

Package ‘printtree’

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Type Package

Title Print Directory Trees for R Projects and Folders

Version 0.2.2

Description Quickly visualize 'R' project directory structures with automatic project detection and clean tree output.

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URL <https://github.com/PrigasG/printtree>,
<https://prigasg.github.io/printtree/>

BugReports <https://github.com/PrigasG/printtree/issues>

Suggests knitr, rmarkdown, spelling, testthat (>= 3.0.0), withr

VignetteBuilder knitr

Config/testthat/edition 3

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Language en-US

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print_rtree	<i>Print an R Project or Directory Tree</i>
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Description

Prints a directory tree for a given path. Optionally, detects an RStudio project (.Rproj) and can print from a project root.

Usage

```
print_rtree(
  path = NULL,
  ignore = c("renv", ".git", ".Rproj.user", "__pycache__", ".DS_Store", "node_modules",
    ".Rhistory"),
  ignore_type = c("auto", "fixed", "glob", "regex"),
  max_depth = NULL,
  show_hidden = FALSE,
  project = c("auto", "root", "none"),
  search_paths = c(".", "..", "~/Documents", "~/Projects"),
  root_markers = c(".Rproj", "DESCRIPTION"),
  format = c("ascii", "unicode"),
  return_lines = FALSE,
  quiet = FALSE,
  count_footer = TRUE,
  git = FALSE,
  git_legend = TRUE,
  prune = FALSE,
  snapshot = FALSE,
  snapshot_file = "tree.png",
  snapshot_width = 800,
  snapshot_bg = c("white", "black"),
  snapshot_path = "."
)
```

Arguments

path	Character. Directory path, project name, or .Rproj file. If NULL, uses current directory.
ignore	Character vector. Basenames to exclude (e.g., ".git", "renv"). With ignore_type = "auto", entries containing wildcard characters are treated as glob patterns, so values such as "*.log" or "test_*" work.
ignore_type	One of "auto", "fixed", "glob", or "regex". Controls how ignore is matched against basenames.
max_depth	Integer. Maximum depth to traverse. NULL for unlimited.
show_hidden	Logical (TRUE/FALSE). Whether to include hidden files/directories (starting with ".").

project	One of "auto", "root", "none". • "auto": alias of "none"; use path as-is (no upward search) • "root": walk upward from path to find a project root (via root_markers) and use it if found • "none": never attempt root detection; print the tree from path
search_paths	Character vector. Used only when path is not an existing directory (treated as a project name). Paths are searched in order.
root_markers	Character vector. Markers used when project = "root" to detect a root directory. Special value ".Rproj" means "any file ending in .Rproj". Common markers include "DESCRIPTION" (R package root) and "_quarto.yml" (Quarto project root).
format	One of "ascii" or "unicode". "ascii" is portable for all terminals.
return_lines	Logical. If TRUE, invisibly return the printed character vector of lines.
quiet	Logical. If TRUE, suppress console output. Useful with return_lines = TRUE.
count_footer	Logical. If TRUE, append a summary like "3 directories, 12 files".
git	Logical. If TRUE, annotate files and directories with porcelain git status markers when path is inside a Git work tree.
git_legend	Logical. If TRUE and git = TRUE, append a short legend explaining the Git status markers.
prune	Logical. If TRUE, omit directories with no displayable children.
snapshot	Logical. If TRUE, gives a visual snapshot of tree.
snapshot_file	Text. Snapshot PNG name if snapshot is set as TRUE.
snapshot_width	Integer between 1 and 15000. Default 800.
snapshot_bg	Either white or black for snapshot background. If white, tree text appears black and vice.
snapshot_path	Character. If snapshot_path is provided, the file is saved there.

Value

Invisible NULL, or a character vector of printed lines if return_lines = TRUE.

Examples

```
# Create a small example directory tree
demo <- file.path(tempdir(), "printtree-demo")
if (dir.exists(demo)) unlink(demo, recursive = TRUE)
dir.create(demo, recursive = TRUE)
dir.create(file.path(demo, "R"))
file.create(file.path(demo, "R", "hello.R"))
file.create(file.path(demo, "README.md"))

# Print the tree
print_rtree(demo)

# Limit depth
```

```
print_rtree(demo, max_depth = 1)

# Save a PNG snapshot to a temporary file
png_file <- tempfile(fileext = ".png")
print_rtree(demo, snapshot = TRUE, snapshot_file = png_file)
```

write_tree

Write a Directory Tree to a Text or Markdown File

Description

Builds a directory tree with the same options as `print_rtree()` and writes it to a plain text or Markdown file.

Usage

```
write_tree(
  path = NULL,
  file,
  format = c("txt", "md"),
  title = NULL,
  create_dirs = TRUE,
  ...
)
```

Arguments

path	Character. Directory path, project name, or .Rproj file. If NULL, uses current directory.
file	Character. Output file path.
format	One of "txt" or "md".
title	Optional Markdown heading used when format = "md".
create_dirs	Logical. If TRUE, create the output file's parent directory when it does not exist.
...	Additional arguments passed to the underlying tree builder (the same tree options as <code>print_rtree()</code> , such as ignore, max_depth, git, or prune).

Value

Invisibly returns the output file path.

Examples

```
demo <- file.path(tempdir(), "printtree-write-demo")
if (dir.exists(demo)) unlink(demo, recursive = TRUE)
dir.create(demo, recursive = TRUE)
file.create(file.path(demo, "README.md"))

out <- tempfile(fileext = ".md")
write_tree(demo, out, format = "md")
```

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