

Web Advanced

Javascript: Webpack, Babel, Jest

DE HOGESCHOOL MET HET NETWERK

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What is Babel?

Babel is a JavaScript compiler

Babel is a toolchain that is mainly used to convert ECMAScript 2015+ code into a backwards compatible version of JavaScript in current and older browsers or environments. Here are the main things Babel can do for you:

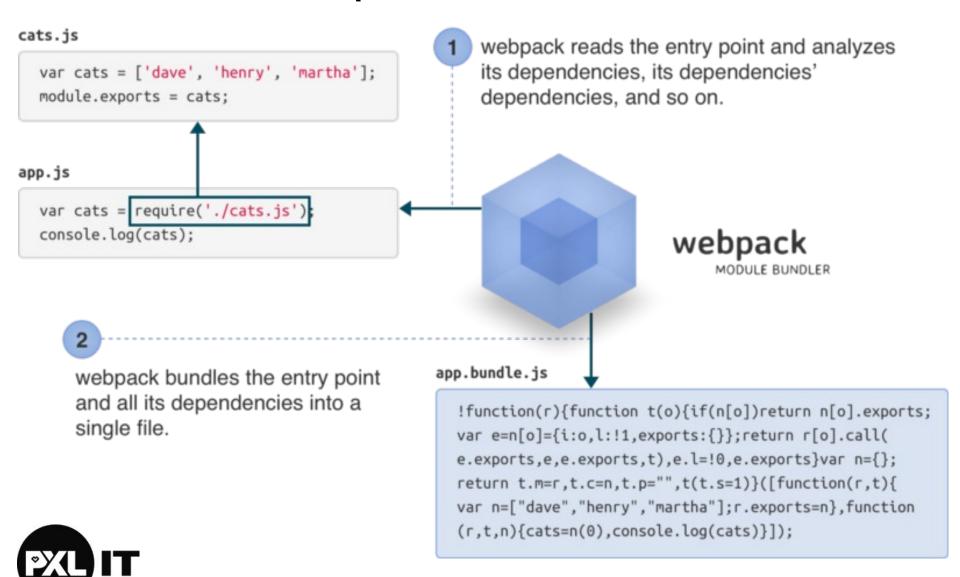
- · Transform syntax
- Polyfill features that are missing in your target environment (through @babel/polyfill)
- Source code transformations (codemods)
- And more! (check out these videos for inspiration)

```
JavaScript

// Babel Input: ES2015 arrow function
[1, 2, 3].map((n) => n + 1);

// Babel Output: ES5 equivalent
[1, 2, 3].map(function(n) {
   return n + 1;
});
```

What is Webpack?



Installatie

- (1) Installeer nodejs https://nodejs.org/en/download/
- (2) Installeer npm https://www.npmjs.com/get-npm
- (3) Download de skelet-toepassing van Blackboard webpack babel skeleton.zip

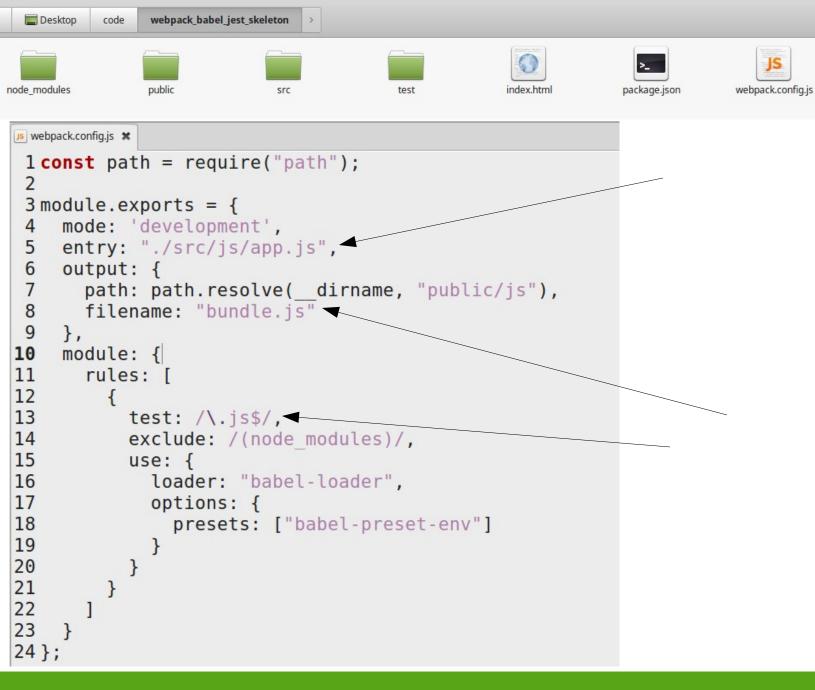




```
package.json *
    "name": "webpack babel jest skeleton",
   "version": "1.0.0".
   "description": "",
   "main": "app.js",
 6▼ "scripts": {
      "build": "webpack --config webpack.config.js",
   "test": "iest",
   "start:server": "webpack-dev-server"
10
11
    "keywords": [],
12
   "author": ""
13
   "license": "ISC",
14 "devDependencies": {
      "babel-cli": "^6.26.0",
16
      "babel-core": "^6.26.3",
17
      "babel-jest": "^23.6.0",
      "babel-loader": "^7.1.5",
    "babel-preset-env": "^1.7.0",
      "iest": "^23.6.0",
20
```

ABC

.babelrc



ks Help





Alle modules downloaden: \$ npm install

babel, webpack, jest worden in node modules geplaatst

Bundle maken

\$ npm run build

script met naam build (uit package.json) wordt uitgevoerd

```
"scripts": {
   "build": "webpack --config webpack.config.js",
   "test": "jest",
   "start:server": "webpack-dev-server"
```

in public/ wordt bundle.js gemaakt

Tests runnen (zie slides jest) \$ npm run test Server starten \$ npm run start:server

