USERNAME>/<REPO>.git (protocol = "https"). For protocol = "ssh", it is assumed that public and private keys are in the default locations, ~/.ssh/id_rsa.pub and ~/.ssh/id_rsa, respectively, and that ssh-agent is configured to manage any associated passphrase. Alternatively, specify a cred_ssh_key object via the credentials parameter.

58 use_news_md

See Also

Other git infrastructure: use_git_hook, use_github_links, use_git

Examples

```
## Not run:
## to use default ssh protocol
create("testpkg")
use_github(pkg = "testpkg")

## or use https
create("testpkg2")
use_github(pkg = "testpkg2", protocol = "https")

## End(Not run)
```

 ${\tt use_news_md}$

Use NEWS.md

Description

This creates NEWS.md from a template.

Usage

```
use_news_md(pkg = ".")
```

Arguments

pkg

package description, can be path or package name. See as.package for more information

See Also

```
Other infrastructure: infrastructure, use_build_ignore, use_data_raw, use_data, use_package, use_readme_rmd
```

use_package 59

| use_package | Use specified package. |
|-------------|------------------------|
| usc_package | ose specifica package. |

Description

This adds a dependency to DESCRIPTION and offers a little advice about how to best use it.

Usage

```
use_package(package, type = "Imports", pkg = ".")
```

Arguments

package Name of package to depend on.

type Type of dependency: must be one of "Imports", "Depends", "Suggests", "En-

hances", or "LinkingTo" (or unique abbreviation)

pkg package description, can be path or package name. See as package for more

information.

See Also

```
Other infrastructure: infrastructure, use_build_ignore, use_data_raw, use_data, use_news_md, use_readme_rmd
```

Examples

```
## Not run:
use_package("ggplot2")
use_package("dplyr", "suggests")
## End(Not run)
```

use_readme_rmd

Create README files.

Description

Creates skeleton README files with sections for

- a high-level description of the package and its goals
- R code to install from GitHub, if GitHub usage detected
- a basic example

Use Rmd if you want a rich intermingling of code and data. Use md for a basic README. README. Rmd will be automatically added to .Rbuildignore. The resulting README is populated with default YAML frontmatter and R fenced code blocks (md) or chunks (Rmd).

60 wd

Usage

```
use_readme_rmd(pkg = ".")
use_readme_md(pkg = ".")
```

Arguments

pkg package description, can be path or package name. See as package for more

information

See Also

Other infrastructure: infrastructure, use_build_ignore, use_data_raw, use_data, use_news_md, use_package

Examples

```
## Not run:
use_readme_rmd()
use_readme_md()
## End(Not run)
```

wd

Set working directory.

Description

Set working directory.

Usage

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

Arguments

pkg package description, can be path or package name. See as.package for more

information

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

rectory.

with_debug 61

Description

Temporarily set debugging compilation flags.

Usage

```
with_debug(code, CFLAGS = NULL, CXXFLAGS = NULL, FFLAGS = NULL,
   FCFLAGS = NULL, debug = TRUE)
```

Arguments

code to execute.

CFLAGS flags for compiling C code

CXXFLAGS flags for compiling C++ code

FFLAGS flags for compiling Fortran code.

FCFLAGS flags for Fortran 9x code.

debug If TRUE adds -g -00 to all flags (Adding FFLAGS and FCFLAGS

See Also

Other debugging flags: compiler_flags

Examples

```
flags <- names(compiler_flags(TRUE))
with_debug(Sys.getenv(flags))

## Not run:
install("mypkg")
with_debug(install("mypkg"))

## End(Not run)</pre>
```

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