Webpack cheatsheet

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This is a very basic "getting started with Webpack" guide for use with Webpack v3. This doesn't cover all features, but it should get you started in understanding the config file format.

Basic config

webpack.config.js

```
module.exports = {
  context: __dirname,
  entry: 'src/app.js',
  output: {
    path: __dirname + '/public',
    filename: 'app.js'
  }
}
```

Terminal

```
npm install --save-dev webpack
```

`webpack`	build
`webpack -p`	build production
`webpack -w --watch`	compile continuously

This compiles `src/app.js` into `public/app.js`. (Note: you may need to use `./node_modules/.bin/webpack` as a command if you're not invoking Webpack via npm scripts.)

Multiple files

webpack.config.js

```
module.exports = {
  entry: {
    app: 'src/app.js',
    vendor: 'src/vendor.js'
  },
  output: {
    path: __dirname + '/public',
    filename: '[name].js'
  }
}
```

This creates `app.js` and `vendor.js`.

Loaders

Babel

Terminal

```
npm install --save-dev \
  babel-loader \
  babel-preset-env \
  babel-preset-react
```

webpack.config.js

```
module.exports = {
  ...
  module: {
    rules: [
      { test: /.js$/,
        exclude: /node_modules/,
        use: [
          { loader: 'babel-loader' },
          { loader: 'cssnext-loader' }
        ]
      }
    ]
  }
}
```

.babelrc

```
{
  "presets": [ "env", "react" ]
}
```

Adds support for Babel.

CSS

Terminal

```
npm install --save-dev \
  css-loader \
  style-loader
```

webpack.config.js

```
module.exports = {
  ...
  module: {
    rules: [
      { test: /.js$/,
        exclude: /node_modules/,
        use: [
          { loader: 'babel-loader' },
          { loader: 'cssnext-loader' }
        ]
      }
    ]
  }
}
```

Your JavaScript

```
import './styles.css'
// or:
require('./styles.css')
```

This allows you to use CSS inside your JavaScript. This packages your CSS inside your JavaScript bundle.

PostCSS

Terminal

```
npm install --save-dev \
  postcss-loader \
  postcss-cssnext
```

webpack.config.js

```
...
// Inside module.rules[]:
{ test: /.s?c?ss$/,
  exclude: /node_modules/,
  use: [
    { loader: 'style-loader' },
    { loader: 'cssnext-loader' },
    { loader: 'postcss-loader' }
  ]
}
...
```

postcss.config.js

```
module.exports = {
  plugins: [
    require('postcss-cssnext')
  ]
}
```

This example adds **postcss-cssnext** support to your CSS files.

Other features

Dev server

package.json

```
{ ...
  "scripts": {
    "dev": "webpack -w --progress --colors --bail --hot --inline --devtool cheap-module-eval-source-map --output-pretty-error-stack --output-path /tmp/webpack --output-filename app.js --output-chunk-filename [name].chunk.js --output-source-map --output-public-path /assets/ --watch-stdin --watch-poll --watch-aggregate-timeout 300 --watch src/app.js --watch-exclude node_modules/.bin/webpack --watch-exclude node_modules/.bin/webpack.cmd --watch-exclude node_modules/.bin/webpack.ps1 --watch-exclude node_modules/.bin/webpack-dev-server --watch-exclude node_modules/.bin/webpack-dev-server.cmd --watch-exclude node_modules/.bin/webpack-dev-server.ps1 --watch-exclude node_modules/.bin/webpack-dev-middleware --watch-exclude node_modules/.bin/webpack-dev-middleware.cmd --watch-exclude node_modules/.bin/webpack-dev-middleware.ps1 --watch-exclude node_modules/.bin/webpack-dev-middleware-server --watch-exclude node_modules/.bin/webpack-dev-middleware-server.cmd --watch-exclude 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