

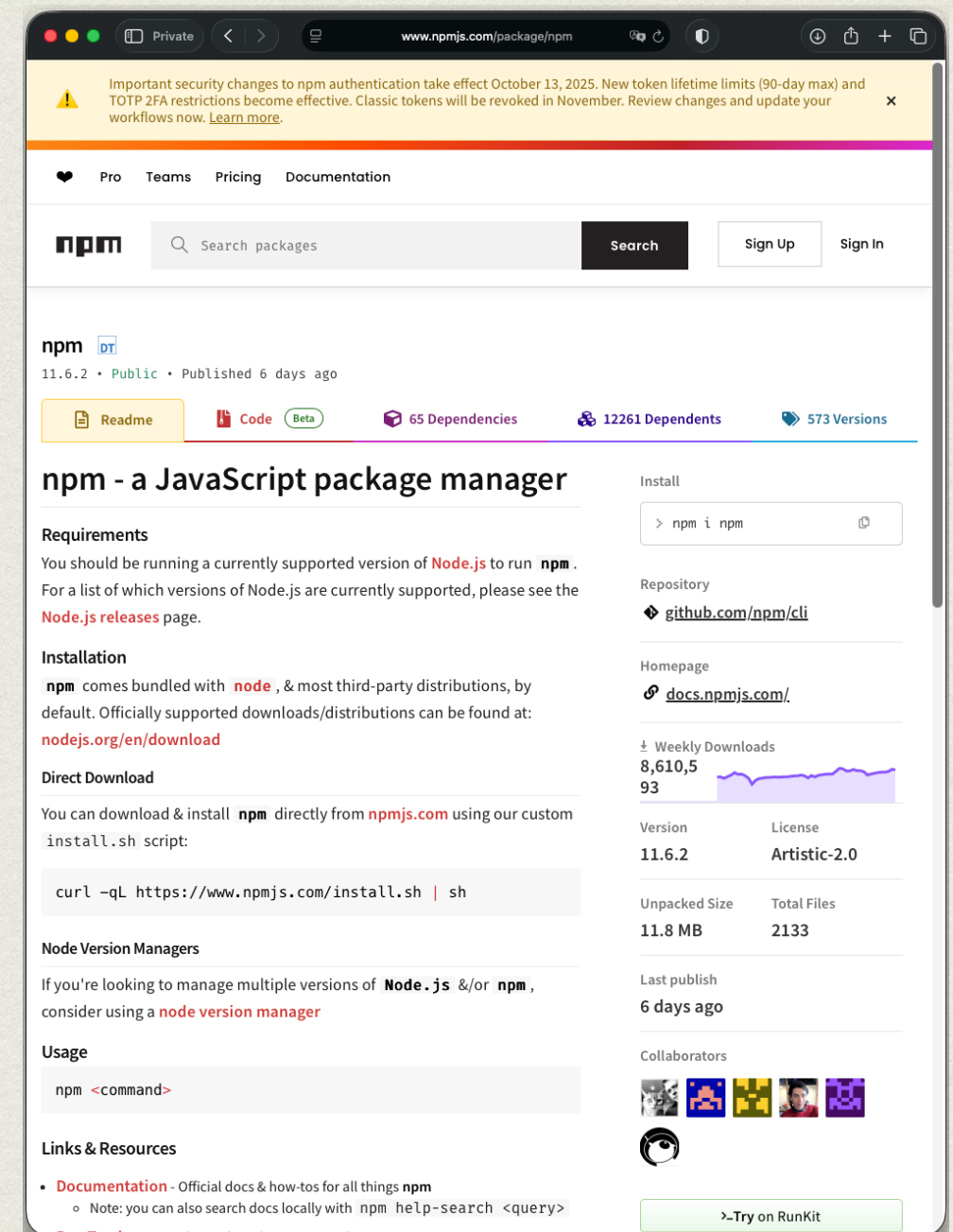
# NPM

*package.json, zależności, SemVer, package-lock.json...*

Dawid Ryłko

# NPM

- Zarządzanie skryptami
- Zarządzanie bibliotekami
- Instalacja
- Aktualizacja
- Publikacja
- <https://www.npmjs.com/>



# package.json

- Konfiguracja projektu
- Metadane
  - Nazwa
  - Wersja
  - Zależności
  - Skrypty
  - ...

