CoffeeScript

by sed in a. oruc@callista enterprise.se

Cadec 2013-01-16

Today's Agenda

- Flaws of JavaScript
- Problems addressed by CoffeeScript
- Integrating CoffeeScript into current build
- TDD approach with presence of CoffeeScript

The flaws of JavaScript Global variables:

The with statement:

The flaws of JavaScript Reserved words:

```
const enum class
```

Equality comparisons:

```
"" == "0" // false
0 == "" // true
0 == "0" // true
false == "false" // false
false == "0" // true
false == undefined // false
false == null // false
null == undefined // true
```

The flaws of JavaScript Function definitions:

```
wem();
function wem() {}
```

Is else ever executed?

```
if (true) {
  function declaration() {
    return "first";
  }
} else {
  function declaration() {
    return "second";
  }
} declaration();
```

What is CoffeeScript?

- A language that compiles down to readable JavaScript
- CoffeeScript == Maintainable JavaScript
- The good parts of JavaScript, with a syntax that does not hurt
- CoffeeScript is not abstracting JavaScript away as GWT does

CoffeeScript identifiers

- Indentation sensitive
- Everything is an expression
- String interpolation
- OOP support
- Better functional syntax
- All variables are local
- Intuitive equality check
- No with statement
- Emits readable JavaScript

Let's try some CoffeeScript DEMO

Integrating CoffeeScript into current build

• CoffeeScript with Maven == true

TDD approach with CoffeeScript

- compiled CoffeeScript == JavaScript
- JS-test-framework(s)

Putting it all together DEMO

Conclusions

- CoffeScript gives you this
 - Less boilerplate
 - Better readability
 - Easier maintainability
 - Abstraction over JavaScript flaws
 - Chance to become a better JavaScript developer
- You still need to know JavaScript
 - Debugging
 - Testing

Thank you for listening!