

Difference between Loaders and Plugins in Webpack

Loaders	Plugins
<ul style="list-style-type: none">Loaders in webpack are transformations that are applied to the source code of a module. They allow you to pre-process files as you require() or import them.Loaders are typically used to transform files from one format to another, such as converting TypeScript to JavaScript, or Sass/SCSS to CSS.Loaders are defined in the module.rules array in the webpack configuration fileInstalling Style loader and CSS loader: npm i -D style-loader css-loaderExample: module: { rules: [{ test: /\.css\$/, use: ["style-loader", "css-loader", "less-loader"] }] }, <p>In the above example,</p> <ul style="list-style-type: none">the less-loader will convert the file into CSS.then the css-loader will convert into a javascript file in an array format.which can be consumed by style-loader and -style-loader converts the file into a JavaScript module.	<ul style="list-style-type: none">Plugins in webpack are more powerful than loaders. They can be used to perform a wider range of tasks like bundle optimization, asset management, and injection of environment variables.Plugins have access to the entire webpack lifecycle and can interact with the compiler.Plugins are typically instantiated using the new keyword and are included in the plugins array in the webpack configuration file.80% of the webpack is made up of its own plugin system. Webpack itself is an event-driven architecture.Installing pluginsnpm i -D mini-css-extract-pluginExample: const HtmlWebpackPlugin = require("html-webpack-plugin"); module.exports = { plugins: [new HtmlWebpackPlugin({ template: "./src/index.html", }),], }; <p>In the above example</p> <p>In this example, HtmlWebpackPlugin is a plugin used to generate an HTML file and inject the bundled JavaScript automatically.</p>