# Package 'fs'

April 25, 2024

Title Cross-Platform File System Operations Based on 'libuv'

Version 1.6.4

**Description** A cross-platform interface to file system operations, built on top of the 'libuv' C library.

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URL https://fs.r-lib.org, https://github.com/r-lib/fs

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

**Depends** R (>= 3.6) **Imports** methods

**Suggests** covr, crayon, knitr, pillar (>= 1.0.0), rmarkdown, spelling, testthat (>= 3.0.0), tibble (>= 1.1.0), vctrs (>= 0.3.0), withr

VignetteBuilder knitr

ByteCompile true

Config/Needs/website tidyverse/tidytemplate

Config/testthat/edition 3

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**Encoding** UTF-8 **Language** en-US

RoxygenNote 7.2.3

SystemRequirements GNU make

NeedsCompilation yes

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Repository CRAN

**Date/Publication** 2024-04-25 12:50:02 UTC

2 copy

# R topics documented:

copy	2
create	4
delete	5
$dir\_ls  \dots  \dots  \dots  \dots  \dots  \dots  \dots  \dots  \dots  $	6
dir_tree	8
file_access	9
file_chmod	10
file_chown	11
$file\_info \ \dots $	11
file_move	13
file_show	13
file_temp	14
file_touch	15
fs_bytes	16
fs_path	16
fs_perms	17
$id  \dots $	18
is_absolute_path	19
is_file	19
link_path	20
path	21
path_expand	22
path_file	23
path_filter	24
path_math	25
path_package	27
path_sanitize	27
path_tidy	28
	29
	create delete dir_ls dir_tree file_access file_chmod file_chown file_info file_move file_show file_temp file_touch fs_bytes fs_path fs_perms id is_absolute_path is_file link_path path path_expand path_file path_math path_package path_sanitize

сору

Copy files, directories or links

# Description

file\_copy() copies files.

link\_copy() creates a new link pointing to the same location as the previous link.

dir\_copy() copies the directory recursively at the new location.

сору 3

#### Usage

```
file_copy(path, new_path, overwrite = FALSE)
dir_copy(path, new_path, overwrite = FALSE)
link_copy(path, new_path, overwrite = FALSE)
```

# **Arguments**

path A character vector of one or more paths.

new\_path A character vector of paths to the new locations.

overwrite Overwrite files if they exist. If this is FALSE and the file exists an error will be

thrown.

#### **Details**

The behavior of dir\_copy() differs slightly than that of file.copy() when overwrite = TRUE. The directory will always be copied to new\_path, even if the name differs from the basename of path.

#### Value

The new path (invisibly).

```
file_create("foo")
file_copy("foo", "bar")
try(file_copy("foo", "bar"))
file_copy("foo", "bar", overwrite = TRUE)
file_delete(c("foo", "bar"))
dir_create("foo")
# Create a directory and put a few files in it
files <- file_create(c("foo/bar", "foo/baz"))</pre>
file_exists(files)
# Copy the directory
dir_copy("foo", "foo2")
file_exists(path("foo2", path_file(files)))
# Create a link to the directory
link_create(path_abs("foo"), "loo")
link_path("loo")
link_copy("loo", "loo2")
link_path("loo2")
# Cleanup
dir_delete(c("foo", "foo2"))
```

4 create

```
link_delete(c("loo", "loo2"))
```

create

Create files, directories, or links

# **Description**

The functions file\_create() and dir\_create() ensure that path exists; if it already exists it will be left unchanged. That means that compared to file.create(), file\_create() will not truncate an existing file, and compared to dir.create(), dir\_create() will silently ignore existing directories.

#### Usage

```
file_create(path, ..., mode = "u=rw,go=r")
dir_create(path, ..., mode = "u=rwx,go=rx", recurse = TRUE, recursive)
link_create(path, new_path, symbolic = TRUE)
```

#### **Arguments**

path	A character vector of one or more paths. For link_create(), this is the target.
	Additional arguments passed to path()
mode	If file/directory is created, what mode should it have?
	Links do not have mode; they inherit the mode of the file they link to.
recurse	should intermediate directories be created if they do not exist?
recursive	(Deprecated) If TRUE recurse fully.
new_path	The path where the link should be created.
symbolic	Boolean value determining if the link should be a symbolic (the default) or hard link.

