Package 'devtools'

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bash build build_github_devtools build_vignettes build_win check check_doc

clean_dll	
clean_source	9
clean_vignettes	9
compiler_flags	10
compile_dll	10
create	11
create_description	12
devtools	
dev_example	
dev_help	
document	
eval_clean	16
	17
nas_devel	
nelp	
nfrastructure	19
nst	
nstall	
nstall_bitbucket	23
nstall_deps	24
nstall_git	24
nstall_github	25
nstall_gitorious	
nstall_local	
nstall_svn	
nstall_url	
nstall_version	
int	
oad_all	
oad_code	
oad_data	
oad_dll	
missing_s3	
path	
release	35
reload	
revdep	
revdep_check_save_logs	
run_examples	
session_info	
Show_news	
source_gist	
source_gistsource_url	
system.file	
est	
ınload	
unoad	
iou uala	43

bash 3

Index		50
	with_debug	
	wd	47
	use_package	46
	use_data_raw	46

bash

Open bash shell in package directory.

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

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 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-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 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).

build_vignettes 5

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 http://cran.r-project.org/bin/windows/Rtools/.

Value

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

Examples

```
## 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)
```

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 make files (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 = ".")
```

Arguments

pkg

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

See Also

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

6 check

	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)
```

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 the released version of R.
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

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

Description

check automatically builds and checks a source package, using all known best practices. 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: these typically represent serious problems.

check 7

Usage

```
check(pkg = ".", document = TRUE, cleanup = TRUE, cran = TRUE,
  check_version = FALSE, force_suggests = TRUE, args = NULL,
  build_args = NULL, quiet = FALSE, check_dir = tempdir(), ...)
```

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 for-

mal check.

cleanup if TRUE the check directory is removed if the check is successful - this allows

you to inspect the results to figure out what went wrong. If FALSE the check

directory is never removed.

cran if TRUE (the default), check using the same settings as CRAN uses.

check_version if TRUE, check that the new version is greater than the current version on CRAN,

by setting the _R_CHECK_CRAN_INCOMING_ environment variable to TRUE.

force_suggests if FALSE, don't force suggested packages, by setting the _R_CHECK_FORCE_SUGGESTS_

environment variable to FALSE.

args,build_args

An optional character vector of additional command line arguments to be passed

to R CMD check/R CMD build/R CMD INSTALL.

quiet if TRUE suppresses output from this function.
check_dir the directory in which the package is checked

... Additional arguments passed to build

Details

check automatically builds a package before using R CMD check 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.

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).
- Special environment variables set to the same values that CRAN uses when testing packages: cran_env_vars. Unfortunately exactly what CRAN does when checking a package is not publicly documented, but we do our best to simulate as accurately as possible given what we know.

8 clean_dll

See Also

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

check_doc

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_doc(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

Examples

```
## Not run:
check_doc("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

clean_source 9

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.

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

10 compile_dll

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
```

Examples

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

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.

create 11

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)

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

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)

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

12 create_description

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)
```

Arguments

path path to package root directory

extra a named list of extra options to add to 'DESCRIPTION'. Arguments that take a

list

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

devtools 13

devtools

Package development tools for R.

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'

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

14 dev_help

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"))
```

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.

```
## 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 15

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()
## End(Not run)
```

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").

16 eval_clean

See Also

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

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.

Value

An invisible TRUE on success.

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

github_pull 17

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
```

has_devel

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.

```
has_devel()
```

18 help

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, seach all packages.
	Additional arguments to pass to help.
e1	First argument to pass along to utils:: `?`.
e2	Second argument to pass along to utils::`?`.

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.

```
## 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")
```

infrastructure 19

```
## 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.

Usage

```
use_testthat(pkg = ".")
use_rstudio(pkg = ".")
use_vignette(name, pkg = ".")
use_rcpp(pkg = ".")
use_travis(pkg = ".")
use_appveyor(pkg = ".")
use_package_doc(pkg = ".")
use_revdep(pkg = ".")
use_cran_comments(pkg = ".")
```

Arguments

pkg

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

20 infrastructure

name

File name to use for new vignette. Should consist only of numbers, letters, _ and -. I recommend using lower case.

