

# nodejs+webpack+react开发从零开始

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- 在官网下载nodejs最新版，解压，添加bin路径到环境变量PATH
  - 测试 npm 和 node 命令
  - 新建工程目录
  - 在工程目录下执行：npm init 创建默认 package.json 文件
- 下面是添加了一些依赖以后的package.json文件，增加了 build 和 dev 命令

```
{
  "name": "react-demo",
  "version": "1.0.0",
  "description": "",
  "main": "main.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1",
    "dev": "./node_modules/.bin/webpack-dev-server --devtool cheap-source-map --hot --inline",
    "build": "./node_modules/.bin/webpack -p"
  },
  "keywords": [],
  "author": "",
  "license": "ISC",
  "devDependencies": {
    "babel-core": "^6.8.0",
    "babel-loader": "^6.2.4",
    "babel-preset-react": "^6.5.0",
    "react": "^15.0.2",
    "webpack": "^1.13.0"
  }
}
```

- 安装 react react-dom webpack （react最新版本将react-core 和 react-dom分开，react-dore部分可以再react-native中使用）

```
npm install react react-dom --save-dev
npm install webpack --save-dev
npm install --save-dev webpack-dev-server
```

- 安装各种loader （babel是将ES6代码编译为ES5代码的工具，同时也可以用来编译 jsx 文件，拥有同样功能的还有 nodejs的官网工具 harmony ）

```
npm install url-loader --save-dev
npm install style-loader --save-dev
npm install babel-loader babel-core babel-preset-es2015 --save-dev
npm install --save-dev babel-preset-react
```

- 在项目根目录下新建 `webpack.config.js` 文件

```
var path = require('path');
var webpack = require('webpack');
module.exports = {
  entry: {
    a: ['webpack-dev-server/client?http://localhost:8080'],
    "main": path.resolve(__dirname, './app/main.jsx')
  },
  output: {
    path: path.resolve(__dirname, './build'),
    filename: '[name].bundle.js',
    publicPath: "/assets/"
  },
  module: {
    loaders: [
      { test: /\.css$/, loader: 'style-loader!css-loader' },
      { test: /\.?(png|jpg)$/, loader: 'url-loader?limit=8192' },
      {
        test: /\.jsx$/,
        loader: 'babel',
        include: path.join(__dirname, 'app')
      }
    ]
  },
  resolve: {
    // you can now require('file') instead of require('file.coffee')
    extensions: ['', '.js', '.jsx']
  }
};
```

- 新建 `app/main.js` 文件和 `build` 文件夹
- 运行 `./node_modules/.bin/webpack` 编译, 查看结果
- `./node_modules/.bin/webpack-dev-server --inline --hot` 运行调试
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