# Value

The path to the created object (invisibly).

```
file_create("foo")
is_file("foo")
# dir_create applied to the same path will fail
try(dir_create("foo"))
dir_create("bar")
```

delete 5

```
is_dir("bar")
# file_create applied to the same path will fail
try(file_create("bar"))
# Cleanup
file_delete("foo")
dir_delete("bar")
```

delete

Delete files, directories, or links

# Description

file\_delete() and link\_delete() delete file and links. Compared to file.remove they always fail if they cannot delete the object rather than changing return value or signalling a warning. If any inputs are directories, they are passed to dir\_delete(), so file\_delete() can therefore be used to delete any filesystem object.

dir\_delete() will first delete the contents of the directory, then remove the directory. Compared to unlink it will always throw an error if the directory cannot be deleted rather than being silent or signalling a warning.

#### Usage

```
file_delete(path)
dir_delete(path)
link_delete(path)
```

#### Arguments

path

A character vector of one or more paths.

#### Value

The deleted paths (invisibly).

```
# create a directory, with some files and a link to it
dir_create("dir")
files <- file_create(path("dir", letters[1:5]))
link <- link_create(path_abs("dir"), "link")

# All files created
dir_exists("dir")
file_exists(files)</pre>
```

6 dir\_ls

```
link_exists("link")
file_exists(link_path("link"))

# Delete a file
file_delete(files[1])
file_exists(files[1])

# Delete the directory (which deletes the files as well)
dir_delete("dir")
file_exists(files)
dir_exists("dir")

# The link still exists, but what it points to does not.
link_exists("link")
dir_exists(link_path("link"))

# Delete the link
link_delete("link")
link_exists("link")
```

dir\_ls

List files

#### **Description**

dir\_ls() is equivalent to the ls command. It returns filenames as a named fs\_path character vector. The names are equivalent to the values, which is useful for passing onto functions like purrr::map\_dfr().

dir\_info() is equivalent to ls -l and a shortcut for file\_info(dir\_ls()).

dir\_map() applies a function fun() to each entry in the path and returns the result in a list.

dir\_walk() calls fun for its side-effect and returns the input path.

# Usage

```
dir_ls(
  path = ".",
  all = FALSE,
  recurse = FALSE,
  type = "any",
  glob = NULL,
  regexp = NULL,
  invert = FALSE,
  fail = TRUE,
    ...,
  recursive
)
```

dir\_ls 7

```
dir_map(
  path = ".",
  fun,
  all = FALSE,
  recurse = FALSE,
  type = "any",
  fail = TRUE
)
dir_walk(
  path = ".",
  fun,
  all = FALSE,
  recurse = FALSE,
  type = "any",
  fail = TRUE
)
dir_info(
  path = ".",
  all = FALSE,
  recurse = FALSE,
  type = "any",
  regexp = NULL,
  glob = NULL,
  fail = TRUE,
)
```

# **Arguments**

A character vector of one or more paths. path all If TRUE hidden files are also returned. If TRUE recurse fully, if a positive number the number of levels to recurse. recurse File type(s) to return, one or more of "any", "file", "directory", "symlink", "FIFO", type "socket", "character\_device" or "block\_device". A wildcard aka globbing pattern (e.g. \*.csv) passed on to grep() to filter paths. glob A regular expression (e.g. [.]csv\$) passed on to grep() to filter paths. regexp invert If TRUE return files which do *not* match fail Should the call fail (the default) or warn if a file cannot be accessed. Additional arguments passed to grep. recursive (Deprecated) If TRUE recurse fully. A function, taking one parameter, the current path entry. fun

8 dir\_tree

#### **Examples**

```
dir_ls(R.home("share"), type = "directory")

# Create a shorter link
link_create(system.file(package = "base"), "base")

dir_ls("base", recurse = TRUE, glob = "*.R")

# If you need the full paths input an absolute path
dir_ls(path_abs("base"))

dir_map("base", identity)

dir_walk("base", str)

dir_info("base")

# Cleanup
link_delete("base")
```

dir\_tree

Print contents of directories in a tree-like format

#### **Description**

Print contents of directories in a tree-like format

#### Usage

```
dir_tree(path = ".", recurse = TRUE, ...)
```

#### **Arguments**

file\_access 9

file\_access

Query for existence and access permissions

# Description

file\_exists(path) is a shortcut for file\_access(x, "exists"); dir\_exists(path) and link\_exists(path) are similar but also check that the path is a directory or link, respectively. (file\_exists(path) returns TRUE if path exists and it is a directory.)

