

Jasmine

z Kawą

Biblioteki



Co chcemy osiągnąć

Celem jest zapoznanie się z bibliotekami umożliwiającymi mniej problemowe i bardziej radosne rzeźbienie kodu w JavaScript, w oparciu o metodykę Test Driven Development.



**more
done**



CoffeeScript napisany jest w ... CoffeeScript
za pomocą parsera Jison.

Kompilujemy do JS poprzez NodeJs lub w przeglądarce.
Składnia zbliżona do Ruby.

sudo npm install -g coffee-script

UWAGA! Wcięcia mają znaczenie.



CoffeeScript

Funkcje

```
square = (x) -> x * x
```

```
square = function(x) {  
  return x * x;  
};
```



CoffeeScript

Klasa

```
class RecipeEntry
  @TYP: "meal"
  constructor: (@name) ->

  save: (id) ->
    alert "zostal zapisany wpis typu #{@TYP} o nazwie #{@name}"

  publish: (id) ->
    alert "zostal opublikowany wpis typu #{@TYP} o nazwie #{@name} o id #{id}"

nw = new RecipeEntry "meal1"
nw.TYP = 'meal'
nw.save()
nw.publish(12)
```

```
var RecipeEntry, nw;

RecipeEntry = (function() {
  RecipeEntry.TYP = "meal";

  function RecipeEntry(name) {
    this.name = name;
  }

  RecipeEntry.prototype.save = function(id) {
    return alert("zostal zapisany wpis typu " + this.TYP + " o nazwie " + this.name);
  };

  RecipeEntry.prototype.publish = function(id) {
    return alert("zostal opublikowany wpis typu " + this.TYP + " o nazwie " + this.name + " o id " + id);
  };
  return RecipeEntry;
})();

nw = new RecipeEntry("meal1");
nw.TYP = 'meal';
nw.save();
nw.publish(12);
```



Konkatenacja ciągów i zmiennych

```
author = "Wittgenstein"  
quote  = "A picture is a fact. -- #{ author }"  
  
sentence = "#{ 22 / 7 } is a decent approximation of n"
```

```
var author, quote, sentence;  
author = "Wittgenstein";  
quote  = "A picture is a fact. -- " + author;  
sentence = "" + (22 / 7) + " is a decent approximation of n";
```




CoffeeScript

Instrukcje warunkowe

```
alert "I knew it!" if elvis?
```

```
if (typeof elvis !== "undefined" && elvis !== null) {  
  alert("I knew it!");  
}
```



Instrukcje warunkowe

```
mood = greatlyImproved if singing
```

```
if happy and knowsIt  
  clapsHands()  
  chaChaCha()  
else  
  showIt()
```

```
date = if friday then sue else jill
```

```
var date, mood;
```

```
if (singing) {  
  mood = greatlyImproved;  
}
```

```
if (happy && knowsIt) {  
  clapsHands();  
  chaChaCha();  
} else {  
  showIt();  
}
```

```
date = friday ? sue : jill;
```



CoffeeScript

Peñle

```
eat food for food in ['toast', 'cheese', 'wine']
```

```
foods = ['broccoli', 'spinach', 'chocolate']  
eat food for food in foods when food isnt 'chocolate'
```

```
var courses, dish, food, foods, i, _i, _j, _k, _len, _len1,  
_len2, _ref;
```

```
_ref = ['toast', 'cheese', 'wine'];  
for (_i = 0, _len = _ref.length; _i < _len; _i++) {  
  food = _ref[_i];  
  eat(food);  
}
```

```
foods = ['broccoli', 'spinach', 'chocolate'];
```

```
for (_k = 0, _len2 = foods.length; _k < _len2; _k++) {  
  food = foods[_k];  
  if (food !== 'chocolate') {  
    eat(food);  
  }  
}
```



CoffeeScript

Switch

```
switch day
  when "Mon" then go work
  when "Tue" then go relax
  when "Thu" then go iceFishing
  when "Fri", "Sat"
    if day is bingoDay
      go bingo
      go dancing
  when "Sun" then go church
  else go work
```

```
switch (day) {
  case "Mon":
    go(work);
    break;
  case "Tue":
    go(relax);
    break;
  case "Thu":
    go(iceFishing);
    break;
  case "Fri":
  case "Sat":
    if (day === bingoDay) {
      go(bingo);
      go(dancing);
    }
    break;
  case "Sun":
    go(church);
    break;
  default:
    go(work);
}
```



CoffeeScript

Html

```
html = ""  
  <strong>  
    cup of coffeescript  
  </strong>  
""
```

```
var html;  
  
html = "<strong>\n  cup of coffeescript\n</strong>";
```



CoffeeScript

jQuery

```
#Using $j instead of just $ to be more specific
```

```
$j = jQuery
```

```
#Storing page elements to local variables
```

```
clickme = $j '#ani1_clickme'
```

```
restore = $j '#ani1_restore'
```

```
bar1 = $j '#ani1_bar1'
```

```
bar2 = $j '#ani1_bar2'
```

```
#Cool shortcut, instead of $j(document).ready(function(){
```

```
$j ->
```

```
  clickme.click ->
```

```
    bar1.animate {width:150}, 2000
```

```
    bar2.animate {width:350}, 4000
```

```
  restore.click ->
```

```
    bar1.animate {width:350}, 4000
```

```
    bar2.animate {width:150}, 2000
```



Zalety:

- ☐ mniej kodu
- ☐ kod jest bardziej czytelny

Wady:

- ☐ z powodu braku braces {} kod może stać się nieczytelny
- ☐ trzeba poświęcić na początku czas na naukę składni



Jasmine

```
test = {}
```

```
beforeEach ->
```

```
test.basket = new Basket()
```

```
test.item = new Item 1001, "Macbook Air", "Superb computer", 799
```

```
item2 = new Item 1002, "Magic TrackPad", "Better than a mouse", 50
```

```
test.basket.add item2, 1
```

```
describe "MyBasket Class", ->
```

```
describe "MyBasket", ->
```

```
  it "should be able to add item to a basket", ->
```

```
    # given
```

```
    priorCountVal = test.basket.distinctCount
```

```
    # when
```

```
    test.basket.add test.item, 1
```

```
    # then
```

```
    expect(test.basket.distinctCount).toEqual priorCountVal + 1
```




Jasmine

it "should be able to update quantity when adding an item already in the basket", ->

given

priorCountVal = test.basket.getQuantity(1001)

when

test.basket.add test.item, 1

then

expect(test.basket.getQuantity(1001)).toEqual priorCountVal + 1

describe "getSpecificQuantityForItem", ->

it "should be falsy for unknown item", ->

when

spQ4Item = test.basket.getSpecificQuantityForItem 12345

then

expect(spQ4Item).toBeFalsy()

it "should return false if we pass string instead of an item", ->

when

spQ4Item = test.basket.getSpecificQuantityForItem "sfkjshdfkjhsd"

then

expect(spQ4Item).toBeFalsy()

Odnosiniki

CoffeeScript

<http://coffeescript.org>

<http://js2coffee.org>

<http://grails.org/plugin/coffee-asset-pipeline>

<https://efendibooks.com/minibooks/testing-with-coffeescript>

<http://coffeequery.blogspot.com/2012/01/lesson-1-jquery-animations-are.html>

<http://coffeescriptcookbook.com>

Jasmine

<http://jasmine.github.io>

http://coffeescriptcookbook.com/chapters/testing/testing_with_jasmine

Karma

<http://karma-runner.github.io>