NPM

atomatyzacja, npx, narzędzia...

Dawid Ryłko

AUTOMATYZACJA

- `npm run <script>`
  - `npm run start`
  - `npm run build`
  - `npm run test`

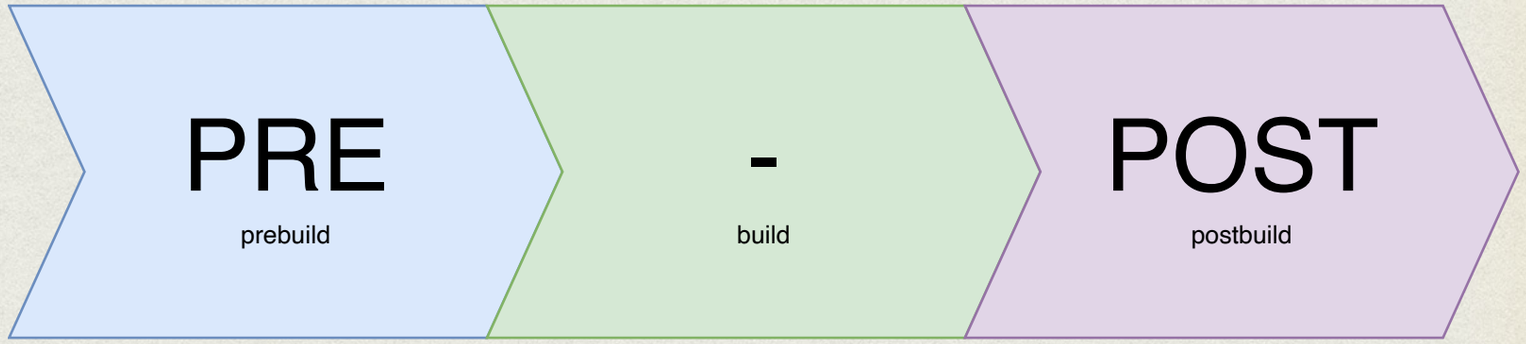
```
▷Debug
"scripts": {
  "develop": "gatsby develop",
  "start": "gatsby develop",
  "build": "gatsby build",
  "serve": "gatsby serve",
  "clean": "gatsby clean",
  "type:check": "tsc --noEmit",
  "format:write": "prettier --write \"**/*.{js,jsx,ts,tsx,json,md}\"",
  "format:check": "prettier --check \"**/*.{js,jsx,ts,tsx,json,md}\"",
  "lint:fix": "eslint . --fix",
  "lint:check": "eslint .",
  "prepare": "husky"
},
```

```
➜  dawidrylko.com git:(master) ✗ npm run build
build        develop      format:write  lint:fix     serve        type:check
clean        format:check lint:check    prepare      start
```

PRE, POST

- `pre`, `post`
  - `prebuild`
  - `postinstall`

```
▷Debug
"scripts": {
  "prebuild": "{{ executes BEFORE the `build` script }}",
  "build": "{{ run command to compress files }}",
  "postbuild": "{{ executes AFTER `build` script }}"
},
```



KOMPOZYCJA

- `&&`
- `&`
- `||`
- `cross-env`

```
"scripts": {
  "dev": "vite dev",
  "build": "vite build",
  "preview": "vite preview",
  "prepare": "svelte-kit sync || echo ''",
  "check": "svelte-kit sync && svelte-check --tsconfig ./tsconfig.json",
  "check:watch": "svelte-kit sync && svelte-check --tsconfig ./tsconfig.json --watch",
  "lint": "eslint ."
},
```

npx

- Uruchamia bez instalacji
- CLI
- Generatory
- Testowanie

```
➜  Projects npx create-next-app
Need to install the following packages:
create-next-app@15.5.5
Ok to proceed? (y) y

✔ What is your project named? … my-app
✔ Would you like to use TypeScript? … No / Yes
✔ Which linter would you like to use? › ESLint
? Would you like to use Tailwind CSS? › No / Yes
```