# Usage

```
file_access(path, mode = "exists")
file_exists(path)
dir_exists(path)
link_exists(path)
```

# Arguments

path A character vector of one or more paths.

mode A character vector containing one or more of 'exists', 'read', 'write', 'execute'.

#### **Details**

**Cross-compatibility warning:** There is no executable bit on Windows. Checking a file for mode 'execute' on Windows, e.g. file\_access(x, "execute") will always return TRUE.

#### Value

A logical vector, with names corresponding to the input path.

```
file_access("/")
file_access("/", "read")
file_access("/", "write")
file_exists("WOMBATS")
```

10 file\_chmod

file\_chmod

Change file permissions

# **Description**

Change file permissions

# Usage

```
file_chmod(path, mode)
```

# Arguments

path A character vector of one or more paths.

mode A character representation of the mode, in either hexidecimal or symbolic for-

mat.

#### **Details**

**Cross-compatibility warning:** File permissions differ on Windows from POSIX systems. Windows does not use an executable bit, so attempting to change this will have no effect. Windows also does not have user groups, so only the user permissions (u) are relevant.

```
file_create("foo", mode = "000")
file_chmod("foo", "777")
file_info("foo")$permissions

file_chmod("foo", "u-x")
file_info("foo")$permissions

file_chmod("foo", "a-wrx")
file_info("foo")$permissions

file_chmod("foo", "u+wr")
file_info("foo")$permissions

# It is also vectorized
files <- c("foo", file_create("bar", mode = "000"))
file_chmod(files, "a+rwx")
file_info(files)$permissions

file_chmod(files, c("644", "600"))
file_info(files)$permissions</pre>
```

file\_chown 11

|--|

# Description

Change owner or group of a file

# Usage

```
file_chown(path, user_id = NULL, group_id = NULL)
```

# Arguments

path	A character vector of one or more paths.
user_id	The user id of the new owner, specified as a numeric ID or name. The R process must be privileged to change this.
group_id	The group id of the new owner, specified as a numeric ID or name.

file_info	Query file metadata

# Description

Compared to file.info() the full results of a stat(2) system call are returned and some columns are returned as S3 classes to make manipulation more natural. On systems which do not support all metadata (such as Windows) default values are used.

# Usage

```
file_info(path, fail = TRUE, follow = FALSE)
file_size(path, fail = TRUE)
```

# Arguments

path	A character vector of one or more paths.
fail	Should the call fail (the default) or warn if a file cannot be accessed.
follow	If TRUE, symbolic links will be followed (recursively) and the results will be that of the final file rather than the link.

file\_info

#### Value

A data frame with metadata for each file. Columns returned are as follows.

path The input path, as a fs\_path() character vector.

type The file type, as a factor of file types.

size The file size, as a fs\_bytes() numeric vector.

permissions The file permissions, as a fs\_perms() integer vector.

modification time

The time of last data modification, as a POSIXct datetime.

ruser
The file owner name - as a character vector.
The file group name - as a character vector.
The file device id - as a numeric vector.

hard\_links The number of hard links to the file - as a numeric vector.

special\_device\_id

The special device id of the file - as a numeric vector.

inode The inode of the file - as a numeric vector.

block\_size The optimal block for the file - as a numeric vector.

blocks The number of blocks allocated for the file - as a numeric vector.

flags The user defined flags for the file - as an integer vector.

generation The generation number for the file - as a numeric vector.

access\_time The time of last access - as a POSIXct datetime.

change\_time The time of last file status change - as a POSIXct datetime.

birth\_time The time when the inode was created - as a POSIXct datetime.

