Webpack

1. npm init
2. npm i webpack –save-dev
3. app/hello.js

```
module.exports = function () {
    var hello= document.createElement('div');
    hello.textContent = 'Hello, Webpack!';
    return hello;
};
```

4. app/main.js

```
const hello = require('./hello');
document.querySelector('#root').appendChild(hello());
```

5. public/index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Title</title>
</head>
<body>
<div id="root"></div>
<script src="bundle.js"></script>
</body>
</html>
```

6. cmd: [node_module/.bin/]webpack app/main.js public/bundle.js
7. index.html > Hello, Webpack!

---

8. webpack.config.js

```
module.exports = {
  entry: __dirname + "/app/main.js",
  output: {
    path: __dirname + "/public",
    filename: "bundle.js"
  }
}
```

9. cmd: [node_module/.bin/]webpack
10. package.json

```
"scripts": {
"start": "webpack"
}
```

11. npm [run] start

12. npm install webpack-dev-server –save-dev
13. webpack.config.js

```
devServer: {
    contentBase: "./public",
    historyApiFallback: true,
    inline: true
}
```

14. package.json

```
"scripts": {
    "start": "webpack",
    "server": "webpack-dev-server --open"
}
```

15. cmd: npm run server

16. app/config.json

```
{
  "helloText": "Hello, Webpack from JSON!"
}
```

17. app/hello.js

```js
var config = require('./config.json');

module.exports = function() {
  var hello = document.createElement('div');
  hello.textContent = config.helloText;
  return hello;
};
```

18. cmd: npm install –save-dev babel-core babel-loader babel-preset-es2015 babel-preset-react
19. webpack.config.js

```js
module: {
    rules: [
        {
            test: /(\.jsx|\.js)$/,
            use: {
                loader: "babel-loader",
                options: {
                    presets: [
                        "es2015", "react"
                    ]
                }
            },
            exclude: /node_modules/
        }
    ]
}
```

20. cmd: npm install –save react react-dom
21. app/hello.js

```
import React, {Component} from 'react'
import config from './config.json';

class hello extends Component{
  render() {
    return (
      <div>
        {config.helloText}
      </div>
    );
  }
}


export default hello
```

22. app/main.js

```
import React from 'react';
import {render} from 'react-dom';
import hello from './hello';

render(<hello />, document.getElementById('root'));
```

23. cmd: npm [run] start
24. cmd: npm run server

25. cmd: npm install style-loader css-loader –save-dev
26. webpack.config.js

```
module: {
    rules: [
        {
            test: /\.css$/,
            use: [
                {
                    loader: "style-loader"
                }, {
                    loader: "css-loader"
                }
            ]
        }
    ]
}
```

27. app/style.css

```css
body {
  margin: 0;
  font-family: 'Helvetica Neue', Helvetica, Arial, sans-serif;
}
```

28. app/main.js

```js
import React from 'react';
import {render} from 'react-dom';
import hello from './hello';

import './style.css';

render(<hello />, document.getElementById('root'));
```