/npm/package.json

« Back

```
1 {
2   "version": "11.6.2",
3   "name": "npm",
4   "description": "a package manager for JavaScript",
5   "workspaces": [
6     "docs",
7     "smoke-tests",
8     "mock-globals",
9     "mock-registry",
10    "workspaces/*"
11  ],
12  "files": [
13    "bin/",
14    "lib/",
15    "index.js",
16    "docs/content/",
17    "docs/output/",
18    "man/"
19  ],
20  "keywords": [
21    "install",
22    "modules",
23    "package manager",
24    "package.json"
25  ],
26  "homepage": "https://docs.npmjs.com/",
27  "author": "GitHub Inc.",
28  "repository": {
29    "type": "git",
```

# ZALEŻNOŚCI

- dependencies
- devDependencies
- peerDependencies \*
- bundledDependencies \*
- optionalDependencies \*

Dependents [\(117026\)](#)

@sundawning/autumn-js-0-1-40-patch bizwep-components-example  
@mannansyed/payloadcms hummingbot-dashboard-v2 discogs-example  
@morphera/mds @pr-pilot/ui @open-cloud-initiative/kernux-nextra-theme  
q3labs-posthog-sdk @dev-vortex/nextra-theme-markdoc @scmposs/zeentech-ui  
@kodiak-finance/orderly-eslint-config @gungunsaluja/ecom-design-system  
ai-ux-kit react-chart-kit @tuturuuu/supabase hey-pharmacist-ecommerce  
@jasolar/copilot-ai-wc nextjs-saas-template  
@ankit-paul-keross/ikon-component-lib dspyground  
superads-aws-amplify-adapter-nextjs @kizlo/nextjs mournshire  
@ernes7/clerk-auth @ankit-paul-keross/test-lib create-brightfonet-nextjs  
@tulip-systems/core react-select-lite code-environ payload-sep-gateway-plugin  
@ichaingo/header @ichaingo/providers @ichaingo/image @ichaingo/token  
@vtex/faststore-plugin-live-shopping well-ready @el\_saintt/adapter-nextjs  
@pamfilico/adminfast-ui @choto/stack-app @tedi-design-system/react  
@pamfilico/uicomponents @nuskin/react-mysite-elements @joerawr/pghl-mcp  
@ramonxp-dev/ui @ramonxp-dev/mdx @ramonxp-dev/core  
@bkjain655/base-components @onlywatch/nextjs-route-segments-params  
fresh-start-cli  
and more...

# SemVer

- MAJOR
- MINOR
- PATCH
- ^, ~, >, <, >=, <=, x, \*, ||, -
- <https://semver.org/>

## Current Tags

| Version                 | Downloads (Last 7 Days) | Tag        |
|-------------------------|-------------------------|------------|
| <a href="#">10.9.4</a>  | 1,528,281               | next-10    |
| <a href="#">11.6.2</a>  | 1,033,244               | latest     |
| <a href="#">11.6.2</a>  | 1,033,244               | next-11    |
| <a href="#">8.19.4</a>  | 613,851                 | next-8     |
| <a href="#">9.9.4</a>   | 375,010                 | next-9     |
| <a href="#">6.14.18</a> | 291,127                 | latest-6   |
| <a href="#">6.14.18</a> | 291,127                 | v6.14-next |
| <a href="#">6.14.18</a> | 291,127                 | next-6     |
| <a href="#">7.24.2</a>  | 195,610                 | latest-7   |
| <a href="#">7.24.2</a>  | 195,610                 | next-7     |
| <a href="#">2.15.12</a> | 79,336                  | next-2     |
| <a href="#">2.15.12</a> | 79,336                  | latest-2   |
| <a href="#">5.10.0</a>  | 14,718                  | next-5     |
| <a href="#">5.10.0</a>  | 14,718                  | latest-5   |
| <a href="#">3.10.10</a> | 12,276                  | latest-3   |
| <a href="#">3.10.10</a> | 12,276                  | next-3     |



Wygenerowane przez AI

# DEPENDENCY HELL

- Regularna aktualizacja
- `npm audit`
- NVM
- Brak globalnych instalacji
- **`package-lock.json`**