#### See Also

dir\_info() to display file information for files in a given directory.

```
write.csv(mtcars, "mtcars.csv")
file_info("mtcars.csv")

# Files in the working directory modified more than 20 days ago
files <- file_info(dir_ls())
files$path[difftime(Sys.time(), files$modification_time, units = "days") > 20]

# Cleanup
file_delete("mtcars.csv")
```

file\_move 13

file\_move

Move or rename files

# Description

Compared to file.rename file\_move() always fails if it is unable to move a file, rather than signaling a Warning and returning an error code.

#### Usage

```
file_move(path, new_path)
```

#### **Arguments**

path A character vector of one or more paths.

new\_path New file path. If new\_path is existing directory, the file will be moved into that

directory; otherwise it will be moved/renamed to the full path. Should either be the same length as path, or a single directory.

#### Value

The new path (invisibly).

# **Examples**

```
file_create("foo")
file_move("foo", "bar")
file_exists(c("foo", "bar"))
file_delete("bar")
```

file\_show

Open files or directories

# Description

Open files or directories

# Usage

```
file_show(path = ".", browser = getOption("browser"))
```

14 file\_temp

#### **Arguments**

path A character vector of one or more paths.

browser a non-empty character string giving the name of the program to be used as the

HTML browser. It should be in the PATH, or a full path specified. Alternatively,

an R function to be called to invoke the browser.

Under Windows NULL is also allowed (and is the default), and implies that the

file association mechanism will be used.

#### Value

The directories that were opened (invisibly).

file\_temp

Create names for temporary files

#### **Description**

file\_temp() returns the name which can be used as a temporary file.

### Usage

```
file_temp(pattern = "file", tmp_dir = tempdir(), ext = "")
file_temp_push(path)
file_temp_pop()
path_temp(...)
```

#### **Arguments**

pattern A character vector with the non-random portion of the name.

tmp\_dir The directory the file will be created in.
ext The file extension of the temporary file.
path A character vector of one or more paths.

... Additional paths appended to the temporary directory by path().

#### **Details**

file\_temp\_push() can be used to supply deterministic entries in the temporary file stack. This can be useful for reproducibility in like example documentation and vignettes.

file\_temp\_pop() can be used to explicitly remove an entry from the internal stack, however generally this is done instead by calling file\_temp().

path\_temp() constructs a path within the session temporary directory.

file\_touch 15

# **Examples**

```
path_temp()
path_temp("does-not-exist")

file_temp()
file_temp(ext = "png")
file_temp("image", ext = "png")

# You can make the temp file paths deterministic file_temp_push(letters)
file_temp()
file_temp()

# Or explicitly remove values
while (!is.null(file_temp_pop())) next
file_temp_pop()
```

file\_touch

Change file access and modification times

# Description

Unlike the touch POSIX utility this does not create the file if it does not exist. Use file\_create() to do this if needed.

#### Usage

```
file_touch(path, access_time = Sys.time(), modification_time = access_time)
```

# Arguments

```
path A character vector of one or more paths.

access_time, modification_time

The times to set, inputs will be coerced to POSIXct objects.
```

```
file_create("foo")
file_touch("foo", "2018-01-01")
file_info("foo")[c("access_time", "modification_time", "change_time", "birth_time")]
```

16 fs\_path

fs\_bytes

Human readable file sizes

#### **Description**

Construct, manipulate and display vectors of file sizes. These are numeric vectors, so you can compare them numerically, but they can also be compared to human readable values such as '10MB'.

### Usage

```
as_fs_bytes(x)
fs_bytes(x)
```

# **Arguments**

Х

A numeric or character vector. Character representations can use shorthand sizes (see examples).

# **Examples**

```
fs_bytes("1")
fs_bytes("1K")
fs_bytes("1Kb")
fs_bytes("1Kib")
fs_bytes("1MB")

fs_bytes("1KB") < "1MB"

sum(fs_bytes(c("1MB", "5MB", "500KB")))</pre>
```

fs\_path

File paths

# **Description**

Tidy file paths, character vectors which are coloured by file type on capable terminals.

