

# Package ‘devtools’

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**Description** Collection of package development tools.

**URL** <https://github.com/hadley/devtools>

**BugReports** <https://github.com/hadley/devtools/issues>

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R Core team [ctb] (Some namespace and vignette code extracted from base  
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---

bash	<i>Open bash shell in package directory.</i>
------	----------------------------------------------

---

### Description

Open bash shell in package directory.

### Usage

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

### Arguments

pkg	package description, can be path or package name. See <a href="#">as.package</a> for more information
-----	-------------------------------------------------------------------------------------------------------

---

build	<i>Build package.</i>
-------	-----------------------

---

### 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

<code>pkg</code>	package description, can be path or package name. See <a href="#">as.package</a> for more information
<code>path</code>	path in which to produce package. If <code>NULL</code> , defaults to the parent directory of the package.
<code>binary</code>	Produce a binary ( <code>--binary</code> ) or source ( <code>--no-manual --no-resave-data</code> ) version of the package.
<code>vignettes, manual</code>	For source packages: if <code>FALSE</code> , don't build PDF vignettes ( <code>--no-build-vignettes</code> ) or manual ( <code>--no-manual</code> ).
<code>args</code>	An optional character vector of additional command line arguments to be passed to R CMD <code>build</code> if <code>binary = FALSE</code> , or R CMD <code>install</code> if <code>binary = TRUE</code> .
<code>quiet</code>	if <code>TRUE</code> 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 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

## 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 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 <a href="#">as.package</a> for more information
dependencies	logical indicating to also install uninstalled packages which this pkg depends on/links to/suggests. See argument dependencies of <a href="#">install.packages</a> .

### 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)
```

**Arguments**

pkg	package description, can be path or package name. See <a href="#">as.package</a> 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 <a href="http://win-builder.r-project.org/">http://win-builder.r-project.org/</a> . 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	<i>Build and check a package, cleaning up automatically on success.</i>
-------	-------------------------------------------------------------------------

---

**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 <a href="#">as.package</a> 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 <a href="#">build()</a> .
manual	If FALSE, don't build and check manual ( <code>--no-manual</code> ).
cran	if TRUE (the default), check using the same settings as CRAN uses.

<code>check_version</code>	Sets <code>_R_CHECK_CRAN_INCOMING_</code> env var. If TRUE, performs a number of checked related to version numbers of packages on CRAN.
<code>force_suggests</code>	Sets <code>_R_CHECK_FORCE_SUGGESTS_</code> . If FALSE (the default), check will proceed even if all suggested packages aren't found.
<code>run_dont_test</code>	Sets <code>--run-donttest</code> so that tests surrounded in <code>\donttest{}</code> are also tested. This is important for CRAN submission.
<code>args</code>	Additional arguments passed to R CMD check
<code>env_vars</code>	Environment variables set during R CMD check
<code>quiet</code>	if TRUE suppresses output from this function.
<code>check_dir</code>	the directory in which the package is checked
<code>cleanup</code>	Deprecated.
<code>path</code>	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.



---

check_failures	<i>Parses R CMD check log file for ERRORS, WARNINGS and NOTES</i>
----------------	-------------------------------------------------------------------

---

**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 <code>check_dir</code> argument in a call to <a href="#">check</a>
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	<i>Check documentation, as R CMD check does.</i>
-----------	--------------------------------------------------

---

**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 <a href="#">as.package</a> for more information
-----	-------------------------------------------------------------------------------------------------------

**Value**

Nothing. This function is called purely for its side effects: if

**Examples**

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

## End(Not run)
```

---

clean_dll	<i>Remove compiled objects from /src/ directory</i>
-----------	-----------------------------------------------------

---

**Description**

Invisibly returns the names of the deleted files.

**Usage**

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

**Arguments**

pkg	package description, can be path or package name. See <a href="#">as.package</a> for more information
-----	-------------------------------------------------------------------------------------------------------

**See Also**

[compile\\_dll](#)

---

clean_source	<i>Sources an R file in a clean environment.</i>
--------------	--------------------------------------------------

---

**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	<i>Clean built vignettes.</i>
-----------------	-------------------------------

---

**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 <a href="#">as.package</a> for more information
-----	-------------------------------------------------------------------------------------------------------

---

compiler_flags	<i>Default compiler flags used by devtools.</i>
----------------	-------------------------------------------------

---

**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 -O0 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	<i>Compile a .dll/.so from source.</i>
-------------	----------------------------------------

---

### 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 <a href="#">as.package</a> 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	<i>Creates a new package, following all devtools package conventions.</i>
--------	---------------------------------------------------------------------------

