



Webpack wants  
to be your friend.



Ehh... what?



# Complex tooling.



Complex tooling.  
& [Webpack](#).



# Daví

@davi\_mbatista

# Tooling: Why?

# Tooling: Why?

- Manage assets (images, fonts...)
- Bundling
- Minification (css, javascript, html, images...)
- Local servers and rendering
- Code insights

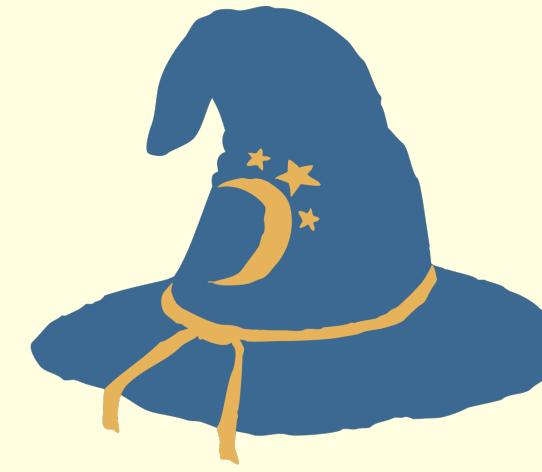
#TBT



npm



REQUIRE.JS  
→



# Feel old yet?

Only 2016 folks will relate...