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_rstudio

Does not modify . Rbuildignore as RStudio will do that when opened for the first time.

use_knitr

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_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.

See Also

```
Other infrastructure: add_build_ignore, use_build_ignore; use_data_raw; use_data; use_git_hook; use_package; use_readme_rmd
```

inst 21

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.

Examples

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

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, build_vignettes = FALSE,
   keep_source = getOption("keep.source.pkgs"), threads = getOption("Ncpus",
   1))
```

22 install

Arguments

pkg	package description, can be path or package name. See as package for more information
reload	if TRUE (the default), will automatically reload the package after installing.
quick	if TRUE skips docs, multiple-architectures, demos, and vignettes, to make installation as fast as possible.
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.
build_vignettes	5
	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.

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_bitbucket; install_github; install_gitorious; install_git; install_svn; install_url; install_version

install_bitbucket 23

|--|

Description

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

Usage

```
install_bitbucket(repo, username, ref = "master", subdir = NULL,
  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 is specified, the values in repo take precedence.
username	User name. Deprecated: please include username in the repo
ref	Desired git reference; culd be a commit, tag, or branch name. Defaults to master.
subdir	subdirectory within repo that contains the R package.
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.

See Also

```
Bitbucket API docs: https://confluence.atlassian.com/display/BITBUCKET/Use+the+Bitbucket+REST+APIs

Other package installation: install_github; install_gitorious; install_git; install_svn; install_url; install_version; install
```

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

24 install_git

in	sta	all	deps

Install package dependencies

Description

Install package dependencies

Usage

```
install_deps(pkg = ".", dependencies = NA, threads = getOption("Ncpus",
    1))
```

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.

Examples

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

install_git

Install a package from a git repository

Description

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

Usage

```
install_git(url, subdir = NULL, branch = NULL, args = character(0), ...)
```

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.
args	A character vector providing extra arguments to pass on to
	passed on to install

install_github 25

See Also

Other package installation: install_bitbucket; install_github; install_gitorious; install_svn; install_url; install_version; install

Examples

```
## 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

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(), host = "api.github.com", ...)
```

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 is 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/applications 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".
	Other arguments passed on to install.

See Also

```
github_pull
```

```
Other package installation: install_bitbucket; install_gitorious; install_git; install_svn; install_url; install_version; install
```

26 install_gitorious

Examples

install_gitorious

Attempts to install a package directly from gitorious.

Description

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

Usage

```
install_gitorious(repo, ref = "master", subdir = 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 is specified, the values in repo take precedence.
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.
	Other arguments passed on to install.

See Also

```
Other package installation: install_bitbucket; install_github; install_git; install_svn; install_url; install_version; install
```

install_local 27

Examples

```
## Not run:
install_gitorious("r-mpc-package/r-mpc-package")
## End(Not run)
```

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, ...)
```

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.

Examples

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

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), ...)
```

28 install_url

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	

Details

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

See Also

```
Other package installation: install_bitbucket; install_github; install_gitorious; install_git; install_url; install_version; install
```

Examples

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

install_url

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(), ...)
```

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 GET.
	Other arguments passed on to install.

install_version 29

See Also

Other package installation: install_bitbucket; install_github; install_gitorious; install_git; install_svn; install_version; install

Examples

```
## Not run:
install_url("https://github.com/hadley/stringr/archive/master.zip")
## End(Not run)
                        Install specified version of a CRAN package.
```

Description

install_version

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"), ...)
```

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 install. 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 "http://cran.us.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.
	Possible values are (currently) "source", "mac.binary", "mac.binary.mavericks" and "win.binary": the binary types can be listed and downloaded but not installed on other platforms.
	The default is the appropriate binary type on Windows and on the CRAN binary OS X distributions, otherwise "source". For the platforms where binary packages are the default, an alternative is "both" which means 'try binary if available and current, otherwise try source'. (This will only choose the binary package if its version number is no older than the source version. In interactive use it will ask before attempting to install source packages.)
	Other arguments passed on to install.

load_all

Author(s)

Jeremy Stephens

See Also

Other package installation: install_bitbucket; install_github; install_gitorious; install_git; install_svn; install_url; install

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 = ".", ...)
```

