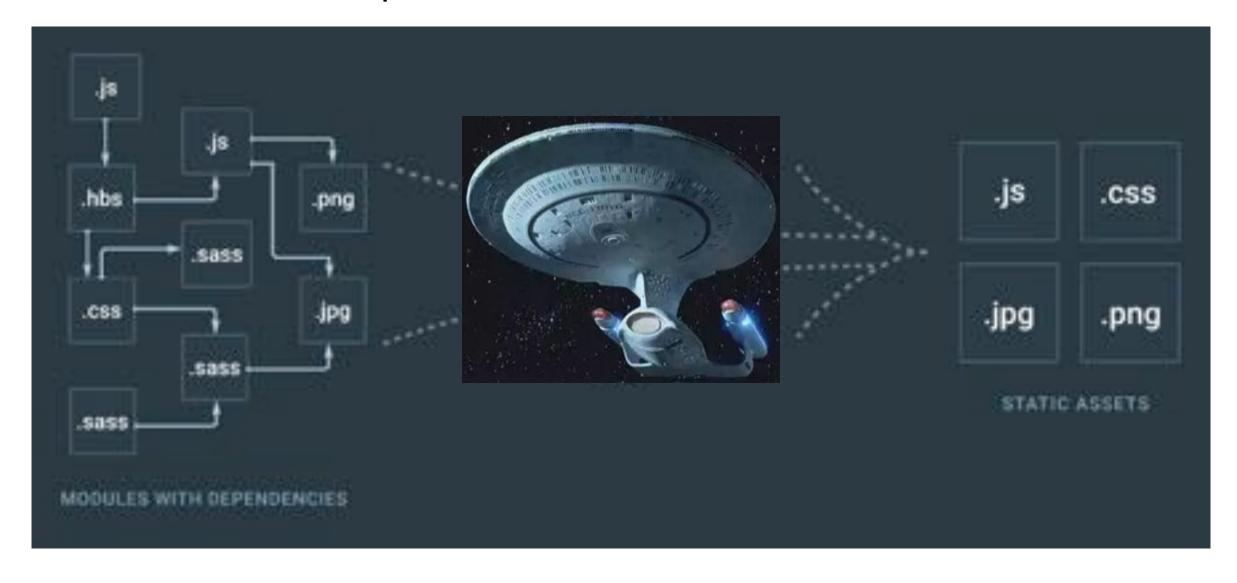


## THE ITEXT GENERATION

Learnings while configuring Webpack for our team

## What is Webpack?



### Why Use Webpack?

- Reduce HTTP request overhead
- Long term caching
- Code splitting
- File Transforms
- All static files are picked up by webpack (js, png, html, css, hbs, etc...)
- Webpack Dev Server
- Provides unparalleled level of automation to your build process



```
plugins: [
    new webpack.optimize.CommonsChunkPlugin({
        names: ['vendor', 'manifest'],
        minChunks: Infinity
    }),
    new HtmlWebpackPlugin({
        template: path join(__dirname, "/public/index.html"),
        chunks: ["vendor", "main", "manifest"] // bundles injected to template
    }),
    new ExtractTextPlugin('[name].[contenthash:5].css')
devServer: {
    contentBase: path.join(__dirname, 'build'),
    port: 3000,
    publicPath: '/',
    setup: function (app) {
        app.get('/api/data', function(req, res) {
            res.json({some: 'data'});
        });
    Ъ,
    stats: {
        chunks: false // gets rid of noisy chunks output
devtool: 'cheap-eval-source-map',
resolve: {
  extensions: ['.js', '.css'],
  alias: {
    mainCSS$: path.resolve(__dirname, 'static-content/css/deep/down/in/folders/main.css')
```



## Four Key Concepts

#### **Entry**

- The root of your application
- Where should webpack start looking for dependencies?

#### **Loaders**

Perform actions
 (transformations) on files of a
 particular type

#### **Output**

- Where should bundled code be emitted?
- What is the bundle's name?

