

Easy Install

```
create app      npm create-react-app my-app
delete src      del src/*
creating files  type nul > index.css
                type nul > index.js
index.js       import React from 'react';
                import ReactDOM from 'react-dom';

                import './index.css';
```

Build

```
run server      npm start
create bundle   npm run build
```

Deploy

Setup from Scratch

```
Initializing  npm init
Install React  npm install react react-dom --save
Install webpack  npm install webpack webpack-dev-server webpack-cli --save
Install babel  npm install babel-core babel-loader babel-preset-env babel-preset-react html-webpack-plugin --save-dev
```

Structure

```
index.html    type nul > index.html
App.js        type nul > App.js
main.js       type nul > main.js
webpack.config.js  type nul > webpackconfig.js
.babelrc      type nul > .babelrc
```

React



Set Compiler, Server & Loader

```
File : webpack.config.js
const path = require('path');
const HtmlWebpackPlugin = require('html-webpack-plugin');
module.exports = {
  entry: './main.js',
  output: {
    path: path.join(__dirname, '/bundle'),
    filename: 'index_bundle.js'
  },
  devServer: {
    inline: true,
    port: 8001
  },
  module: {
    rules: [
      {
        test: /\.jsx?$/,
        exclude: /node_modules/,
        loader: 'babel-loader',
        query: {
          presets: ['es2015', 'react']
        }
      }
    ]
  }
},
```

Set Compiler, Server & Loader (cont)

```
> plugins:[
  new HtmlWebpackPlugin({
    template: './index.html'
  })
]
```

package.json

```
{
  "name": "reactApp",
  "version": "1.0.0",
  "description": "First React App",
  "main": "index.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "keywords": [],
  "author": "KNIGHT blood",
  "license": "ISC",
  "dependencies": {
    "react": "^16.12.0",
    "react-dom": "^16.12.0",
    "webpack": "^4.15.1",
    "webpack-cli": "^3.1.0",
    "webpack-dev-server": "^3.1.0"
  },
  "devDependencies": {
    "babel-core": "^6.26.3",
```



package.json (cont)

```
> "babel-loader": "^8.0.6",
  "babel-preset-env": "^1.7.0",
  "babel-preset-react": "^6.24.1",
  "html-webpack-plugin": "^3.2.0"
}
```

index.html

```
<!DOCTYPE html>
<html lang = " en">
  <head>
    <meta charset = " -
UTF -8">
    <title>React
App</title>
  </head>
  <body>
    <div id = " app " >
</div>
    <script src =
'index _bu ndl e.j s'> </script>
  </body>
</html>
```

App.js

```
import React, { Component } from
'react';
class App extends Component{
  render(){
    return(
      <div>
        <h1 -
>Hello World</h1>
      </div>
    );
  }
}
export default App;
```

main.js

```
import React from 'react';
import ReactDOM from 'react -
dom';
import App from './App.js';
ReactDOM.render (<App />,
document.getElementByIdBy -
Id( 'ap p'));
```

.babelrc

```
{
  "presets": [ " env ",
" rea ct" ]
}
```

Components are made with jsx

HTML <div v> {'Hell o'.t oU ppe rCa se()} </div>

flips

to js

Like

```
<div className ="he llo --u ppe r"> {'Hell o'.t oU ppe rCa s
e()} </div>
```



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