# What is hot right now?



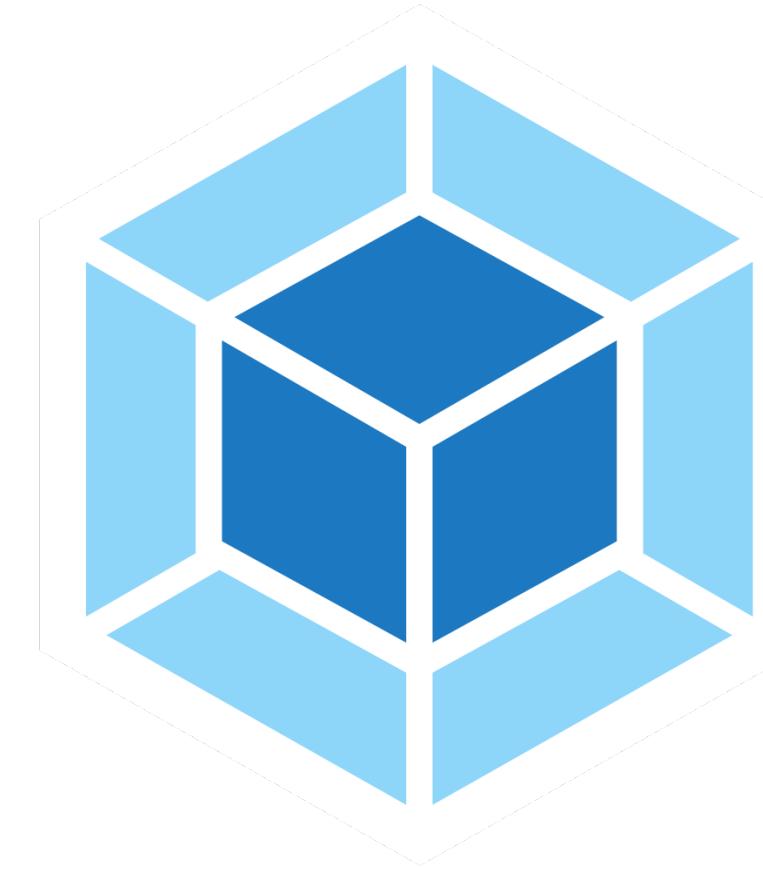
Webpack



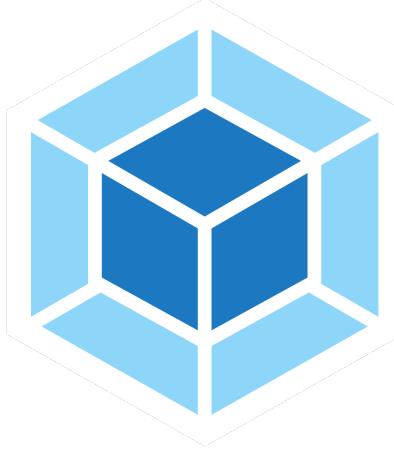
Rollup



Parcel



# webpack



# webpack

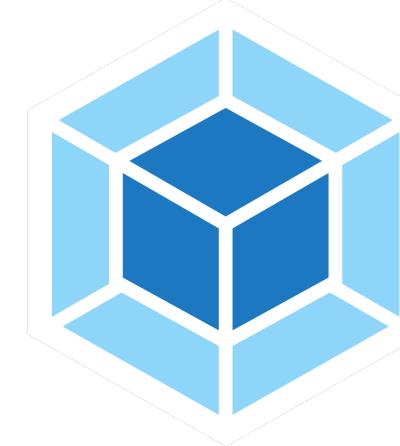
Create React App

Vue-cli

Preact-cli

Storybook

CodeSandbox



Is webpack *that* complex?

It depends...<sup>TM</sup>

```
const HtmlWebpackPlugin = require("html-webpack-plugin");
const CopyWebpackPlugin = require("copy-webpack-plugin");
const webpack = require("webpack");
const path = require("path");
```

```
const PATHS = {
  src: path.join(__dirname, "../src"),
  dist: path.join(__dirname, "../dist")
};
```

```
module.exports = {
  context: __dirname,
  mode: "development",
  entry: {
    app: [PATHS.src]
  },
  output: {
    path: PATHS.dist,
    filename: "[name].js",
    publicPath: "/"
  },
  optimization: {
    runtimeChunk: "single",
    splitChunks: {
      cacheGroups: {
        vendors: {
          test: /[\\/]node_modules[\\/]/,
          name: "vendors",
          enforce: true,
          chunks: "all"
        }
      }
    }
  }
}.
```

```
new CopyWebpackPlugin([
  {
    from: path.join(PATHS.src, "favicon.ico"),
    to: path.join(PATHS.dist, "favicon.ico")
  },
  {
    from: path.join(PATHS.src, "demo/static.js"),
    to: path.join(PATHS.dist, "static.js")
  }
]),
new webpack.DefinePlugin({
  PRODUCTION: JSON.stringify(false),
  VERSION: JSON.stringify("1.2.0"),
  DEBUG: true,
  CODE_FRAGMENT: "80 + 5"
}),
devServer: {
  contentBase: PATHS.dist,
  compress: true,
  headers: {
    "X-Content-Type-Options": "nosniff",
    "X-Frame-Options": "DENY"
  },
  open: true,
  overlay: {
    warnings: true,
    errors: true
  },
  port: 8080,
  publicPath: "http://localhost:8080/",
  hot: true
},
```

# Cognitive overhead



Cognitive Overhead – “How many logical connections or jumps your brain has to make in order to understand or contextualize the thing you’re looking at.”

David Demaree



**HOW ABOUT**

4GIFS.com

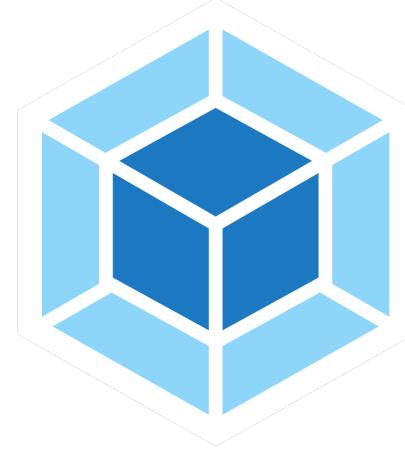
```
module.exports = {  
  mode: "development",  
  entry: "./main.js",  
  output: {  
    path: "dist",  
    filename: "main.bundle.js"  
  }  
};
```

```
{  
  "scripts": {  
    "dev": "webpack --mode development",  
    "build": "webpack --mode production"  
  }  
}
```

