Babel and Webpack

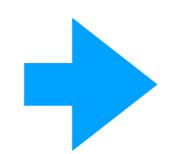
Michael Klishevich Elbrus Bootcamp, 12 nov 2018

Какую задачу решаем?

ECMA Script 2015

Классический JS







Современные







Старые браузеры



http://kangax.github.io/compat-table/es6/

Transpiling | Polyfilling

Feature	Transpiled	Polyfilled	Nope
class	✓		
const and let	✓		
Object rest/spread	✓		
Arrow functions () => {}	✓		
Мар		✓	
Promise		✓	
Fetch		✓	
String.prototype.padEnd()		✓	
Array.prototype.includes()		✓	
URLSearchParams		✓	
requestIdleCallback		✓	
Service Worker			✓
Push API			✓
Bluetooth API			✓
Proxy			✓

https://hackernoon.com/polyfills-everything-you-ever-wanted-to-know-or-maybe-a-bit-less-7c8de164e423

Transpiling

```
1  // ES6
2  const a = 1;
3  let f = (r={}) => r;
4
```



Polyfilling

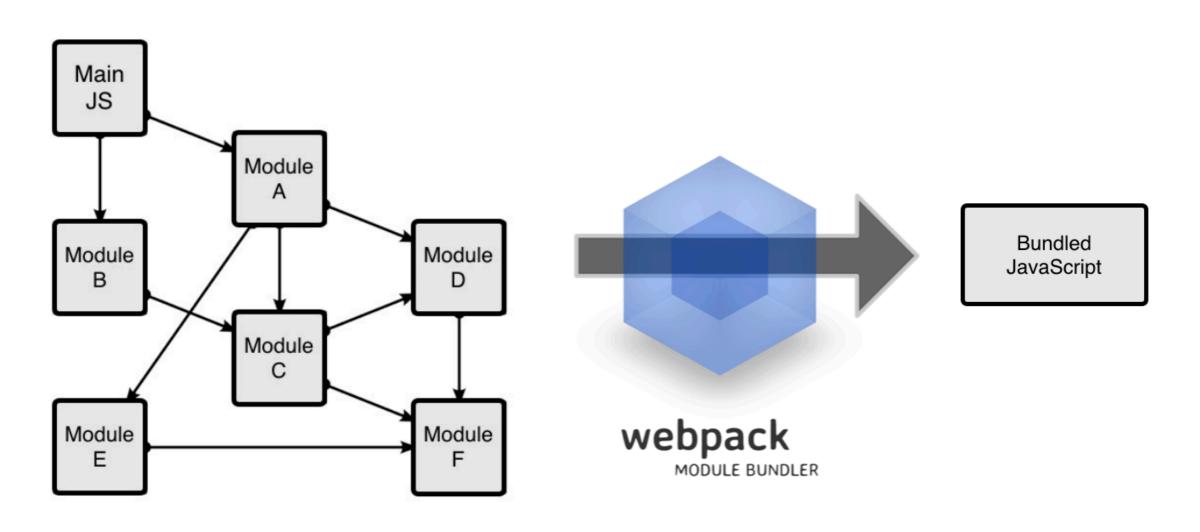
```
1  // ES6
2  [1, 2, 3].includes(2);  // true
3
```



How Babel Works

- npm i babel-cli —save-dev
- .babelrc файл with plugins or presets
- npm script: babel ./src --out-dir .build/

What about Browser? => Webpack



How Webpack Works

- npm i webpack webpack-cli copy-webpack-plugin save-dev
- webpack.config.js файл с конфигурацией
- npm script: webpack --config webpack.config.js -mode development