

WELCOME TO THE JUNGLE!

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NODE.JS

Node.js® is an asynchronous event driven JavaScript runtime built on Chrome's V8 JavaScript engine.

Silnik JS z przeglądarki bez przeglądarki..

NPM

A package manager for JavaScript

PACKAGE.JSON

Zawiera meta-dane na temat projektu

List zależności/skryptów

```
npm init
```

```
npm init -y
```

package.json

```
{
  "name": "front-end-lvlup",
  "version": "1.0.0",
  "description": "",
  "main": "index.js",
  "scripts": {
    "test": "echo \\\"Error: no test specified\\\" && exit 1"
  },
  "keywords": [],
  "author": "Konrad Świercz",
  "license": "ISC"
}
```

```
{
  "name": "front-end-lvlup",
  "version": "1.0.0",
  "description": "",
  -- "main": "index.js",
  ++ "private": true,
  "scripts": {
    "test": "echo \\\"Error: no test specified\\\" && exit 1"
  },
  "keywords": [],
  "author": "Konrad Świercz",
  "license": "ISC"
}
```

```
npm install package --save
```

```
npm install package --save-dev
```

package.json

```
{
  "name": "front-end-lvlup",
  "version": "1.0.0",
  "description": "",
  "private": true,
  "scripts": {
    "test": "echo \\\"Error: no test specified\\\" && exit 1"
  },
  "keywords": [],
  "author": "Konrad Świercz",
  "license": "ISC",
+  "dependencies": {
+    "package": "^4.29.6"
+  },
+  "devDependencies": {
+    "package": "^3.3.0"
+  }
}
```

```
npm install
```

```
npm install --production
```

TASK RUNNERS

- Grunt

<https://gruntjs.com/>

- Gulp

<https://gulpjs.com/>

- npm scripts

<https://docs.npmjs.com/misc/scripts>

package.json

```
{
  "name": "front-end-lvlup",
  "version": "1.0.0",
  "description": "",
  "private": true,
+  "scripts": {
+    "test": "echo \\\"Error: no test specified\\\" && exit 1",
+    "start": "node start.js",
+    "prebuild": "npm run test && node before-build.js",
+    "build": "node build.js",
+    "postbuild": "node cleanup.js"
+  },
  "keywords": [],
  "author": "Konrad Świercz",
  "license": "ISC",
  "dependencies": {
    "package": "^4.29.6"
  },
  "devDependencies": {
    "package": "^3.3.0"
  }
}
```

```
npm run build
```

WEB APPLICATION BUNDLER

- Webpack <<

<https://webpack.js.org/>

- Parcel

<https://parceljs.org/>

- Rollup

<https://rollupjs.org/>


```
npm i webpack webpack-cli -S
```

package.json

```
{
  "name": "front-end-lvlup",
  "version": "1.0.0",
  "description": "",
  "private": true,
  "scripts": {
    "test": "echo \\\"Error: no test specified\\\" && exit 1",
+   "build": "webpack --config webpack.config.js",
  },
  "keywords": [],
  "author": "Konrad Świercz",
  "license": "ISC",
+  "dependencies": {
+    "webpack": "^4.29.6",
+    "webpack-cli": "^3.3.0"
+  }
}
```

```
| - package.json
| - webpack.config.js
| - /src
| - index.js
```

webpack.config.js

```
var path = require('path');

module.exports = {
  entry: './src/index.js',
  output: {
    filename: 'main.js',
    path: path.resolve(__dirname, 'dist')
  }
};
```

```
npm run build
```

```
| - package.json
| - webpack.config.js
| - /dist
| - main.js
| - /src
| - index.js
```

WEBPACK

webpack.config.js

```
var path = require('path');

module.exports = {
  entry: './src/index.js',
  output: {
    filename: 'main.js',
    path: path.resolve(__dirname, 'dist')
  }
};
```

Nie ma HTML?

```
npm install --save-dev html-webpack-plugin
```

```
var path = require('path');  
+ var HtmlWebpackPlugin = require('html-webpack-plugin');  
  
module.exports = {  
  entry: 'index.js',  
  output: {  
    path: path.resolve(__dirname, './dist'),  
    filename: 'index_bundle.js'  
  },  
+  plugins: [new HtmlWebpackPlugin()]  
};
```

```
npm run build
```

```
| - package.json  
| - webpack.config.js  
| - /dist  
+ | - index.html  
  | - main.js  
| - /src  
  | - index.js
```