Colouring can be customized by setting the LS\_COLORS environment variable, the format is the same as that read by GNU ls / dircolors.

Colouring of file paths can be disabled by setting LS\_COLORS to an empty string e.g. Sys.setenv(LS\_COLORS = "").

# Usage

```
as_fs_path(x)
fs_path(x)
```

fs\_perms 17

#### Arguments

Х

vector to be coerced to a fs\_path object.

#### See Also

https://geoff.greer.fm/lscolors, https://github.com/trapd00r/LS\_COLORS, https://github.com/seebi/dircolors-solarized for some example colour settings.

fs\_perms

Create, modify and view file permissions

#### **Description**

fs\_perms() objects help one create and modify file permissions easily. They support both numeric input, octal and symbolic character representations. Compared to octmode they support symbolic representations and display the mode the same format as 1s on POSIX systems.

#### Usage

```
as_fs_perms(x, ...)
fs_perms(x, ...)
```

#### **Arguments**

Х

An object which is to be coerced to a fs\_perms object. Can be an number or octal character representation, including symbolic representations.

... Additional arguments passed to methods.

#### **Details**

On POSIX systems the permissions are displayed as a 9 character string with three sets of three characters. Each set corresponds to the permissions for the user, the group and other (or default) users.

If the first character of each set is a "r", the file is readable for those users, if a "-", it is not readable.

If the second character of each set is a "w", the file is writable for those users, if a "-", it is not writable.

The third character is more complex, and is the first of the following characters which apply.

- 'S' If the character is part of the owner permissions and the file is not executable or the directory is not searchable by the owner, and the set-user-id bit is set.
- 'S' If the character is part of the group permissions and the file is not executable or the directory is not searchable by the group, and the set-group-id bit is set.
- 'T' If the character is part of the other permissions and the file is not executable or the directory is not searchable by others, and the 'sticky' (S\_ISVTX) bit is set.

18 id

• 's' If the character is part of the owner permissions and the file is executable or the directory searchable by the owner, and the set-user-id bit is set.

- 's' If the character is part of the group permissions and the file is executable or the directory searchable by the group, and the set-group-id bit is set.
- 't' If the character is part of the other permissions and the file is executable or the directory searchable by others, and the "sticky" (S\_ISVTX) bit is set.
- 'x' The file is executable or the directory is searchable.
- '-' If none of the above apply. Most commonly the third character is either 'x' or -.

On Windows the permissions are displayed as a 3 character string where the third character is only – or x.

#### **Examples**

```
# Integer and numeric
fs_perms(420L)
fs_perms(c(511, 420))

# Octal
fs_perms("777")
fs_perms(c("777", "644"))

# Symbolic
fs_perms("a+rwx")
fs_perms(c("a+rwx", "u+rw,go+r"))

# Use the `&` and `|`operators to check for certain permissions
(fs_perms("777") & "u+r") == "u+r"
```

Lookup Users and Groups on a system

# Description

These functions use the GETPWENT(3) and GETGRENT(3) system calls to query users and groups respectively.

#### Usage

```
group_ids()
user_ids()
```

#### Value

They return their results in a data. frame. On windows both functions return an empty data. frame because windows does not have user or group ids.

id

is\_absolute\_path 19

# **Examples**

```
# list first 6 groups
head(group_ids())
# list first 6 users
head(user_ids())
```

is\_absolute\_path

Test if a path is an absolute path

#### **Description**

Test if a path is an absolute path

#### Usage

```
is_absolute_path(path)
```

# Arguments

path

A character vector of one or more paths.

# **Examples**

```
is_absolute_path("/foo")
is_absolute_path("C:\\foo")
is_absolute_path("\\\myserver\\foo\\bar")
is_absolute_path("foo/bar")
```

is\_file

Functions to test for file types

# **Description**

Functions to test for file types

# Usage

```
is_file(path, follow = TRUE)
is_dir(path, follow = TRUE)
is_link(path)
is_file_empty(path, follow = TRUE)
```

20 link\_path

# **Arguments**

path A character vector of one or more paths.

follow If TRUE, symbolic links will be followed (recursively) and the results will be that

of the final file rather than the link.

