

Webpack Workflow Layout

1. Create **Directory/Folder** Layout:

- **site-project-folder:**
 - **src:** Preprocessed Source Files
 - **images**
 - **js**
 - **pages**
 - **scss**
 - **index.html**
 - **webpack.config.js**

~~~~~ added each time through terminal/command line ~~~~~

- **node\_modules**
- **package.json**
- **.gitignore**

~~~~~ install Webpack Locally to project ~~~~~

2. Start **Terminal** and **change directory** to **project folder**: (might make this shorter later)

- **cd ~/Desktop/Work/sites/site-project-folder**
or to create a new folder in current directory
- **mkdir site-project-folder**
and change to project directory
- **cd site-project-folder**

3. Generate **package.json** file in project folder:

- **npm init**

4. Add info to the **package.json** file (**enter** to skip a section):

- **Description:** "Description of website Project."
- **Entry Point/Main:** app.js
(the default file to direct to in your project)
- **Keywords:** [
 "webpack",
 "sass", etc...
]
(tags for your project if you decide to publish it on the web as an npm package)
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5. Install **Webpack** locally: (creates **node_modules** directory)

- **npm install --save-dev webpack webpack-cli webpack-dev-server**

6. Install **Webpack Plugins**:

- Sass, NodeSass, PostCSS, PostCSSPresetENV, CSS, MiniCSS, Babel, @babel/core, @babel/preset-env, html-loader, file-loader, html-webpack-plugin, clean-webpack-plugin
- Use **--save-dev** to save the plugin package to the project. Easier on team members.
- Use **table** below to **copy/paste** most used **plugins** to **install**:

7. Setup/copy **webpack.config.js** into folder.

| Gulp Plugins Used | | | |
|-------------------|------------------------|------------------|---------------------|
| Plugin Name | npm install --save-dev | webpackconfig.js | Uses: |
| Sass | sass-loader | sass-loader | Pass Only New Files |
| NodeSass | node-sass | node-sass | Rename Files |

| Gulp Plugins Used | | | |
|--|-------------------------|-------------------------|----------------------------|
| Plugin Name | npm install --save-dev | webpackconfig.js | Uses: |
| PostCSS | postcss-loader | postcss-loader | Write Sourcemaps |
| PostCSSPresetENV | postcss-preset-env | postcss-preset-env | Reload Browser |
| CSS | css-loader | css-loader | Minify PNG, JPEG, GIF, SVG |
| MiniCSS | mini-css-extract-plugin | mini-css-extract-plugin | Minify HTML/SVG |
| Babel | babel-loader | babel-loader | No Operation |
| @babel/core | @babel/core | @babel/core | Minify JS |
| @babel/preset-env | @babel/preset-env | @babel/preset-env | Compile SCSS to CSS |
| html-loader | html-loader | html-loader | Add vendor prefixes to css |
| file-loader | file-loader | file-loader | Minify CSS |
| html-webpack-plugin | html-webpack-plugin | html-webpack-plugin | |
| clean-webpack-plugin | clean-webpack-plugin | clean-webpack-plugin | |
| npm install --save-dev webpack webpack-cli webpack-dev-server sass-loader node-sass
css-loader mini-css-extract-plugin @babel/core babel-loader @babel/preset-env html-loader
file-loader html-webpack-plugin clean-webpack-plugin postcss-loader postcss-preset-env | | | |

| Terminal Commands to Remember | |
|-------------------------------|--|
| Command | Use: |
| cd <directory> | change directory |
| pwd | show current directory full path |
| ls | show files in cd |
| clear | clear the terminal but preserve scroll - start fresh in cd |
| npm prune | delete plugins not used in package.json |
| npm start | start watch task/ webpack-dev-server — open
^base on scripts settings in package.json |
| Control C | stop watch task |
| Up Arrow | use last line again |