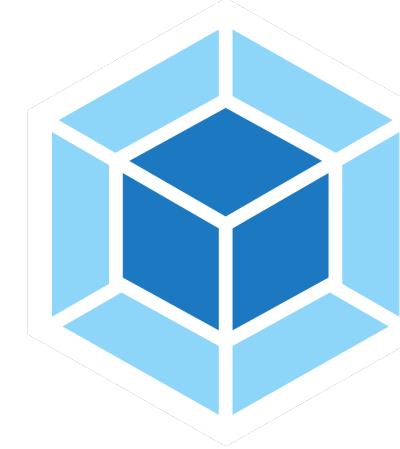
```
import jsxobj from "jsxobj";

const CustomPlugin = config => ({
  ... config,
  name: "custom-plugin"
});

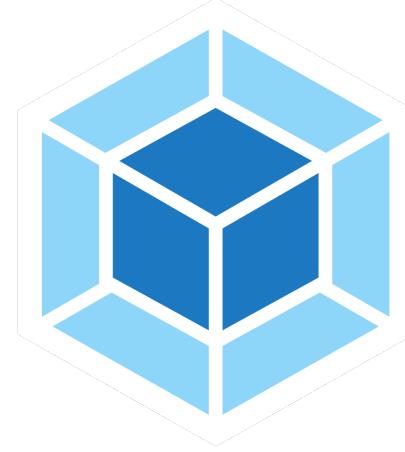
export default (
  <webpack target="web" watch mode="production">
    <entry path="src/index.js" />
    <resolve>
      <alias
        { ... {
          react: "preact-compat",
          "react-dom": "preact-compat"
        } }
      />
    </resolve>
    <plugins>
      <CustomPlugin foo="bar" />
    </plugins>
  </webpack>
);
```



It doesn't need to be one  
single file.