BABEL

A JavaScript compiler

```
npm install --save-dev babel-loader @babel/core @babel/preset-env
```

```
var path = require('path');
var HtmlWebpackPlugin = require('html-webpack-plugin');

module.exports = {
  entry: 'index.js',
  output: {
    path: path.resolve(__dirname, './dist'),
    filename: 'index_bundle.js'
  },
  plugins: [new HtmlWebpackPlugin()],
+  module: {
+    rules: [
+      {
+        test: /\.js$/,
+        exclude: /node_modules/,
+        use: {
+          loader: 'babel-loader',
+          options: {
+            presets: ['@babel/preset-env']
+          }
+        }
+      }
+    ]
+  }
+};
```

PRESET-ENV

package.json

```
{
  "name": "front-end-lvlup",
  "version": "1.0.0",
  "description": "",
  "private": true,
  "scripts": {
    "test": "echo \\\"Error: no test specified\\\" && exit 1",
    "build": "webpack --config webpack.config.js",
  },
  "keywords": [],
  "author": "Konrad Świercz",
  "license": "ISC",
  "dependencies": {
    "webpack": "^4.29.6",
    "webpack-cli": "^3.3.0"
  },
  "devDependencies": {
    "@babel/core": "^7.3.4",
    "@babel/preset-env": "^7.3.4",
    "babel-loader": "^8.0.5",
    "html-webpack-plugin": "^3.2.0"
  },
  + "browserslist": "> 0.25%, not dead"
}
```

A CSS?

```
npm install --save-dev css-loader style-loader
```

webpack.config.js

```
var path = require('path');
var HtmlWebpackPlugin = require('html-webpack-plugin');

module.exports = {
  entry: './src/index.js',
  output: {
    filename: 'main.js',
    path: path.resolve(__dirname, 'dist')
  },
  module: {
    rules: [
      {
        test: /\.js$/,
        exclude: /node_modules/,
        use: {
          loader: 'babel-loader',
          options: {
            presets: ['@babel/preset-env']
          }
        }
      },
      {
        test: /\.css$/,
        use: ['style-loader', 'css-loader'],
      }
    ]
  },
  plugins: [new HtmlWebpackPlugin()]
};
```

```
| - package.json
| - webpack.config.js
| - /dist
|   | - index.html
|   | - main.js
| - /src
|   | - /styles
|   |   | - style.css
|   | - index.js
```

/src/index.js

```
import './styles/style.css';
```

A SASS/LESS/POSTCSS?

Loader

A OBRAZKI/FONTY/INNE ASSETY?

Loader.

A?

Loader!

<https://webpack.js.org/loaders>

WEBPACK MODES

- development
- production

webpack.config.js

```
var path = require('path');
var HtmlWebpackPlugin = require('html-webpack-plugin');

module.exports = {
  entry: './src/index.js',
  output: {
    filename: 'main.js',
    path: path.resolve(__dirname, 'dist')
  },
+ mode: 'development', // 'production'
  module: {
    rules: [
      {
        test: /\.js$/,
        exclude: /node_modules/,
        use: {
          loader: 'babel-loader',
          options: {
            presets: ['@babel/preset-env']
          }
        }
      },
      {
        test: /\.css$/,
        use: ['style-loader', 'css-loader'],
      }
    ]
  },
  plugins: [new HtmlWebpackPlugin()]
};
```


LINTER

Narzędzie do analizy kodu i oznaczania błędów.

- JSLint

<https://www.jshint.com/>

- JSHint

<https://jshint.com/>

- ESLint <<

<https://eslint.org/>

PRETTIER

<https://prettier.io/>

An opinionated code formatter

DEVELOPER ROADMAP

<https://github.com/kamranahmedse/developer-roadmap>

MAILING!

- Codrops Collective
- CSS Weekly
- Frontend Focus
- JavaScript Weekly
- Node Weekly
- React Status
- Web Design Weekly
- Web Tools Weekly

DZIĘKI!