Arguments

pkg package description, can be path or package name. See as.package for more informationadditional arguments passed to lint_package

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)
```

load_all 31

Arguments

pkg	package description, can be path or package name. See as.package for more information. If the DESCRIPTION file does not exist, it is created using create_description.
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.

Details

Currently load_all:

- Loads all data files in data/. See load_data for more details.
- Sources all R files in the R directory, storing results in environment that behaves like a regular package namespace. See below and load_code for more details.
- Compiles any C, C++, or Fortran code in the src/ directory and connects the generated DLL into R. See compile_dll for more details.
- Runs .onAttach(), .onLoad() and .onUnload() functions at the correct times.

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.

32 load_data

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)
```

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 33

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

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

34 path

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

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

release 35

release Release package to CRAN.	release	Release package to CRAN.	
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Description

Run automated and manual tests, then ftp to CRAN.

Usage

```
release(pkg = ".", check = TRUE)
```

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.

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 http://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.

36 revdep

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.

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 recusive 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_logs

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 save logs with revdep_check_save_logs.

Usage

```
revdep_check_save_logs(res, log_dir = "revdep")
revdep_check_save_summary(res, log_dir = "revdep")
revdep_check_summary(res)
```

```
revdep_check(pkg = ".", recursive = FALSE, ignore = NULL,
  dependencies = c("Depends", "Imports", "Suggests", "LinkingTo"),
  libpath = getOption("devtools.revdep.libpath"), srcpath = libpath,
  bioconductor = FALSE, type = getOption("pkgType"),
  threads = getOption("Ncpus", 1), check_dir = tempfile("check_cran"))
```

Arguments

Result of revdep_check res Directory in which to save logs log_dir Path to package. Defaults to current directory. pkg recursive If TRUE look for full set of recusive dependencies. A character vector of package names to ignore. These packages will not apignore pear in returned vector. This is used in revdep_check to avoid packages with installation problems or extremely long check times. A character vector listing the types of dependencies to follow. dependencies 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. type binary Package type to test (source, mac.binary etc). Defaults to the same type as install.packages(). Number of concurrent threads to use for checking. It defaults to the option threads "Ncpus" or 1 if unset.

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

check_dir

- 1. Install pkg (in special library, see below).
- 2. Find all CRAN packges that dependent on pkg.
- 3. Install those packages, along with their dependencies.

Directory to store results.

- 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)

run_examples 39

Package library

By default revdep_check uses 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 option(devtools.libpath).

See Also

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

Examples

```
## Not run:
# Run R CMD check on all downstream dependencies of ggplot2
res <- revdep_check("ggplot2")
revdep_check_summary(res)
revdep_check_save_logs(res)
## End(Not run)</pre>
```

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(include_base = FALSE)
```

Arguments

include_base

Include base packages in summary? By default this is false since base packages should always match the R version.

show_news

Show package news

Description

Show package news

Usage

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

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 41

source	aret	
Soul CC	_giot	

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, ..., sha1 = NULL, quiet = FALSE)
```

Arguments

id	either full url (character), gist ID (numeric or character of numeric). If a gist ID is specified and the entry has multiple files, only the first R file in the gist is sourced.
	other options passed to source
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.

```
# 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")
## Not run:
# Wrong hash will result in error
source_gist(6872663, sha1 = "54f1db27e61")

## End(Not run)
```

42 source_url

source_url

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

Description

Internally, source_url calls getURL in RCurl package and then read the contents by textConnection, which is then sourceed. See ?getURL for the available protocol.

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.

Details

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.

```
## 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)
```

system.file 43

system.file	Replacement version of system.file	
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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.

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)
```

44 unload

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".

Details

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

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 = ".")
```

Arguments

pkg

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

```
## 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)
```

use_data 45

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

	Unquoted names of existing objects to save.
pkg	Package where to store data. Defaults to package in working directory.
internal	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.
compress	Choose the type of compression used by save. Should be one of "gzip", "bzip2" or "xz".

