The Front End Stack

As of 2019

A quick history lesson

HTML, CSS, and JavaScript throughout the years

HTML (Hypertext Markup Language)

Plain ol' HTML files

Preprocessors (PHP, Jinja2, Handlebars)

HTML-in-JS (JSX, Angular, Vue.js)

CSS (Cascading Style Sheets)

CSS-in-HTML (Inline styles)

External CSS files

Preprocessors (Sass, Less, Stylus)

CSS-in-JS (styled-components, glamor, emotion)

JavaScript (the old parts)

One global scope Namespacing IIFE (Immediately Invoked Function Expression) CommonJS modules (Node.js)

JavaScript (the new parts)

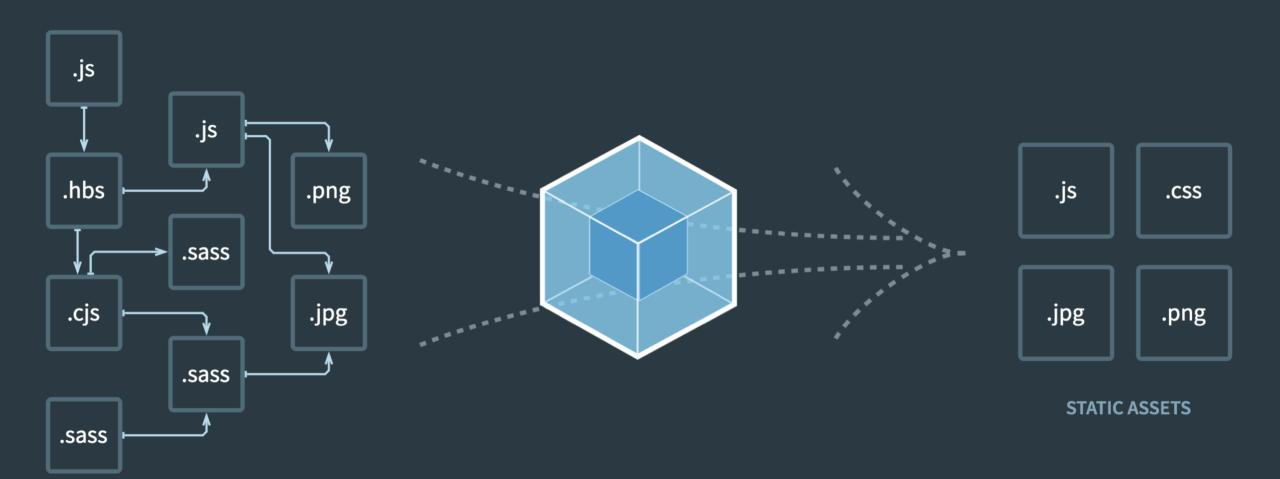
ES6 Modules

Dynamic imports

Entering the almighty webpack

webpack

Putting stuff together (aka module bundler)



MODULES WITH DEPENDENCIES

Babel

Transform something into usable JavaScript (aka compiler)

```
1 function foo () {
                              1 "use strict";
     return 'foo'
                              2
                              3 function classCallCheck(instance, Constructor) {
                                  if (!(instance instanceof Constructor)) {
                              4
                              5
 5 class Bar {
                                    throw new TypeError("Cannot call a class as a function");
     constructor () {
                              6
       this.value = foo()
                              8
                              9 function foo() {
                                  return "foo";
10
                             10
                             11 }
  new Bar()
12
                             12
                             13 var Bar = function Bar() {
                             14
                                  classCallCheck(this, Bar);
                             15
                             16
                                 this.value = foo();
                             17 };
                             18
                             19 new Bar();
                             20
```