LEVEL UP YOUR JAVASCRIPT BY CODY BARRUS & RYAN EWING

import / export

- > A NEW WAY TO OBTAIN MODULES
- > LIKE require. BUT NATIVE TO JS
 - > REPLACES COMMONJS
 - > CLEANER SYNTAX

STRICT MODE

WHEN USING THE ES2015 MODULE SYNTAX, STRICT MODE IS TURNED ON BY DEFAULT. THIS MEANS:

- > VARIABLES CAN BE UNDECLARED
- > FUNCTION PARAMETERS MUSH HAVE UNIQUE NAMES
 - > RESERVED WORDS CANNOT BE BOUND

FOR A FULL LIST OF STRICT MODE EFFECTS: HTTPS://
DEVELOPER.MOZILLA.ORG/EN-US/DOCS/WEB/JAVASCRIPT/

EXPORT IN COMMONJS EXPORT BY:

- > module.exports = foo;
- > module.exports = function foo(){};
 - > module.exports = { foo: 'bar' };
 - > module.exports = ['foo', 'bar'];

EXPORTS IN ES2015 THERE ARE TWO KINDS OF EXPORTS IN ES2015

- export
- export default

EXPORT DEFAULT

- export default foo;
- > export default function foo(){};
 - > export default { foo: 'bar' };
- > export default ['foo', 'bar'];

NAMED EXPORTS

- > export var foo;
- > export var foo = function (){};
- > export var foo = { foobar: 'barfoo'}
- > export var foo = ['foobar', 'barfoo']

EXPORTING BINDINGS. NOT VALUES

- > EXPORTED foo VARIABLE IS BOUND TO foo ON THE MODULE
 - > THE VALUE OF foo CAN BE CHANGED (NOT RECOMMENDED)

RENAMING EXPORTS

IF YOU WANT TO RENAME A SOMETHING WHEN YOU EXPORT:

- > export { bond as jamesBond}
- > export { bond as default }

LIMITATIONS

EXPORTS:

- > CAN ONLY BE USED WITHIN THE TOP LEVEL OF YOUR MODULE
 - > CANNOT BE PLACED WITHIN METHODS
 - > ARE LIMITED TO ONE DEFAULT EXPORT PER MODULE

BEST PRACTICES

- > USE export default PRIMARILY
- > PLACE exportS AT THE BOTTOM OF THE FILE (MAKES DISCOVERING EXPORTS EASY)
- > BUNDLE METHODS UNDER EXPORT DEFAULT (ESPECIALLY IF YOU'RE USED TO COMMONJS)

EXAMPLE

```
var bondFacts = {
   isAwesome: true,
   isStillRelevant: 'debatable'
}
export default bondFacts;
```

IMPORTS IN ES2015

- > COUNTERPART TO export
- > THE WAY MODULES ARE LOADED IS IMPLEMENTATION SPECIFIC
- > CURRENTLY, BROWSERS DO NOT SUPPORT import/export WITHOUT A BUNDLER SUCH AS WEBPACK
- > WHEN USED WITH BABEL, importS ARE SUPPORTED BY THE COMMONJS SYSTEM
 - > CAN ONLY BE USED AT THE TOP LEVEL OF YOUR MODULE

IMPORT DEFAULT

COMMONJS

```
var gadgets = require('gadgets');
```

ES2015

```
import gadgets from 'gadgets';
```

IMPORT NAMED EXPORTS

```
import {
  bagpipeFlamethrower,
  falseFingerprints,
  sharkInflatingPellet
} from gadgets;
```

RENAMING NAMED IMPORTS

```
import { ringCamera as justARing } from gadgets;
```

MIX AND MATCH

```
import gadgets, { watchGun as watch, broomRadio } from gadgets;
```

JUST GIVE ME EVERYTHING!

```
import * as gadgets from 'gadgets';
gadgets.robotDog.attack();
```