See Also

```
Other infrastructure: add_build_ignore, use_build_ignore; add_rstudio_project, add_test_infrastructure, add_travis, add_travis, add_travis, infrastructure, use_appveyor, use_cran_comments, use_package_doc, use_rcpp, use_revdep, use_rstudio, use_testthat, use_travis, use_vignette; use_data_raw; use_git_hook; use_package; use_readme_rmd
```

```
## 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>
```

46 use_package

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: add_build_ignore, use_build_ignore; add_rstudio_project, add_test_infrastructure, add_travis, add_travis, add_travis, infrastructure, use_appveyor, use_cran_comments, use_package_doc, use_rcpp, use_revdep, use_rstudio, use_testthat, use_travis, use_vignette; use_data; use_git_hook; use_package; use_readme_rmd

use_package

Use specified 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", "Suggests", "Depends", "Sug-

gests", "Enhances", or "LinkingTo" (or unique abbreviation)

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

information.

See Also

Other infrastructure: add_build_ignore, use_build_ignore; add_rstudio_project, add_test_infrastructure, add_travis, add_travis, add_travis, infrastructure, use_appveyor, use_cran_comments, use_package_doc, use_rcpp, use_revdep, use_rstudio, use_testthat, use_travis, use_vignette; use_data_raw; use_data; use_git_hook; use_readme_rmd

wd 47

Examples

```
## Not run:
use_package("ggplot2")
use_package("dplyr", "suggests")
## 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	path within package. Leave empty to change working directory to package directory.

with_debug

Temporarily set debugging compilation flags.

Description

Temporarily set debugging compilation flags.

Usage

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

48 with_something

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

action (for with_envvar only): should new values "replace", "suffix", "prefix"

existing environmental variables with the same name.

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>
```

with_something

Execute code in temporarily altered environment.

Description

• in_dir: working directory

• with_collate: collation order

• with_envvar: environmental variables

• with_libpaths: library paths, replacing current libpaths

• with_lib: library paths, prepending to current libpaths

• with_locale: any locale setting

• with_options: options

• with_path: PATH environment variable

• with_par: graphics parameters

with_something 49

Usage

```
with_envvar(new, code, action = "replace")
with_env(new, code)
with_locale(new, code)
with_collate(new, code)
in_dir(new, code)
with_libpaths(new, code)
with_lib(new, code)
with_options(new, code)
with_par(new, code)
with_path(new, code, add = TRUE)
```

Arguments

new values for setting

code code to execute in that environment

action (for with_envvar only): should new values "replace", "suffix", "prefix"

existing environmental variables with the same name.

add Combine with existing values? Currently for with_path only. If FALSE all

existing paths are ovewritten, which don't you usually want.

Deprecation

with_env will be deprecated in devtools 1.2 and removed in devtools 1.3

```
getwd()
in_dir(tempdir(), getwd())
getwd()

Sys.getenv("HADLEY")
with_envvar(c("HADLEY" = 2), Sys.getenv("HADLEY"))
Sys.getenv("HADLEY")

with_envvar(c("A" = 1),
    with_envvar(c("A" = 2), action = "suffix", Sys.getenv("A"))
)
```