---

### 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)
```

**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 <a href="#">check</a>
rstudio	Create an RStudio project file? (with <a href="#">use_rstudio</a> )
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)
```

**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.license = '"MIT"')`

---

devtools	<i>Package development tools for R.</i>
----------	-----------------------------------------

---

**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	<i>Run a examples for an in-development function.</i>
-------------	-------------------------------------------------------

---

**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 development example:  
load_all("ggplot2")  
dev_example("ggplot")  
  
## End(Not run)
```

---

dev_help	<i>Read the in-development help for a package loaded with devtools.</i>
----------	-------------------------------------------------------------------------

---

**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 executed? 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 <a href="#">.libPaths</a>
path	directory to library.

**Examples**

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

## End(Not run)
```



---

document	<i>Use roxygen to document a package.</i>
----------	-------------------------------------------

---

### 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

<code>pkg</code>	package description, can be path or package name. See <a href="#">as.package</a> for more information
<code>clean</code> , <code>reload</code>	Deprecated.
<code>roclets</code>	Character vector of roclet names to use with package. This defaults to <code>NULL</code> , which will use the <code>roclets</code> fields in the list provided in the <code>Roxygen DESCRIPTION</code> field. If none are specified, defaults to <code>c("collate", "namespace", "rd")</code> .

### See Also

[roxygenize](#), [browseVignettes\("roxygen2"\)](#)

---

<code>dr_devtools</code>	<i>Diagnose potential devtools issues</i>
--------------------------	-------------------------------------------

---

### 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](#)

### Examples

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

---

dr_github	<i>Diagnose potential GitHub issues</i>
-----------	-----------------------------------------

---

**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	<i>Evaluate code in a clean R session.</i>
------------	--------------------------------------------

---

**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.

**Examples**

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

---

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	<i>Check if you have a development environment installed.</i>
-----------	---------------------------------------------------------------

---

**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	<i>Drop-in replacements for help and ? functions</i>
------	------------------------------------------------------

---

**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 <a href="#">help</a> .
e1	First argument to pass along to <code>utils::`?`</code> .
e2	Second argument to pass along to <code>utils::`?`</code> .

## 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)
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_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 <a href="#">as.package</a> 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 <code>getOption("devtools.name")</code> .

`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- $\langle$ name $\rangle$ .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>.

**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.

**Examples**

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

## End(Not run)
```



---

install	<i>Install a local development package.</i>
---------	---------------------------------------------

---

### 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	package description, can be path or package name. See <a href="#">as.package</a> 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 <a href="#">builds</a> 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 <a href="#">install.packages</a> .
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 srcfiles 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.

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 <a href="#">install.packages</a> 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](#)

---

install_bioc	<i>Install a package from a Bioconductor repository</i>
--------------	---------------------------------------------------------

---

### 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 <a href="#">install</a>
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\\_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	<i>Install a package directly from bitbucket</i>
-------------------	--------------------------------------------------

---

**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 <code>username/repo[/subdir][@ref #pull]</code> . Alternatively, you can specify <code>subdir</code> and/or <code>ref</code> using the respective parameters (see below); if both are specified, the values in <code>repo</code> 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 <a href="#">install</a> .

**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	<i>Attempts to install a package from CRAN.</i>
--------------	-------------------------------------------------

---

**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 <code>install_packages</code> .
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](#)

**Examples**

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

## End(Not run)
```

---

install_deps	<i>Install package dependencies if needed.</i>
--------------	------------------------------------------------

---

### 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 <a href="#">as.package</a> for more information
dependencies	logical indicating to also install uninstalled packages which this pkg depends on/links to/suggests. See argument dependencies of <a href="#">install.packages</a> .
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 <a href="#">install.packages</a> .
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.

### Examples

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

---

install_git	<i>Install a package from a git repository</i>
-------------	------------------------------------------------

---

### 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 <a href="#">clone</a> .
quiet	if TRUE suppresses output from this function.
...	passed on to <a href="#">install</a>

### See Also

Other package installation: [install\\_bioc](#), [install\\_bitbucket](#), [install\\_cran](#), [install\\_github](#), [install\\_svn](#), [install\\_url](#), [install\\_version](#), [install](#), [uninstall](#)

### 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	<i>Attempts to install a package directly from GitHub.</i>
----------------	------------------------------------------------------------

---

### 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 <code>username/repo[/subdir][@ref #pull]</code> . Alternatively, you can specify <code>subdir</code> and/or <code>ref</code> using the respective parameters (see below); if both are specified, the values in <code>repo</code> 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 <a href="#">github_pull</a> . 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 <a href="https://github.com/settings/tokens">https://github.com/settings/tokens</a> 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 <a href="#">install</a> .