#### Value

A named logical vector, where the names give the paths. If the given object does not exist, NA is returned.

# See Also

file\_exists(), dir\_exists() and link\_exists() if you want to ensure that the path also exists.

# **Examples**

```
dir_create("d")
file_create("d/file.txt")
dir_create("d/dir")
link_create(path(path_abs("d"), "file.txt"), "d/link")
paths <- dir_ls("d")
is_file(paths)
is_dir(paths)
is_link(paths)
# Cleanup
dir_delete("d")</pre>
```

link\_path

Read the value of a symbolic link

# Description

Read the value of a symbolic link

# Usage

```
link_path(path)
```

# **Arguments**

path

A character vector of one or more paths.

path 21

#### Value

A tidy path to the object the link points to.

#### **Examples**

```
file_create("foo")
link_create(path_abs("foo"), "bar")
link_path("bar")

# Cleanup
file_delete(c("foo", "bar"))
```

path

Construct path to a file or directory

# **Description**

path() constructs a relative path, path\_wd() constructs an absolute path from the current working directory.

#### Usage

```
path(..., ext = "")
path_wd(..., ext = "")
```

### **Arguments**

... character vectors, if any values are NA, the result will also be NA. The paths follow the recycling rules used in the tibble package, namely that only length 1 arguments are recycled.

ext An optional extension to append to the generated path.

# See Also

path\_home(), path\_package() for functions to construct paths relative to the home and package directories respectively.

```
path("foo", "bar", "baz", ext = "zip")
path("foo", letters[1:3], ext = "txt")
```

22 path\_expand

path\_expand

Finding the User Home Directory

#### Description

- path\_expand() performs tilde expansion on a path, replacing instances of ~ or ~user with the user's home directory.
- path\_home() constructs a path within the expanded users home directory, calling it with *no* arguments can be useful to verify what fs considers the home directory.
- path\_expand\_r() and path\_home\_r() are equivalents which always use R's definition of the home directory.

# Usage

```
path_expand(path)
path_expand_r(path)
path_home(...)
path_home_r(...)
```

#### **Arguments**

path A character vector of one or more paths.

... Additional paths appended to the home directory by path().

#### **Details**

path\_expand() differs from base::path.expand() in the interpretation of the home directory of Windows. In particular path\_expand() uses the path set in the USERPROFILE environment variable and, if unset, then uses HOMEDRIVE/HOMEPATH.

In contrast base::path.expand() first checks for R\_USER then HOME, which in the default configuration of R on Windows are both set to the user's document directory, e.g. C:\\Users\\username\\Documents. base::path.expand() also does not support ~otheruser syntax on Windows, whereas path\_expand() does support this syntax on all systems.

This definition makes fs more consistent with the definition of home directory used on Windows in other languages, such as python and rust. This is also more compatible with external tools such as git and ssh, both of which put user-level files in USERPROFILE by default. It also allows you to write portable paths, such as ~/Desktop that points to the Desktop location on Windows, macOS and (most) Linux systems.

Users can set the R\_FS\_HOME environment variable to override the definitions on any platform.

#### See Also

```
R for Windows FAQ - 2.14 for behavior of base::path.expand().
```

path\_file 23

#### **Examples**

```
# Expand a path
path_expand("~/bin")

# You can use `path_home()` without arguments to see what is being used as
# the home diretory.
path_home()
path_home("R")

# This will likely differ from the above on Windows
path_home_r()
```

path\_file

Manipulate file paths

# **Description**

path\_file() returns the filename portion of the path, path\_dir() returns the directory portion. path\_ext() returns the last extension (if any) for a path. path\_ext\_remove() removes the last extension and returns the rest of the path. path\_ext\_set() replaces the extension with a new extension. If there is no existing extension the new extension is appended.

# Usage

```
path_file(path)
path_dir(path)
path_ext(path)
path_ext_remove(path)
path_ext_set(path, ext)
path_ext(path) <- value</pre>
```

#### **Arguments**

path A character vector of one or more paths.

ext, value The new file extension.

# **Details**

Note because these are not full file paths they return regular character vectors, not fs\_path() objects.