Index

*Topic programming	create_description, 12, 31
build_vignettes, 5	dev_example, 13, 40
load_all, 30	dev_help, 14
load_code, 32	dev_mode, 13, 15
load_data, 32	devtools, 13
<pre>load_dll, 33 run_examples, 39</pre>	devtools, 13 devtools-package (devtools), 13
.libPaths, <i>15</i> , <i>21</i>	document, 15
?, 18	
? (help), 18	eval_clean, 16
: (HEIP), 10	evalq_clean (eval_clean), 16
add_build_ignore, 20, 45, 46	CET 20
add_path (path), 34	GET, 28
add_rstudio_project, 45, 46	get_path (path), 34
<pre>add_rstudio_project (infrastructure), 19</pre>	getURL, <i>42</i> github_pull, 17, <i>25</i> , <i>26</i>
add_test_infrastructure, 44-46	github_release (github_pull), 17
add_test_infrastructure	github_release (github_pull), 17
(infrastructure), 19	has_devel, 17, 29
add_travis, <i>45</i> , <i>46</i>	help, 18, 18
add_travis(infrastructure), 19	
as.package, 3–10, 15, 19, 22, 24, 30–33, 35,	<pre>in_dir (with_something), 48</pre>
36, 39, 40, 44, 46, 47	infrastructure, 19, 45, 46
as.person, 13	inst, 21
hach 2	install, 13, 21, 23–30
bash, 3 browser, 40	install.packages, 22, 24, 38
build, 3, 6, 7, 22	install_bitbucket, 22, 23, 25, 26, 28–30
build_github_devtools, 4	install_deps, 24
build_vignettes, 5	install_git, 22, 23, 24, 25, 26, 28–30 install_github, 5, 17, 22, 23, 25, 25, 26,
build_win, 4, 6	28–30
33232, ., 0	install_gitorious, 22, 23, 25, 26, 28–30
check, 6, 11	install_local, 27
check_cran, 37	install_svn, 22, 23, 25, 26, 27, 29, 30
check_doc, 8	install_url, 22, 23, 25, 26, 28, 28, 30
clean_dll, 8, 11, 31	install_version, 22, 23, 25, 26, 28, 29, 29
clean_source, 9	_ , , , , , , , ,
clean_vignettes, $5, 9$	library, <i>30</i> , <i>31</i> , <i>36</i>
compile_dll, 9, 10, 10, 31	lint, 30 , 30
compiler_flags, 7, 10, 11, 48	lint_package, 30
create, 11	load_all, 18, 30, 43

INDEX 51

load_code, <i>31</i> , 32	use_appveyor, 45, 46
load_data, <i>31</i> , 32	use_appveyor (infrastructure), 19
load_dl1, 33	use_build_ignore, 20, 45, 46
	use_cran_comments, 45, 46
missing_s3, 33	<pre>use_cran_comments(infrastructure), 19</pre>
	use_data, 20, 45, 46
on_path, <i>34</i>	use_data_raw, 20, 45, 46, 46
options, 13	use_git_hook, 20, 45, 46
	use_package, 20, 45, 46, 46
package.skeleton, 11	use_package_doc, 45, 46
path, 34	use_package_doc (infrastructure), 19
n any yang 7	use_rcpp, 45, 46
r_env_vars, 7	use_rcpp (infrastructure), 19
release, 8, 35	use_readme_rmd, 20, 45, 46
reload, 22, 36	use_revdep, 45, 46
revdep, 36	use_revdep (infrastructure), 19
revdep_check, 37, 38	use_rstudio, <i>11</i> , <i>45</i> , <i>46</i>
revdep_check(revdep_check_save_logs),	use_rstudio (infrastructure), 19
37	use_testthat, 45, 46
revdep_check_save_logs, 37	use_testthat (infrastructure), 19
revdep_check_save_summary	use_travis, 45, 46
(revdep_check_save_logs), 37	use_travis (infrastructure), 19
revdep_check_summary	use_vignette, 45, 46
(revdep_check_save_logs), 37	use_vignette (infrastructure), 19
revdep_maintainers, 39	use_vightere (imruser detaile), is
revdep_maintainers (revdep), 36	wd, 47
roxygenize, 15, 16	with_collate(with_something), 48
run_examples, 13, 39	with_debug, 10, 22, 47
2012 15	with_env (with_something), 48
save, 45	with_envvar (with_something), 48
session_info, 40	with_lib (with_something), 48
sessionInfo, 40	with_libpaths, 22
set_path (path), 34	with_libpaths (with_something), 48
setup (create), 11	with_locale (with_something), 48
shim_help (help), 18	with_options (with_something), 48
shim_question (help), 18	with_par (with_something), 48
shim_system.file (system.file), 43	with_path, 34, 49
show_news, 40	with_path (with_something), 48
source, 41, 42	with_something, 48
source_gist, 41	,
source_url, 41, 42	
system.file, 43, 43	
test, 20, 43	
test_check, 43	
test_dir, 43	
textConnection, 42	
unload, 31, 36, 44	