#### **Plugins**

- Perform actions on chunks of your bundled output.
- CommonsChunkPlugin ExtractTextPlugin

## Learning 1: Resolve



Give commonly used module paths an alias

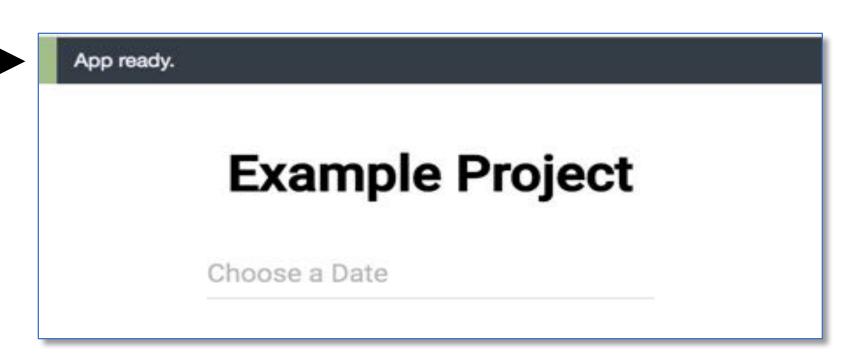
Reduces the occurrence of ../../../folder1/folder2/filename.js
 import pasta in your app

```
resolve: {
   extensions: ['.js', '.css'],
   alias: {
    mainCSS$: path.resolve(__dirname, 'static-content/css/deep/down/in/folders/main.css')
   }
}
```

## Learning 2: webpack-dev-server

- Proxy requests to different domains through webpack-dev-server
  - Avoid CORS warnings on requests

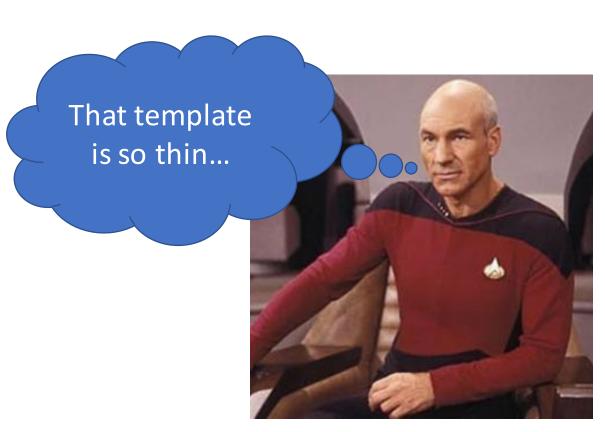
Navigate to base:port/webpack-dev-server/for build status in browser!



## Learning 3: HtmlWebpackPlugin

- HtmlWebpackPlugin injects bundles in to your initial html template!
  - Scripts injected at the end of body, CSS injected in head

```
<!DOCTYPE html>
<html>
    <head>
        <meta charset="utf-8"/>
        <title>Webpack Example</title>
    </head>
    <body>
        <div id="root"></div>
    </body>
```



## Learning 4: manifest chunk

 Webpack was adding manifest map of chunks to bundles to vendor bundle... vendor bundle was changing on every main bundle update

Move manifest to CommonsChunkPlugin, splits it out!

```
Size
                                                    Chunks
                                  Asset
  vendor.5e134b46b174d87a301a.bundle.js
                                                                       [big]
                                           2.78 MB
                                                            [emitted]
                                                                              vendor
    main.e9a81ba52eb8168f3df1.bundle.js
                                                            [emitted]
                                           80.9 kB
                                                                              main
                                                             [emitted]
manifest.70625f8e7535eee0f463.bundle.js
                                           5.93 kB
                                                                              manifest
                             index.html 418 bytes
                                                             [emitted]
Child html-webpack-plugin for "index.html":
                   Size Chunks Chunk Names
    index.html 1.42 MB
webpack: Compiled successfully.
```



# "Talk is cheap... show me the code!"

~Puxuan He

https://github.com/bambielli/webpack-example

## Webpack 2

Released out of beta last February

 No more transpiling ES6 imports to CommonJS

• Tree Shaking – dead code removal

Some breaking changes to the API...



https://webpack.js.org/guides/migrating/