### 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](#)

**Examples**

```
## Not run:
install_github("klutometis/roxygen")
install_github("wch/ggplot2")
install_github(c("rstudio/httpuv", "rstudio/shiny"))
install_github(c("hadley/httr@v0.4", "klutometis/roxygen#142",
  "mfrasca/r-logging/pkg"))

# Update devtools to the latest version, on Linux and Mac
# On Windows, this won't work - see ?build_github_devtools
install_github("hadley/devtools")

# To install from a private repo, use auth_token with a token
# from https://github.com/settings/tokens. You only need the
# repo scope. Best practice is to save your PAT in env var called
# GITHUB_PAT.
install_github("hadley/private", auth_token = "abc")

## 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, ..., 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 <a href="#">install</a> .
quiet	if TRUE suppresses output from this function.

**Examples**

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

## End(Not run)
```



---

install_svn	<i>Install a package from a SVN repository</i>
-------------	------------------------------------------------

---

### 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 within 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 <a href="#">install</a>
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](#)

### Examples

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

---

install_url	<i>Install a package from a url</i>
-------------	-------------------------------------

---

**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 bziped/gzipped tar file.
subdir	subdirectory within url bundle that contains the R package.
config	additional configuration argument (e.g. proxy, authentication) passed on to <a href="#">GET</a> .
...	Other arguments passed on to <a href="#">install</a> .
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	<i>Install specified version of a CRAN package.</i>
-----------------	-----------------------------------------------------

---

**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)
```

**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 <a href="#">install</a> . 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 " <a href="https://cloud.r-project.org">https://cloud.r-project.org</a> ". For more details on supported URL schemes see <a href="#">url</a> . 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 <a href="#">install</a> .
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	<i>Lint all source files in a package.</i>
------	--------------------------------------------

---

**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 <a href="#">as.package</a> for more information
cache	store the lint results so repeated lints of the same content use the previous results.
...	additional arguments passed to <a href="#">lint_package</a>

**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	<i>Load complete package.</i>
----------	-------------------------------

---

**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**

<code>pkg</code>	package description, can be path or package name. See <a href="#">as.package</a> for more information.
<code>reset</code>	clear package environment and reset file cache before loading any pieces of the package. This is equivalent to running <a href="#">unload</a> and is the default. Use <code>reset = FALSE</code> may be faster for large code bases, but is a significantly less accurate approximation.
<code>recompile</code>	force a recompile of DLL from source code, if present. This is equivalent to running <a href="#">clean_dll</a> before <code>load_all</code>
<code>export_all</code>	If TRUE (the default), export all objects. If FALSE, export only the objects that are listed as exports in the NAMESPACE file.
<code>quiet</code>	if TRUE suppresses output from this function.
<code>create</code>	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.

- 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 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 loaded package. It presently adds a replacement version of `system.file` which returns different paths from `base::system.file`. This is needed because installed and uninstalled package sources have different directory structures. Note that this is not a perfect replacement for `base::system.file`.

## Examples

```
## 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	<i>Load R code.</i>
-----------	---------------------

---

**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 <a href="#">as.package</a> for more information
-----	-------------------------------------------------------------------------------------------------------

---

---

load_data	<i>Load data.</i>
-----------	-------------------

---

**Description**

Loads all `.RData` files in the data subdirectory.

**Usage**

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

**Arguments**

pkg	package description, can be path or package name. See <a href="#">as.package</a> for more information
-----	-------------------------------------------------------------------------------------------------------

---

---

load_dll	<i>Load a compiled DLL</i>
----------	----------------------------

---

**Description**

Load a compiled DLL

**Usage**

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

**Arguments**

pkg	package description, can be path or package name. See <a href="#">as.package</a> for more information
-----	-------------------------------------------------------------------------------------------------------

---

missing_s3	<i>Find missing s3 exports.</i>
------------	---------------------------------

---

**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 <a href="#">as.package</a> for more information
-----	-------------------------------------------------------------------------------------------------------

---

package_deps	<i>Find all dependencies of a CRAN or dev package.</i>
--------------	--------------------------------------------------------

---

**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).

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

**Examples**

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

## End(Not run)
```

---

package_file	<i>Find file in a package.</i>
--------------	--------------------------------

---

**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.



**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())
```

---

RCMD	<i>Run R CMD xxx from within R</i>
------	------------------------------------

---

**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 <a href="#">system_check</a>

**Value**

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

---

release	<i>Release package to CRAN.</i>
---------	---------------------------------

---

**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 <a href="#">as.package</a> 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 <a href="#">spell_check</a> . Set to NULL to skip spell checking.

