Part 2

Introduction to ES6

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ES6 (ECMAScript 6)

- Published since june 2015
- Adds significant new syntax for writing complex applications
- Lots of new features

- Classes and modules
- Iterators and for/of loops
- Python-style generators and generator expressions
- Arrow functions
- Binary data

- Typed arrays
- Collections
- Promises
- Number and math enhancements
- Reflection
- Proxies

Today's topic

Arrow functions!

ES5 (default) functions

Looks like:

```
function(name) {
    return "Your name is " + name;
}
```

ES6 Arrow functions

- More concise

- Implicit returns

- Does not rebind "this"

Looks like:

```
(name) => {
    return "Your name is " + name;
}
```

ES6 Arrow functions

Careful!

Arrow functions are <u>always</u> anonymous.

ES6 Arrow functions

More examples!

ES6 Arrow functions

Arrow functions <u>do not</u> rebind the " **this** " variable.

ES6 Arrow functions

Arrow functions allow **default arguments** .

Allows a function to be called without providing one or more trailing arguments.

Default arguments are used in place of the missing trailing arguments in a function call.

ES6 Arrow functions

When not to use arrow functions.

ES6 Arrow functions

When not to use arrow functions.

1. When you really need "this"
2. When you need a method to bind to an object
3. When you need to add a prototype method
4. When you need the "arguments" object

ES6 Arrow functions

An exercise!

Any questions?