It's just **JavaScript**



# Embracing complexity

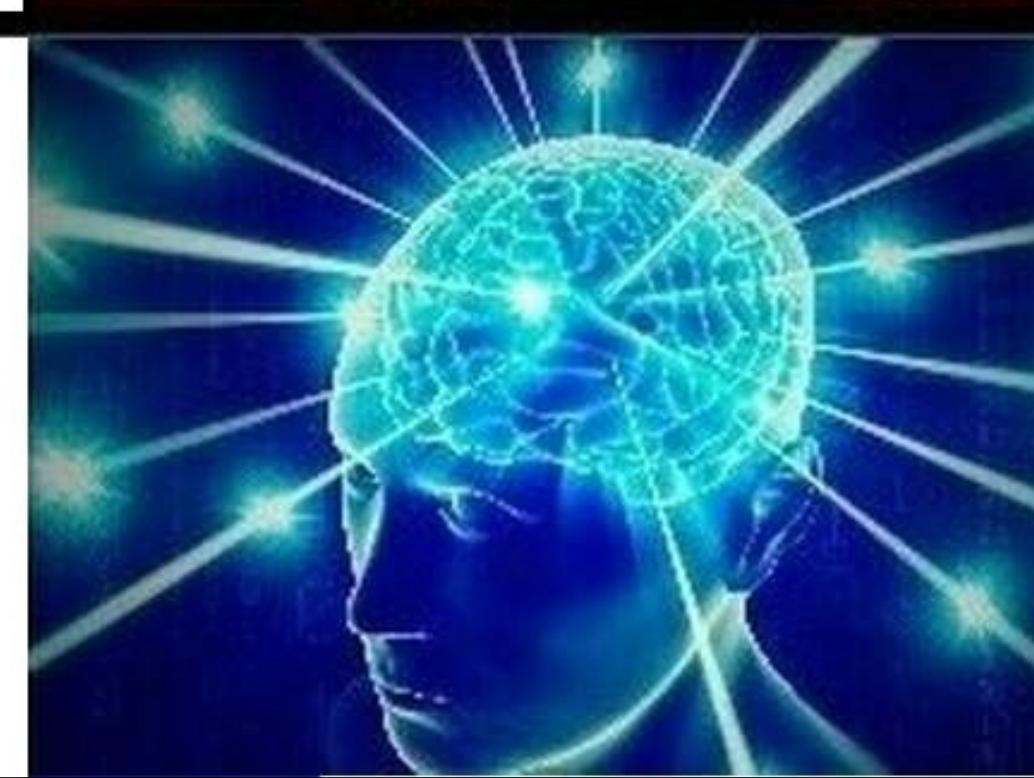


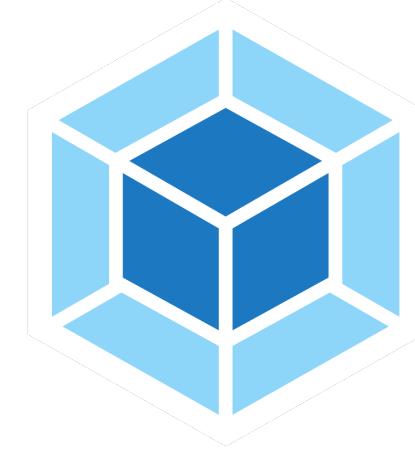
**ONLY  
NPM SCRIPTS**

**TASK  
RUNNERS**

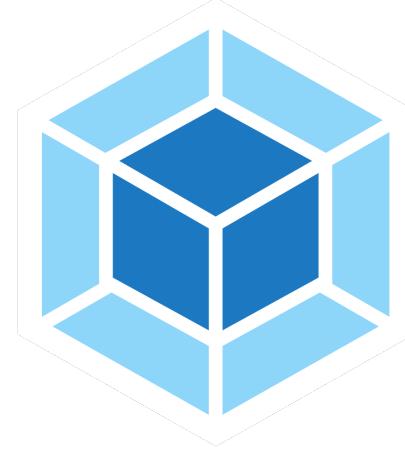
**BUNDLERS**

**DOING  
EVERYTHING MANUALLY**

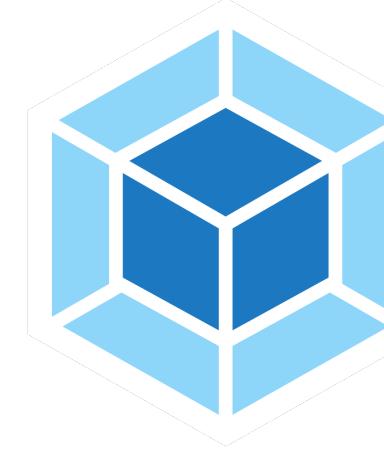




Developer experience  
matters.

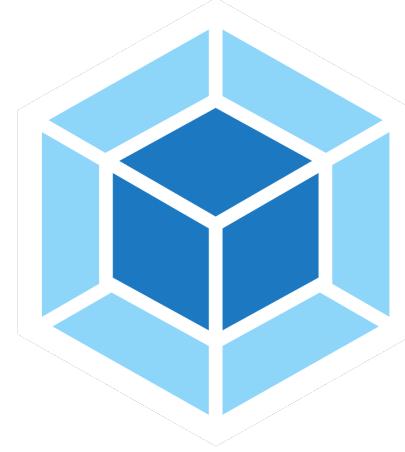


“Zero config” or not.

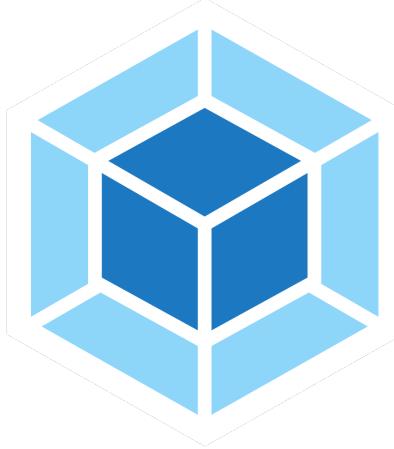


“Our tooling setup is as important as our production code.”

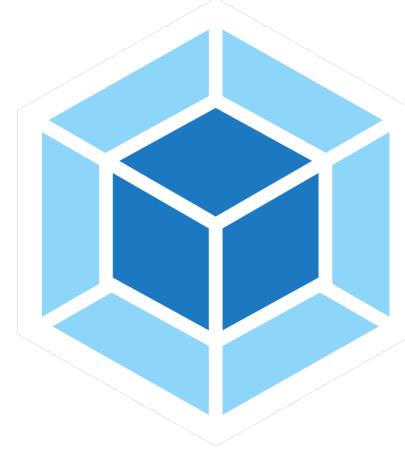
— Me



Web development tooling  
can be complex.



We can grow in the midst  
of complexity 💪



[github.com/davi-mbatista/start](https://github.com/davi-mbatista/start)

Thank you 