## 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	<i>Unload and reload package.</i>
--------	-----------------------------------

---

## 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 <a href="#">as.package</a> 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 recursive dependencies.
ignore	A character vector of package names to ignore. These packages will not appear in returned vector. This is used in <a href="#">revdep_check</a> 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**

<code>pkg</code>	Path to package. Defaults to current directory.
<code>recursive</code>	If TRUE look for full set of recursive dependencies.
<code>ignore</code>	A character vector of package names to ignore. These packages will not appear in returned vector. This is used in <a href="#">revdep_check</a> to avoid packages with installation problems or extremely long check times.
<code>dependencies</code>	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.
type	binary Package type to test (source, mac.binary etc). Defaults to the same type as <code>install.packages()</code> .
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
check_dir	A temporary directory to hold the results of the package checks. This should not 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)

### 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	<i>Run all examples in a package.</i>
--------------	---------------------------------------

---

### 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

<code>pkg</code>	package description, can be path or package name. See <a href="#">as.package</a> for more information
<code>start</code>	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.
<code>show</code>	if TRUE, code in <code>\dontshow{}</code> will be commented out
<code>test</code>	if TRUE, code in <code>\donttest{}</code> will be commented out. If FALSE, code in <code>\testonly{}</code> will be commented out.

run if TRUE, code in `\dontrun{}` will be commented out.

fresh if TRUE, will be run in a fresh R session. This has the advantage that there's no way the examples can depend on anything in the current session, but interactive code (like [browser](#)) won't work.

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

include\_base Include base packages in summary? By default this is false since base packages 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, ...)
```



**Arguments**

pkg	package description, can be path or package name. See <a href="#">as.package</a> 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 <a href="#">source</a>
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 <a href="#">source_url</a> 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")
```

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

## End(Not run)
```

---

source\_url

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

---

## Description

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

## Usage

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

## Arguments

url	url
...	other options passed to <a href="#">source</a>
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	<i>Spell checking</i>
-------------	-----------------------

---

### 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 [hunspell vignette](#) for details.

### Usage

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

### Arguments

pkg	package description, can be path or package name. See <a href="#">as.package</a> for more information
ignore	character vector with words to ignore. See <a href="#">hunspell</a> for more information
dict	a dictionary object or language string. See <a href="#">hunspell</a> for more information

---

system.file	<i>Replacement version of system.file</i>
-------------	-------------------------------------------

---

### 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	<i>Execute all <b>test_that</b> tests in a package.</i>
------	---------------------------------------------------------

---

## 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 <code>as.package</code> 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 <code>test_dir</code>

## 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	<i>Uninstall a local development package.</i>
-----------	-----------------------------------------------

---

**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 <code>as.package</code> 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 <code>remove.packages</code> .

**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	<i>Unload a package</i>
--------	-------------------------

---

**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

**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	<i>Update packages that are missing or out-of-date.</i>
-----------------	---------------------------------------------------------

---

**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 updated. 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 (selecting from "Depends", "Imports", "LinkingTo", "Suggests", or "Enhances"), or a logical vector. TRUE is shorthand for "Depends", "Imports", "LinkingTo" and "Suggests". NA is shorthand for "Depends", "Imports" and "LinkingTo" and is the default. FALSE is shorthand for no dependencies (i.e. just check this package, not its dependencies).
repos	A character vector giving repositories to use.
type	Type of package to update. If "both", will switch automatically to "binary" to avoid interactive prompts during package installation.

**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	<i>Use data in a package.</i>
----------	-------------------------------

---

**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 <a href="#">save</a> . 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](#)

**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)
```

---

use_data_raw	<i>Use data-raw to compute package datasets.</i>
--------------	--------------------------------------------------

---

**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	<i>Initialise a git repository.</i>
---------	-------------------------------------

---

**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.



**See Also**

Other git infrastructure: [use\\_git\\_hook](#), [use\\_github\\_links](#), [use\\_github](#)

**Examples**

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

---

use_github	<i>Connect a local repo with GitHub.</i>
------------	------------------------------------------

---

**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 <a href="https://github.com/settings/tokens">https://github.com/settings/tokens</a> . Defaults to the GITHUB_PAT environment variable.
private	If TRUE, creates a private repository.
pkg	Path to package. See <a href="#">as.package</a> 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 <a href="#">cred_ssh_key</a> 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.

## 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)
```

---

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	<i>Use specified package.</i>
-------------	-------------------------------

---

### 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", "Enhances", or "LinkingTo" (or unique abbreviation)
pkg	package description, can be path or package name. See <a href="#">as.package</a> 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	<i>Create README files.</i>
----------------	-----------------------------

---

### 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).

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

---

with_debug	<i>Temporarily set debugging compilation flags.</i>
------------	-----------------------------------------------------

---

**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 -O0 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)
```

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