24 path\_filter

#### See Also

```
base::basename(), base::dirname()
```

# **Examples**

```
path_file("dir/file.zip")
path_dir("dir/file.zip")
path_ext("dir/file.zip")
path_ext("file.tar.gz")
path_ext_remove("file.tar.gz")
# Only one level of extension is removed
path_ext_set(path_ext_remove("file.tar.gz"), "zip")
```

path\_filter

Filter paths

# **Description**

Filter paths

#### Usage

```
path_filter(path, glob = NULL, regexp = NULL, invert = FALSE, ...)
```

# Arguments

A character vector of one or more paths.

A wildcard aka globbing pattern (e.g. \*.csv) passed on to grep() to filter paths.

A regular expression (e.g. [.]csv\$) passed on to grep() to filter paths.

If TRUE return files which do *not* match

Additional arguments passed to grep.

```
path_filter(c("foo", "boo", "bar"), glob = "*oo")
path_filter(c("foo", "boo", "bar"), glob = "*oo", invert = TRUE)
path_filter(c("foo", "boo", "bar"), regexp = "b.r")
```

path\_math 25

path_math Path computations	path_math	Path computations	
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# Description

All functions apart from path\_real() are purely path computations, so the files in question do not need to exist on the filesystem.

# Usage

```
path_real(path)
path_split(path)
path_join(parts)
path_abs(path, start = ".")
path_norm(path)
path_rel(path, start = ".")
path_common(path)
path_has_parent(path, parent)
```

# **Arguments**

path	A character vector of one or more paths.
parts	A character vector or a list of character vectors, corresponding to split paths.
start	A starting directory to compute the path relative to.
parent	The parent path.

#### Value

The new path(s) in an fs\_path object, which is a character vector that also has class fs\_path. Except path\_split(), which returns a list of character vectors of path components.

#### **Functions**

- path\_real(): returns the canonical path, eliminating any symbolic links and the special references ~, ~user, ., and ..., , i.e. it calls path\_expand() (literally) and path\_norm() (effectively).
- path\_split(): splits paths into parts.
- path\_join(): joins parts together. The inverse of path\_split(). See path() to concatenate vectorized strings into a path.

26 path\_math

- path\_abs(): returns a normalized, absolute version of a path.
- path\_norm(): eliminates . references and rationalizes up-level . . references, so A/./B and A/foo/../B both become A/B, but . ./B is not changed. If one of the paths is a symbolic link, this may change the meaning of the path, so consider using path\_real() instead.
- path\_rel(): computes the path relative to the start path, which can be either an absolute or relative path.
- path\_common(): finds the common parts of two (or more) paths.
- path\_has\_parent(): determine if a path has a given parent.

#### See Also

path\_expand() for expansion of user's home directory.

```
dir_create("a")
file_create("a/b")
link_create(path_abs("a"), "c")
# Realize the path
path_real("c/b")
# Split a path
parts <- path_split("a/b")</pre>
parts
# Join it together
path_join(parts)
# Find the absolute path
path_abs("..")
# Normalize a path
path_norm("a/../b\\c/.")
# Compute a relative path
path_rel("/foo/abc", "/foo/bar/baz")
# Find the common path between multiple paths
path_common(c("/foo/bar/baz", "/foo/bar/abc", "/foo/xyz/123"))
# Cleanup
dir_delete("a")
link_delete("c")
```

path\_package 27

path_package	Construct a path to a location within an installed or development package

#### **Description**

path\_package differs from system.file() in that it always returns an error if the package does not exist. It also returns a different error if the file within the package does not exist.

#### Usage

```
path_package(package, ...)
```

# **Arguments**

package Name of the package to in which to search
... Additional paths appended to the package path by path().

#### **Details**

path\_package() also automatically works with packages loaded with devtools even if the path\_package() call comes from a different package.