AKTUALIZACJE

- `npm outdated`
- `npm update`
- `npm version patch|minor|major`

```
→  dawidrylko.com git:(master) ✗ npm outdated
Package     Current  Wanted   Latest  Location                Depended by
katex        0.13.3  0.13.3  0.16.25  node_modules/katex      dawidrylko.com
react        18.3.1  18.3.1   19.2.0  node_modules/react      dawidrylko.com
react-dom    18.3.1  18.3.1   19.2.0  node_modules/react-dom  dawidrylko.com
→  dawidrylko.com git:(master) ✗ npm update
npm error code ERESOLVE
npm error ERESOLVE unable to resolve dependency tree
npm error
npm error While resolving: dawidrylko.com@1.0.1
npm error Found: @mdx-js/react@3.1.1
npm error node_modules/@mdx-js/react
npm error   @mdx-js/react@"^3.1.1" from the root project
npm error
npm error Could not resolve dependency:
npm error peer @mdx-js/react@"^2.0.0" from gatsby-plugin-mdx@5.15.0
npm error node_modules/gatsby-plugin-mdx
npm error   gatsby-plugin-mdx@"^5.15.0" from the root project
npm error
npm error Fix the upstream dependency conflict, or retry
npm error this command with --force or --legacy-peer-deps
npm error to accept an incorrect (and potentially broken) dependency resolution.
npm error
npm error
npm error For a full report see:
npm error /Users/dawid/.npm/_logs/2025-10-15T15_32_31_942Z-eresolve-report.txt
npm error A complete log of this run can be found in: /Users/dawid/.npm/_logs/2025-10-15T15_32_31_942Z-debug-0.log
→  dawidrylko.com git:(master) ✗ npm version patch
v1.0.2
```

BEZPIECZEŃSTWO

- `npm audit`
- `npm audit fix`

```
dawidrylko.com git:(master) ✗ npm audit
npm audit report

parcel/reporter-dev-server  <=2.14.4
everity: moderate
arcel has an Origin Validation Error vulnerability - https://github.com/advisories/GHSA-qm9p-f9j5-w83w
ix available via `npm audit fix --force`
ill install gatsby@3.3.1, which is a breaking change
ode_modules/@parcel/reporter-dev-server
 gatsby-parcel-config  0.5.0-alpha-transformer-json.41 - 0.5.0-next.0 || >=0.6.0-alpha-wp-image-cdn-auth.48
 Depends on vulnerable versions of @parcel/reporter-dev-server
 node_modules/gatsby-parcel-config
   gatsby  >=1.9.0
   Depends on vulnerable versions of babel-plugin-remove-graphql-queries
   Depends on vulnerable versions of cookie
   Depends on vulnerable versions of gatsby-cli
   Depends on vulnerable versions of gatsby-parcel-config
   Depends on vulnerable versions of gatsby-plugin-page-creator
   Depends on vulnerable versions of gatsby-plugin-typescript
   Depends on vulnerable versions of gatsby-plugin-utils
   node_modules/gatsby
     babel-plugin-remove-graphql-queries  3.14.0-alpha-qe-sm.33 - 3.14.0-next.4 || >=4.0.0-alpha-9689ff.4
     Depends on vulnerable versions of gatsby
     node_modules/babel-plugin-remove-graphql-queries
     gatsby-plugin-canonical-urls  3.14.0-alpha-qe-sm.46 - 3.14.0-next.2 || >=4.0.0-alpha-9689ff.5
     Depends on vulnerable versions of gatsby
     node_modules/gatsby-plugin-canonical-urls
     gatsby-plugin-feed  3.14.0-alpha-qe-sm.46 - 3.14.0-next.2 || >=4.0.0-alpha-9689ff.5
     Depends on vulnerable versions of gatsby
     Depends on vulnerable versions of gatsby-plugin-utils
     node_modules/gatsby-plugin-feed
     gatsby-plugin-google-gtag  3.14.0-alpha-qe-sm.46 - 3.14.0-next.2 || >=4.0.0-alpha-9689ff.5
     Depends on vulnerable versions of gatsby
     node_modules/gatsby-plugin-google-gtag
     gatsby-plugin-image  1.14.0-alpha-qe-sm.33 - 1.14.0-next.4 || >=2.0.0-alpha-9689ff.4
     Depends on vulnerable versions of babel-plugin-remove-graphql-queries
     Depends on vulnerable versions of gatsby
     Depends on vulnerable versions of gatsby-plugin-sharp
     Depends on vulnerable versions of gatsby-plugin-utils
     Depends on vulnerable versions of gatsby-source-filesystem
     node_modules/gatsby-plugin-image
     gatsby-plugin-manifest  3.14.0-alpha-qe-sm.46 - 3.14.0-next.2 || >=4.0.0-alpha-9689ff.5
     Depends on vulnerable versions of gatsby
     Depends on vulnerable versions of gatsby-plugin-utils
     node_modules/gatsby-plugin-manifest
     gatsby-plugin-mdx  >=3.0.0-alpha-9689ff.5
     Depends on vulnerable versions of gatsby
     Depends on vulnerable versions of gatsby-plugin-utils
     Depends on vulnerable versions of gatsby-source-filesystem
     node_modules/gatsby-plugin-mdx
     gatsby-plugin-page-creator  3.14.0-alpha-qe-sm.9 - 3.14.0-next.3 || >=4.0.0-alpha-9689ff.5
     Depends on vulnerable versions of gatsby
     Depends on vulnerable versions of gatsby-plugin-utils
     node_modules/gatsby-plugin-page-creator
     gatsby-plugin-sharp  3.14.0-alpha-qe-sm.33 - 3.14.0-next.4 || >=4.0.0-alpha-9689ff.4
     Depends on vulnerable versions of gatsby
     Depends on vulnerable versions of gatsby-plugin-utils
     node_modules/gatsby-plugin-sharp
       gatsby-remark-images  1.6.0-alpha.03b9df85 - 2.0.0-alpha.23 || 2.1.0-alpha.80a21f04 - 2.1.0-alpha.e328d33f || 5
11.0-alpha-qe-sm.46 - 5.11.0-next.2 || >=6.0.0-alpha-9689ff.5
       Depends on vulnerable versions of gatsby
       Depends on vulnerable versions of gatsby-plugin-sharp
       node_modules/gatsby-remark-images
     gatsby-plugin-sitemap  4.10.0-alpha-qe-sm.46 - 4.10.0-next.2 || >=5.0.0-alpha-9689ff.5
     Depends on vulnerable versions of gatsby
     node_modules/gatsby-plugin-sitemap
     gatsby-plugin-typescript  3.14.0-alpha-qe-sm.33 - 3.14.0-next.4 || >=4.0.0-alpha-9689ff.4
     Depends on vulnerable versions of babel-plugin-remove-graphql-queries
```