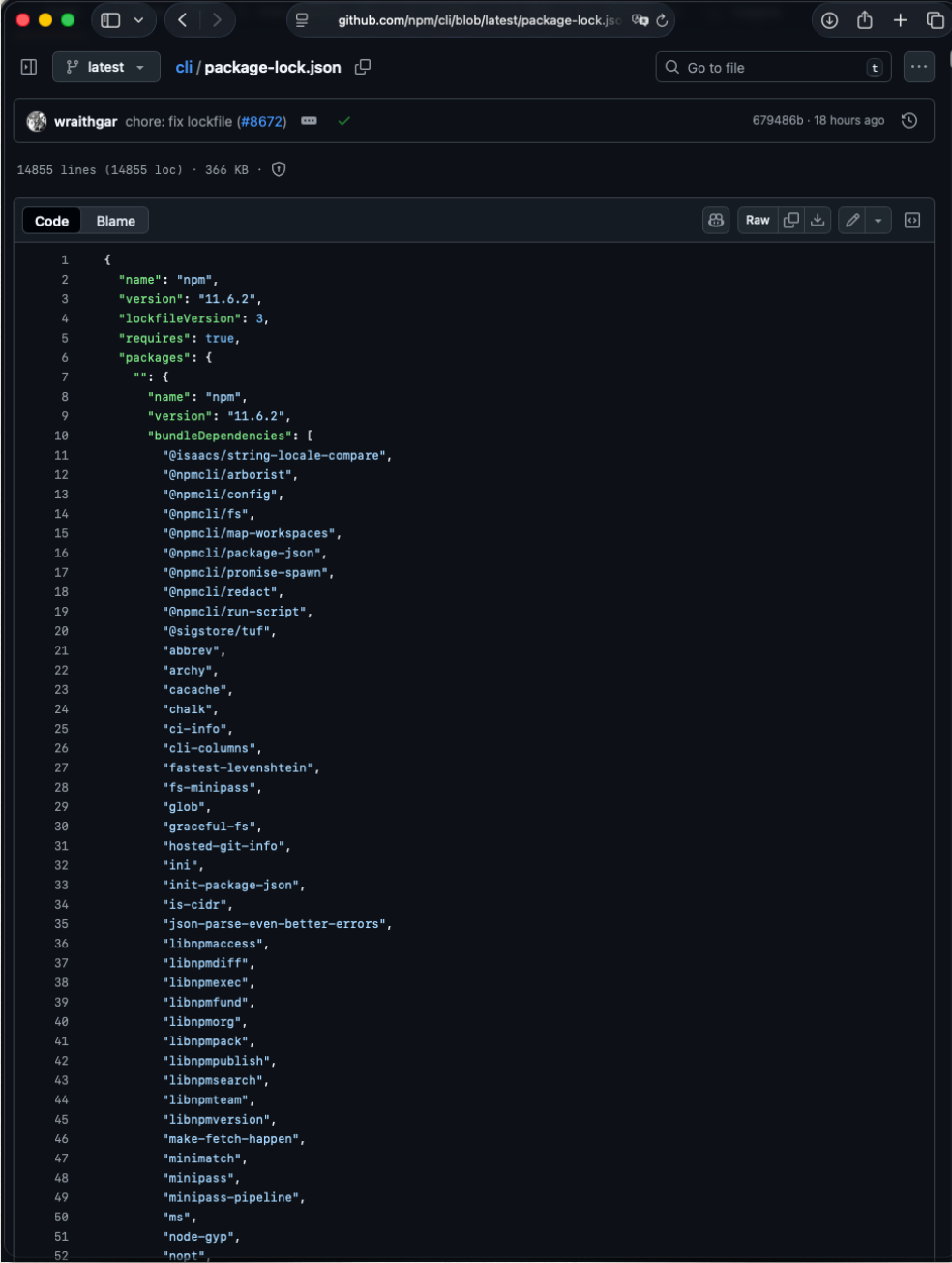


```
node_modules
├── @ampproject
├── @angular
├── @angular-devkit
├── @angular-eslint
├── @antfu
├── @auth0
├── @babel
├── @braintree
├── @chevrotain
├── @colors
├── @cspotcode
├── @discoveryjs
├── @esbuild
├── @eslint
├── @eslint-community
├── @foliojs-fork
├── @humanfs
├── @humanwhocodes
├── @iconify
├── ... (more)
```

Summary: 7510 folders, 79673 files

# package-lock.json

- Tworzy się automatycznie
- Określone wersje
- Identyczne środowisko



```
1 {
2   "name": "npm",
3   "version": "11.6.2",
4   "lockfileVersion": 3,
5   "requires": true,
6   "packages": {
7     "": {
8       "name": "npm",
9       "version": "11.6.2",
10      "bundleDependencies": [
11        "@isaacs/string-locale-compare",
12        "@npmcli/arborist",
13        "@npmcli/config",
14        "@npmcli/fs",
15        "@npmcli/map-workspaces",
16        "@npmcli/package-json",
17        "@npmcli/promise-spawn",
18        "@npmcli/redact",
19        "@npmcli/run-script",
20        "@sigstore/tuf",
21        "abbrev",
22        "archy",
23        "cacache",
24        "chalk",
25        "ci-info",
26        "cli-columns",
27        "fastest-levenshtein",
28        "fs-minipass",
29        "glob",
30        "graceful-fs",
31        "hosted-git-info",
32        "ini",
33        "init-package-json",
34        "is-cidr",
35        "json-parse-even-better-errors",
36        "libnpmaccess",
37        "libnpmdiff",
38        "libnpmexec",
39        "libnpmfund",
40        "libnpmorg",
41        "libnpm-pack",
42        "libnpm-publisher",
43        "libnpmsearch",
44        "libnpmteam",
45        "libnpmversion",
46        "make-fetch-happen",
47        "minimatch",
48        "minipass",
49        "minipass-pipeline",
50        "ms",
51        "node-gyp",
52        "nopt",
```

| Komenda                                     | Źródło prawdy                                                                |
|---------------------------------------------|------------------------------------------------------------------------------|
| npm install                                 | package.json<br>+<br>package-lock.json                                       |
| npm ci                                      | package-lock.json                                                            |
| npm install --frozen-lockfile<br>(od npm 9) | Jeśli<br>package.json i package-lock.json<br>się różnią to nic nie instaluje |

npm install



yarn install



pnpm install



wget in parallel  
all packages from  
source repositories  
to node\_modules



Źródło:  
[facebook.com](https://www.facebook.com)

„Dziwne... u mnie działa.”

- *każdy programista JavaScript*