

# webpack-examples (0.0.1)

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Version 0.0.1, 2018-06-18 01:16:41 EEST

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Travis CI status:

# Chapter 1. Introduction

Read [reference documentation](#)

webpack 4 examples:

- [starter without config file](#)
- [basic starter](#)
- [add html-webpack-plugin](#)
- [add webpack-dev-server](#)
- [add css-loader and style-loader](#)
- [process html and using html / file loaders](#)

# Chapter 2. Quickstart

## 2.1. no config

*using webpack without `webpack.config.js` file*

```
mkdir starter-no-config
cd starter-no-config/

mkdir src dist
echo "console.log('hey!');" >> src/index.js
echo "<script src='./main.js'></script>" >> dist/index.html

npm init -y
npm i -g webpack webpack-cli
#npm i -DE webpack webpack-cli

webpack --mode=development
webpack --mode production
```

## 2.2. basic config

*using webpack with basic config file: `config/webpack.dev.js`*

```
const { resolve } = require('path');

module.exports = {
  entry: {
    main: './src/index.js'
  },
  mode: 'development',
  output: {
    filename: '[name]-bundle.js',
    path: resolve(__dirname, '../dist'),
  },
};
```

## 2.3. add HTML plugin

*install `html-webpack-plugin`*

```
npm i -DE html-webpack-plugin
```

*update webpack config*

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

module.exports = {
  // ...
  plugins: [
    new HtmlWebpackPlugin({
      template: './src/index.html',
      favicon: './src/favicon.ico',
    }),
  ],
};
```

## 2.4. add webpack-dev-server

*update webpack config*

```
const { resolve, join } = require('path');

module.exports = {
  // ...
  devServer: {
    contentBase: join(__dirname, '../dist'),
    // show / overlay errors in browser
    overlay: true,
  },
};
```

*install and run webpack-dev-server*

```
npm i -DE webpack-dev-server
webpack-dev-server --config config/webpack.dev.js
```

## 2.5. add css-loader and style-loader

*add some css styles*

```
body {  
  margin: 0;  
  background-color: #444;  
}  
  
/* lets centred content using flex */  
#app {  
  height: 100vh;  
  display: flex;  
  align-items: center;  
  justify-content: center;  
}  
  
/* font styling */  
h1 {  
  color: white;  
  font-size: 3em;  
  font-family: Helvetica, sans-serif, 'DejaVu Sans', Arial;  
  text-shadow: 0 0 25px white;  
}
```



These loaders will apply in reverse order: first, **css-loader**, next: **style-loader**

*install css-loader and style-loader*

```
npm i -DE css-loader style-loader
```

*update webpack config*

```
module.exports = {  
  // ...  
  module: {  
    rules: [  
      {  
        test: /\.css$/i,  
        use: [  
          { loader: 'style-loader' },  
          { loader: 'css-loader' },  
        ],  
      },  
    ],  
  },  
};
```

## 2.6. process html and using html / file loaders

prepare `./src/index.html`

```
<!doctype html>
<html lang="en">
<head>
  <meta charset="utf-8">
  <title>Webpack | Examples</title>
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="shortcut icon" href="favicon.ico" type="image/x-icon">
  <link rel="stylesheet" href="styles.css">
</head>
<body>
  <div id="app"></div>
  <script src="main-bundle.js"></script>
</body>
</html>
```



Few thinks are happening here: First, `html-loader` will do necessary linting of `*.html` files. Then `extract-loader` will tell webpack do not include it in result `bundle.js` file. And finally `file-loader` will put extracted content in output dir accordingly

remove useless plugin and install requires loaders: `html-loader`, `extract-loader` and `file-loader`

```
npm rm -DE html-webpack-plugin
npm i -DE html-loader extract-loader file-loader
```

update webpack config

```
// const HtmlWebpackPlugin = require('html-webpack-plugin');

module.exports = {
  // ...
  /*
  plugins: [
    new HtmlWebpackPlugin({
      template: './src/index.html',
      favicon: './src/favicon.ico',
    }),
  ],
  module: {
    rules: [
      {
        test: /\.css$/i,
        use: [
          { loader: 'style-loader' },
          { loader: 'css-loader' },
        ],
      },
    ],
  },
}
```



```

    ],
  },
],
},
*/
module: {
  rules: [
    {
      test: /\.css$/i,
      use: [
        {
          loader: 'file-loader',
          options: {
            name: '[name].[ext]',
          },
        },
        { loader: 'extract-loader' },
        { loader: 'css-loader' },
      ],
    },
    {
      test: /\.html$/i,
      use: [
        {
          loader: 'file-loader',
          options: {
            name: '[name].[ext]',
          },
        },
        { loader: 'extract-loader' },
        { loader: 'html-loader' },
      ],
    },
    {
      test: /\.ico$/i,
      use: [
        {
          loader: 'file-loader',
          options: {
            name: '[name].[ext]',
          },
        },
      ],
    },
  ],
},
];
};

```

finally combine all together in `./src/index.js`

```
require('./index.html');
require('./styles.css');
require('./favicon.ico');
```



I wont use that approach, I prefer `HtmlWebpackPlugin` and `ExtractTextWebpackPlugin`

## 2.7. using extract-text-webpack-plugin

*install*

```
npm rm -ED style-loader
npm i -DE extract-text-webpack-plugin@next css-loader
# also add less support
npm i -DE less-loader less
```

*update webpack config*

```
const ExtractTextPlugin = require('extract-text-webpack-plugin');
const cssContent = new ExtractTextPlugin('[name]-[hash:8].css');
const lessContent = new ExtractTextPlugin('[name].less-[hash:8].css');

module.exports = {
  // ...
  module: {
    rules: [
      {
        test: /\.css$/i,
        use: cssContent.extract([
          'css-loader',
        ]),
      },
      {
        test: /\.less$/i,
        use: cssContent.extract([
          'css-loader',
          'less-loader',
        ]),
      },
    ],
  },
  plugins: [
    cssContent,
    lessContent,
  ],
};
```



There are better option available for using instead of extract text plugin: **mini-css-extract-plugin**

## 2.8. using mini-css-extract-plugin

*install*

```
npm rm extract-text-webpack-plugin
npm i -DE mini-css-extract-plugin
```

*update webpack config*

```
const mode = process.env.NODE_ENV || 'production';
const isProduction = mode === 'production';
const MiniCssExtractPlugin = require('mini-css-extract-plugin');
const styleLoader = isProduction ? MiniCssExtractPlugin.loader : 'style-loader';
const cssLoader = {
  loader: 'css-loader',
  options: {
    importLoaders: 1,
  },
};

module.exports = {
  // ...
  module: {
    rules: [
      {
        test: /\.css$/i,
        use: [
          styleLoader,
          cssLoader,
          // 'postcss-loader',
          { loader: 'postcss-loader', options: { ident: 'postcss' } },
        ],
      },
    ],
  },
  plugins: [
    new MiniCssExtractPlugin({
      filename: '[name]-[hash:8].css',
    }),
  ],
};
```

# Chapter 3. Links

- [Asciidoctor reference](#)
- [GitHub repo: lawwantsin/webpack-course](#)
- [GitHub](#)
- `link:[Webpack documentation]`
- [HTML webpack plugin documentation](#)
- [HTML webpack-dev-server documentation](#)
- [extract-loader](#)
- [extract-text-webpack-plugin](#)