

# Package ‘seekr’

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**Title** Extract Matching Lines from Matching Files

**Version** 0.1.3

**Description** Provides a simple interface to recursively list files from a directory, filter them using a regular expression, read their contents, and extract lines that match a user-defined pattern. The package returns a dataframe containing the matched lines, their line numbers, file paths, and the corresponding matched substrings. Designed for quick code base exploration, log inspection, or any use case involving pattern-based file and line filtering.

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**Encoding** UTF-8

**RoxygenNote** 7.3.2

**Suggests** testthat (>= 3.0.0), withr

**Config/testthat/edition** 3

**Imports** checkmate, cli, fs, lifecycle, purrr, readr, stringr, tibble, tidyrr

**URL** <https://github.com/smartiing/seekr>,  
<https://smartiing.github.io/seekr/>

**BugReports** <https://github.com/smartiing/seekr/issues>

**NeedsCompilation** no

**Author** Sacha Martingay [aut, cre, cph]

**Maintainer** Sacha Martingay <martingay.sacha@hotmail.com>

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seek

*Extract Matching Lines from Files***Description**

These functions search through one or more text files, extract lines matching a regular expression pattern, and return a tibble containing the results.

- `seek()`: Discovers files inside one or more directories (recursively or not), applies optional file name and text file filtering, and searches lines.
- `seek_in()`: Searches inside a user-provided character vector of files.

**Usage**

```
seek(
  pattern,
  path = ".",
  ...,
  filter = NULL,
  negate = FALSE,
  recurse = FALSE,
  all = FALSE,
  relative_path = TRUE,
  matches = FALSE
)
```

```
seek_in(files, pattern, ..., matches = FALSE)
```

**Arguments**

<code>pattern</code>	A regular expression pattern used to match lines.
<code>path</code>	A character vector of one or more directories where files should be discovered (only for <code>seek()</code> ).
<code>...</code>	Additional arguments passed to <code>readr::read_lines()</code> , such as <code>skip</code> , <code>n_max</code> , or <code>locale</code> .
<code>filter</code>	Optional. A regular expression pattern used to filter file paths before reading. If <code>NULL</code> , all text files are considered.
<code>negate</code>	Logical. If <code>TRUE</code> , files matching the <code>filter</code> pattern are excluded instead of included. Useful to skip files based on name or extension.
<code>recurse</code>	If <code>TRUE</code> recurse fully, if a positive number the number of levels to recurse.
<code>all</code>	If <code>TRUE</code> hidden files are also returned.
<code>relative_path</code>	Logical. If <code>TRUE</code> , file paths are made relative to the <code>path</code> argument. If multiple root paths are provided, <code>relative_path</code> is automatically ignored and absolute paths are kept to avoid ambiguity.
<code>matches</code>	Logical. If <code>TRUE</code> , all matches per line are also returned in a <code>matches</code> list-column.
<code>files</code>	A character vector of files to search (only for <code>seek_in()</code> ).

## Details

### [Experimental]

The overall process involves the following steps:

- **File Selection**
  - `seek()`: Files are discovered using `fs::dir_ls()`, starting from one or more directories.
  - `seek_in()`: Files are directly supplied by the user (no discovery phase).
- **File Filtering**
  - Files located inside `.git/` folders are automatically excluded.
  - Files with known non-text extensions (e.g., `.png`, `.exe`, `.rds`) are excluded.
  - If a file's extension is unknown, a check is performed to detect embedded null bytes (binary indicator).
  - Optionally, an additional regex-based path filter (`filter`) can be applied.
- **Line Reading**
  - Files are read line-by-line using `readr::read_lines()`.
  - Only lines matching the provided regular expression pattern are retained.
  - If a file cannot be read, it is skipped gracefully without failing the process.
- **Data Frame Construction**
  - A tibble is constructed with one row per matched line.

These functions are particularly useful for analyzing source code, configuration files, logs, and other structured text data.

## Value

A tibble with one row per matched line, containing:

- `path`: File path (relative or absolute).
- `line_number`: Line number in the file.
- `match`: The first matched substring.
- `matches`: All matched substrings (if `matches = TRUE`).
- `line`: Full content of the matching line.

## See Also

`fs::dir_ls()`, `readr::read_lines()`, `stringr::str_detect()`

## Examples

```
path = system.file("extdata", package = "seekr")

# Search all function definitions in R files
seek("[^\\s]+(?:=|<-) function\\()", path, filter = "\\R$")

# Search for usage of "TODO" comments in source code in a case insensitive way
seek("(?i)TODO", path, filter = "\\R$")
```

```
# Search for error/warning in log files
seek("(?i)error", path, filter = "\\log$")

# Search for config keys in YAML
seek("database:", path, filter = "\\ya?ml$")

# Looking for "length" in all types of text files
seek("(?i)length", path)

# Search for specific CSV headers using seek_in() and reading only the first line
csv_files <- list.files(path, "\\csv$", full.names = TRUE)
seek_in(csv_files, "(?i)specie", n_max = 1)
```

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