

NPM

automatyzacja, npx, narzędzia...

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AUTOMATYZACJA

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

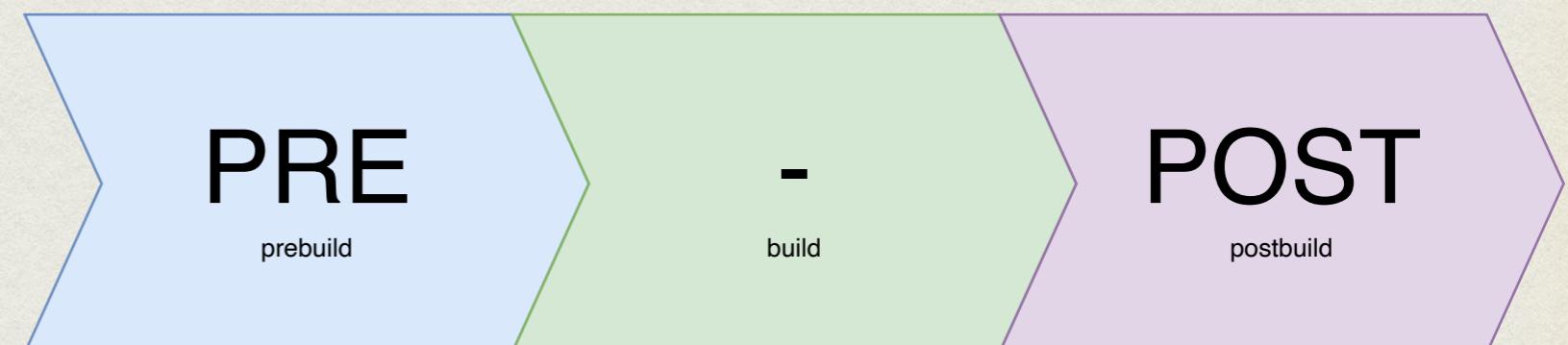
```
> Debug
"scripts": {
  "develop": "gatsby develop",
  "start": "gatsby develop",
  "build": "gatsby build",
  "serve": "gatsby serve",
  "clean": "gatsby clean",
  "type:check": "tsc --noEmit",
  "format:write": "prettier --write \"**/*.{js,jsx,ts,tsx,json,md}\"",
  "format:check": "prettier --check \"**/*.{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- `npm outdated`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dawidrylko.com git:(master) ✘ npm outdated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
  severity: moderate
  parcel has an Origin Validation Error vulnerability - https://github.com/advisories/GHSA-qm9p-f9j5-w83w
    fix available via 'npm audit fix --force'
    will install gatsby@3.3.1, which is a breaking change
  node_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
                                                  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
```

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npm outdated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

„Dziwne... u mnie działa.”

- każdy programista JavaScript