

## @npmcli/installed-package-contents

Get the list of files installed in a package in `node_modules`, including bundled dependencies.

This is useful if you want to remove a package node from the tree *without* removing its child nodes, for example to extract a new version of the dependency into place safely.

It's sort of the reflection of `npm-packlist`, but for listing out the *installed* files rather than the files that *will* be installed. This is of course a much simpler operation, because we don't have to handle ignore files or `package.json` files lists.

### USAGE

```
// programmatic usage
const pkgContents = require('@npmcli/installed-package-contents')

pkgContents({ path: 'node_modules/foo', depth: 1 }).then(files => {
  // files is an array of items that need to be passed to
  // rimraf or moved out of the way to make the folder empty
  // if foo bundled dependencies, those will be included.
  // It will not traverse into child directories, because we set
  // depth:1 in the options.
  // If the folder doesn't exist, this returns an empty array.
})

pkgContents({ path: 'node_modules/foo', depth: Infinity }).then(files => {
  // setting depth:Infinity tells it to keep walking forever
  // until it hits something that isn't a directory, so we'll
  // just get the list of all files, but not their containing
  // directories.
})
```

As a CLI:

```
$ installed-package-contents node_modules/bundle-some -d1
node_modules/.bin/some
node_modules/bundle-some/package.json
node_modules/bundle-some/node_modules/@scope/baz
node_modules/bundle-some/node_modules/.bin/foo
node_modules/bundle-some/node_modules/foo
```

CLI options:

Usage:

```
installed-package-contents <path> [-d<n> --depth=<n>]
```

Lists the files installed for a package specified by `<path>`.

Options:

<code>-d&lt;n&gt; --depth=&lt;n&gt;</code>	Provide a numeric value ("Infinity" is allowed) to specify how deep in the file tree to traverse. Default=1
<code>-h --help</code>	Show this usage information

## OPTIONS

- **depth** Number, default 1. How deep to traverse through folders to get contents. Typically you'd want to set this to either 1 (to get the surface files and folders) or **Infinity** (to get all files), but any other positive number is supported as well. If set to 0 or a negative number, returns the path provided and (if it is a package) its set of linked bins.
- **path** Required. Path to the package in **node\_modules** where traversal should begin.

## RETURN VALUE

A Promise that resolves to an array of fully-resolved files and folders matching the criteria. This includes all bundled dependencies in **node\_modules**, and any linked executables in **node\_modules/.bin** that the package caused to be installed.

An empty or missing package folder will return an empty array. Empty directories *within* package contents are listed, even if the **depth** argument would cause them to be traversed into.

## CAVEAT

If using this module to generate a list of files that should be recursively removed to clear away the package, note that this will leave empty directories behind in certain cases:

- If all child packages are bundled dependencies, then the **node\_modules** folder will remain.
- If all child packages within a given scope were bundled dependencies, then the **node\_modules/@scope** folder will remain.
- If all linked bin scripts were removed, then an empty **node\_modules/.bin** folder will remain.

In the interest of speed and algorithmic complexity, this module does *not* do a subsequent `readdir` to see if it would remove all directory entries, though it would be easier to look at if it returned **node\_modules** or **.bin** in that case rather than the contents. However, if the intent is to pass these arguments to **rimraf**, it hardly makes sense to do *two* `readdir` calls just so that we can have the luxury of having to make a third.

Since the primary use case is to delete a package's contents so that they can be re-filled with a new version of that package, this caveat does not pose a problem. Empty directories are already ignored by both npm and git.