PORZĄDEK

- `npm prune`
- `npm dedupe`
- `npm ls` *
- `npm cache clean —force` *

```
→  dawidrylko.com git:(master) ✗ npm ls
dawidrylko.com@1.0.1 /Users/dawid/Projects/_my/dawidrylko.com
├── @eslint/js@9.37.0
├── @fontsource-variable/montserrat@5.2.8
├── @fontsource/merriweather@5.2.11
├── @mdx-js/react@3.1.1
├── @types/node@24.7.2
├── @types/react-dom@19.2.2
├── @types/react@19.2.2
├── eslint-config-react-app@7.0.1
├── eslint-plugin-flowtype@8.0.3
├── eslint-plugin-react@7.37.5
├── eslint@9.37.0
├── gatsby-plugin-canonical-urls@5.15.0
├── gatsby-plugin-feed@5.15.0
├── gatsby-plugin-google-gtag@5.15.0
├── gatsby-plugin-image@3.15.0
├── gatsby-plugin-manifest@5.15.0
├── gatsby-plugin-mdx@5.15.0
├── gatsby-plugin-sharp@5.15.0
├── gatsby-plugin-sitemap@6.15.0
├── gatsby-remark-images@7.15.0
├── gatsby-remark-katex@7.15.0
├── gatsby-remark-prismjs@7.15.0
├── gatsby-remark-responsive-iframe@6.15.0
├── gatsby-source-filesystem@5.15.0
├── gatsby-transformer-sharp@5.15.0
├── gatsby@5.15.0
├── globals@16.4.0
├── husky@9.1.7
├── katex@0.13.3
├── prettier@3.6.2
├── prismjs@1.30.0
├── react-dom@18.3.1
├── react-schemaorg@2.0.0
├── react@18.3.1
├── schema-dts@1.1.5
├── typescript-eslint@8.46.1
└── typescript@5.9.3
```

DIAGNOSTYKA

- `npm doctor`
- `npm config list`
- `npm explain <pkg>` *

```
→  dawidrylko.com git:(master) ✗ npm doctor
Connecting to the registry
Ok

Checking npm version
Not ok
Use npm v11.6.2

Checking node version
Not ok
Use node v22.20.0 (current: v22.17.0)

Checking configured npm registry
Ok
using default registry (https://registry.npmjs.org/)

Checking for git executable in PATH
Ok
/usr/bin/git

Checking for global bin folder in PATH
Ok
/Users/dawid/.nvm/versions/node/v22.17.0/bin

Checking permissions on cached files (this may take awhile)
Ok

Checking permissions on local node_modules (this may take awhile)
Ok

Checking permissions on global node_modules (this may take awhile)
Ok

Checking permissions on local bin folder
Ok

Checking permissions on global bin folder
Ok

Verifying cache contents (this may take awhile)
npm warn doctor verifyCachedFiles Content garbage-collected: 3522 (2518341751 bytes)
npm warn doctor verifyCachedFiles Cache issues have been fixed
Ok
verified 6337 tarballs
```

npm run <script>	skrypty w projekcie
npx <pkg>	uruchamianie bez instalacji
npm outdated npm update npm version patch|minor|major	aktualizacje
npm audit npm audit fix	bezpieczeństwo
npm prune npm dedupe	porządek
npm doctor npm config list	diagnostyka

„Dziwne... u mnie działa.”

- każdy programista JavaScript