# **Examples**

```
path_package("base")
path_package("stats")
path_package("base", "INDEX")
path_package("splines", "help", "AnIndex")
```

path\_sanitize

Sanitize a filename by removing directory paths and invalid characters

# **Description**

path\_sanitize() removes the following:

- · Control characters
- · Reserved characters
- Unix reserved filenames (. and . .)
- Trailing periods and spaces (invalid on Windows)
- Windows reserved filenames (CON, PRN, AUX, NUL, COM1, COM2, COM3, COM4, COM5, COM6, COM7, COM8, COM9, LPT1, LPT2, LPT3, LPT4, LPT5, LPT6, LPT7, LPT8, and LPT9) The resulting string is then truncated to 255 bytes in length

28 path\_tidy

#### **Usage**

```
path_sanitize(filename, replacement = "")
```

#### **Arguments**

filename A character vector to be sanitized.

replacement A character vector used to replace invalid characters.

#### See Also

https://www.npmjs.com/package/sanitize-filename, upon which this function is based.

# **Examples**

```
# potentially unsafe string
str <- "~/.\u0001ssh/authorized_keys"
path_sanitize(str)
path_sanitize("..")</pre>
```

path\_tidy

Tidy paths

# Description

untidy paths are all different, tidy paths are all the same. Tidy paths always use / to delimit directories, never have multiple / or trailing / and have colourised output based on the file type.

#### **Usage**

```
path_tidy(path)
```

# **Arguments**

path

A character vector of one or more paths.

#### Value

An fs\_path object, which is a character vector that also has class fs\_path

# **Index**

as_fs_bytes (fs_bytes), 16 as_fs_path (fs_path), 16 as_fs_perms (fs_perms), 17	<pre>file_show, 13 file_size (file_info), 11 file_temp, 14 file_temp_pop (file_temp), 14</pre>
<pre>base::basename(), 24 base::dirname(), 24 base::path.expand(), 22</pre>	<pre>file_temp_push (file_temp), 14 file_touch, 15</pre>
basepath.expanu(), 22	fs_bytes, 16 fs_bytes(), <i>12</i>
copy, 2	fs_path, 16
create, 4	fs_path(), <i>12</i>
4-1-4- 5	fs_perms, 17
<pre>delete, 5 dir.create(), 4</pre>	fs_perms(), <i>12</i>
dir_copy (copy), 2	grep, 7, 24
dir_create (create), 4	grep(), 7, 8, 24
dir_delete (delete), 5	group_ids (id), 18
dir_exists (file_access), 9	
dir_exists(), 20	id, 18
dir_info(dir_ls),6	is_absolute_path, 19
dir_info(), <i>12</i>	is_dir(is_file), 19
$dir_ls, 6, 8$	is_file, 19
dir_map (dir_ls), 6	<pre>is_file_empty(is_file), 19 is_link(is_file), 19</pre>
dir_tree, 8	15_1111k (15_111e), 19
dir_walk(dir_ls),6	link_copy(copy), 2
file.create(), 4	link_create(create), 4
file.info(), <i>11</i>	link_delete(delete),5
file.remove, 5	<pre>link_exists (file_access), 9</pre>
file.rename, 13	link_exists(), 20
file_access, 9	link_path, 20
file_chmod, 10	octmode, 17
file_chown, 11	octiliode, 17
file_copy(copy), 2	path, 21
file_create (create), 4	path(), 4, 22, 25, 27
file_create(), 15	path_abs(path_math), 25
file_delete (delete), 5	path_common (path_math), 25
file_exists (file_access), 9	path_dir(path_file), 23
file_exists(), 20	path_expand() 26
file_info, 11	path_expand(), 26
file_move, 13	path_expand_r (path_expand), 22

30 INDEX

```
path_ext (path_file), 23
path_ext<- (path_file), 23</pre>
path_ext_remove (path_file), 23
path_ext_set (path_file), 23
path_file, 23
path\_filter, 24
path_has_parent (path_math), 25
path_home (path_expand), 22
path_home(), 21
path_home_r (path_expand), 22
path_join (path_math), 25
path_math, 25
path_norm(path_math), 25
path_package, 27
path_package(), 21
path_real (path_math), 25
path_rel (path_math), 25
path_sanitize, 27
path_split (path_math), 25
path_split(), 25
path_temp(file_temp), 14
path_tidy, 28
path_wd (path), 21
POSIXct, 12, 15
system.file(), 27
unlink, 5
user_ids (id), 18
```