Package ‘fs’

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**copy**  
*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.
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).

Examples

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"))
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"))
link_delete(c("loo", "looz"))

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).

Examples

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

Examples

# 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)
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")
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**

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

- **path**  A character vector of one or more paths.
- **all**  If TRUE hidden files are also returned.
- **recurse**  If TRUE recurse fully, if a positive number the number of levels to recurse.
- **type**  File type(s) to return, one or more of "any", "file", "directory", "symlink", "FIFO", "socket", "character_device" or "block_device".
- **glob**  A wildcard aka globbing pattern (e.g. *.csv) passed on to grep() to filter paths.
- **regexp**  A regular expression (e.g. [...csv]) passed on to grep() to filter paths.
- **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.
- **fun**  A function, taking one parameter, the current path entry.
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

path A path to print the tree from
recurse If TRUE recurse fully, if a positive number the number of levels to recurse.
... Arguments passed on to dir_ls
type File type(s) to return, one or more of "any", "file", "directory", "symlink", "FIFO", "socket", "character_device" or "block_device".
recursive (Deprecated) If TRUE recurse fully.
all If TRUE hidden files are also returned.
fail Should the call fail (the default) or warn if a file cannot be accessed.
glob A wildcard aka globbing pattern (e.g. *.csv) passed on to grep() to filter paths.
regexp A regular expression (e.g. [.].csv$) passed on to grep() to filter paths.
invert If TRUE return files which do not match
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.

Examples

file_access("/")

file_access("/", "read")

file_access("/", "write")

file_exists("WOMBATS")
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 hexadecimal or symbolic format.

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.

Examples

```r
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
```
**file_chown**

*Change owner or group of a file*

**Description**

Change owner or group of a file

**Usage**

```r
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**

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

```r
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.
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.
- **user**: The file owner name - as a character vector.
- **group**: The file group name - as a character vector.
- **device_id**: 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.

Examples

```r
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

Move or rename files

Description

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

Usage

\texttt{file.move(path, new\_path)}

Arguments

- \texttt{path} A character vector of one or more paths.
- \texttt{new\_path} New file path. If \texttt{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 \texttt{path}, or a single directory.

Value

The new path (invisibly).

Examples

\begin{verbatim}
file_create(“foo”)
file_move(“foo”, “bar”)
file_exists(c(“foo”, “bar”))
file_delete(“bar”)
\end{verbatim}

file_show

Open files or directories

Description

Open files or directories

Usage

\texttt{file.show(path = “.”, browser = getOption(“browser”))}
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.
etext 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.
**Examples**

```r
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()
```

**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**

```r
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.

**Examples**

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

- **x**: 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"))
```

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)
```
Arguments

x  vector to be coerced to a fs_path object.

See Also


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 ls on POSIX systems.

Usage

as_fs_perms(x, ...)

fs_perms(x, ...)

Arguments

x  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.
• '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 ' & ' operator to check for certain permissions
(fs_perms("777") & "u+r") == "u+r"

id

<table>
<thead>
<tr>
<th>Lookup Users and Groups on a system</th>
</tr>
</thead>
</table>

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.
is_absolute_path

Examples

# list first 6 groups
head(group_ids())

# list first 6 users
head(user_ids())

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)
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

```r
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")
```

**link_path**  
*Read the value of a symbolic link*

Description

Read the value of a symbolic link

Usage

```r
link_path(path)
```

Arguments

- **path**: A character vector of one or more paths.
Value
   A tidy path to the object the link points to.

Examples

```r
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

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

```r
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.

Examples

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

```r
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

Examples

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

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

```r
path_file(path)
path_dir(path)
path_ext(path)
path_ext_remove(path)
path_ext_set(path, ext)
path_ext(path) <- value
```

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

Arguments

path A character vector of one or more paths.

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

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

invert If TRUE return files which do not match

... Additional arguments passed to grep.

Examples

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")
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.
• 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.

Examples

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")
  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

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_sanitizer

Sanitize a filename by removing directory paths and invalid characters

Description

path_sanitizer() 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
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("..")

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
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