

readdirp

Recursive version of [fs.readdir](#). Exposes a **stream API** and a **promise API**.

Licence

- Renamed name to basesname
 - Removed parentdir and fullparentdir properties
 - Supported node.js versions:
 - 3.x: node 8+
 - 2.x: node 0.6+

Changelog

- 3.5 (Oct 13, 2020) disallows recursive directory-based symlinks. Before, it could have entered infinite loop.
- 3.4 (Mar 19, 2020) adds support for directory-based symlinks.
- 3.3 (Dec 6, 2019) stabilizes RAM consumption and enables perf management with `highWaterMark` option. Fixes race conditions related to `for - await` looping.
- 3.2 (Oct 14, 2019) improves performance by 250% and makes streams implementation more idiomatic.
- 3.1 (Jul 7, 2019) brings `bignint` support to `stat` output on Windows. This is backwards-incompatible for some cases. Be careful. If you use it incorrectly, you'll see "TypeError: Cannot mix BigInt and other types, use explicit conversions".
- 3.0 brings huge performance improvements and stream backpressure support.
- Upgrading 2.x to 3.x:
 - Signature changed from `readdirp(options)` to `readdirp(root, options)`
 - Replaced callback API with promise API.
 - Renamed `entryType` option to `type`
 - Renamed `entryType: 'both'` to `'files_directories'`
 - `EntryInfo`
 - Renamed `stat` to `stats`
 - Emitted only when `alwaysStat: true`
 - `dirent` is emitted instead of `stats` by default with `alwaysStat: false`

API

```
const stream = readdirp(root[, options])
```

— Stream API

- Reads given root recursively and returns a `stream` of [entry infos](#)
- Optionally can be used like `for await (const entry of stream)` with node.js 10+ (`asyncIterator`).
- `on('data', (entry) => {})` [entry info](#) for every file / dir.
- `on('warn', (error) => {})` non-fatal `Error` that prevents a file / dir from being processed. Example: inaccessible to the user.
- `on('error', (error) => {})` fatal `Error` which also ends the stream. Example: illegal options where passed.
- `on('end')` — we are done. Called when all entries were found and no more will be emitted.
- `on('close')` — stream is destroyed via `stream.destroy()`. Could be useful if you want to manually abort even on a non fatal error. At that point the stream is no longer `readable` and no more entries, warning or errors are emitted
- To learn more about streams, consult the very detailed [nodejs streams documentation](#) or the [stream-handbook](#)

```
const entries = await readdirp.promise(root[, options]) — Promise API. Returns a list of entry infos.
```

- First argument is always root, path in which to start reading and recursing into subdirectories.
- fileFilter:** [“*.*”]: filter to include or exclude files. A function that takes an entry info as a parameter and returns true to include or false to exclude the entry.
- function:** a function that takes an entry info as a parameter recursive functions. Setting it to true can double readdir execution time - use entries. Setting it to false, mt imme etc. Cannot be enabled it only when you need file size, mt imme etc.
- Glob string:** a string (e.g., “*.js”) which is matched using gloomatch, so go there for more information. Globstars (“*”) are not supported since specifying a recursive pattern for an already recursive function doesn’t make sense. Negated globs (as explained in the minimatch documentation) are allowed, e.g., !
- Array of glob strings:** either need to be all inclusive or all exclusive (negated) patterns otherwise an error is thrown.
- txt matches everything but text files.**
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- except the “git” and “node_modules”.**
- Directory Filter:** [“! .git”, “[node_modules]”]: filter to include/exclude directories found and to recurse into. Directories that do not pass a filter will not be recursed into.
- depth:** 5: depth at which to stop recursing even if more subdirectories are found

options

First argument is always root, path in which to start reading and recursing into subdirectories.

- type:** ‘files’: determines if data events on the stream should be emitted for ‘files’ (default), ‘directories’, ‘files-directories’, or ‘all’. Setting to ‘all’, will also include entries for other types of file descriptors like character devices, unix sockets and named pipes.
- alwaysStat:** false: always return stats property for every file. Default is false, readdir will return dirent entries. Setting it to true can double readdir execution time - use entries. Setting it to false, mt imme etc. Cannot be enabled on node <10.10.0.
- lastat:** false: include symlink entries in the stream along with files. When true, fs.lastat would be used instead of fs.stat
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- recursive:** true to include everything but text files.
- ignore:** [“*.tmp”, “[node_modules]”]: filter to exclude files. A function that takes an entry info as a parameter and returns true to exclude or false to include the entry.
- filter:** [“*.*”]: filter to include or exclude files. A function that takes an entry info as a parameter and returns true to include or false to exclude the entry.
- options:** {“**allowEmpty**: true, **fs**: fs, **path**: path, **readDirOptions**: {“**encoding**: “utf8”, **followLinks**: false}, **statObject**: statObject}

Entry Info

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