



Happy Programming with CoffeeScript

高見龍 

# 高見龍

a.k.a Eddie or Aquarianboy

- Live and work in Taipei, Taiwan.
- Serving in my own little tiny company.
- Flash / AS3 / Ruby / Rails / Python programming for living.
- Mac OS user, Objective-C for personal interests.
- Technical Education and Consultant.
- PTT Flash BM (since 2007/4).
- Ruby Certified Programmer (Since 2012/1).
- Adobe Certified Flash Developer (Since 2006/7).
- Linux Professional Institute Certification (Since 2005/3).





# 高見龍

@eddiekao

*Flash/AS3 Developer / iOS & Rails Rookie*

<http://blog.eddie.com.tw/>

Taipei, Taiwan • <http://www.eddie.com.tw/>



# Intro

简介

Popular

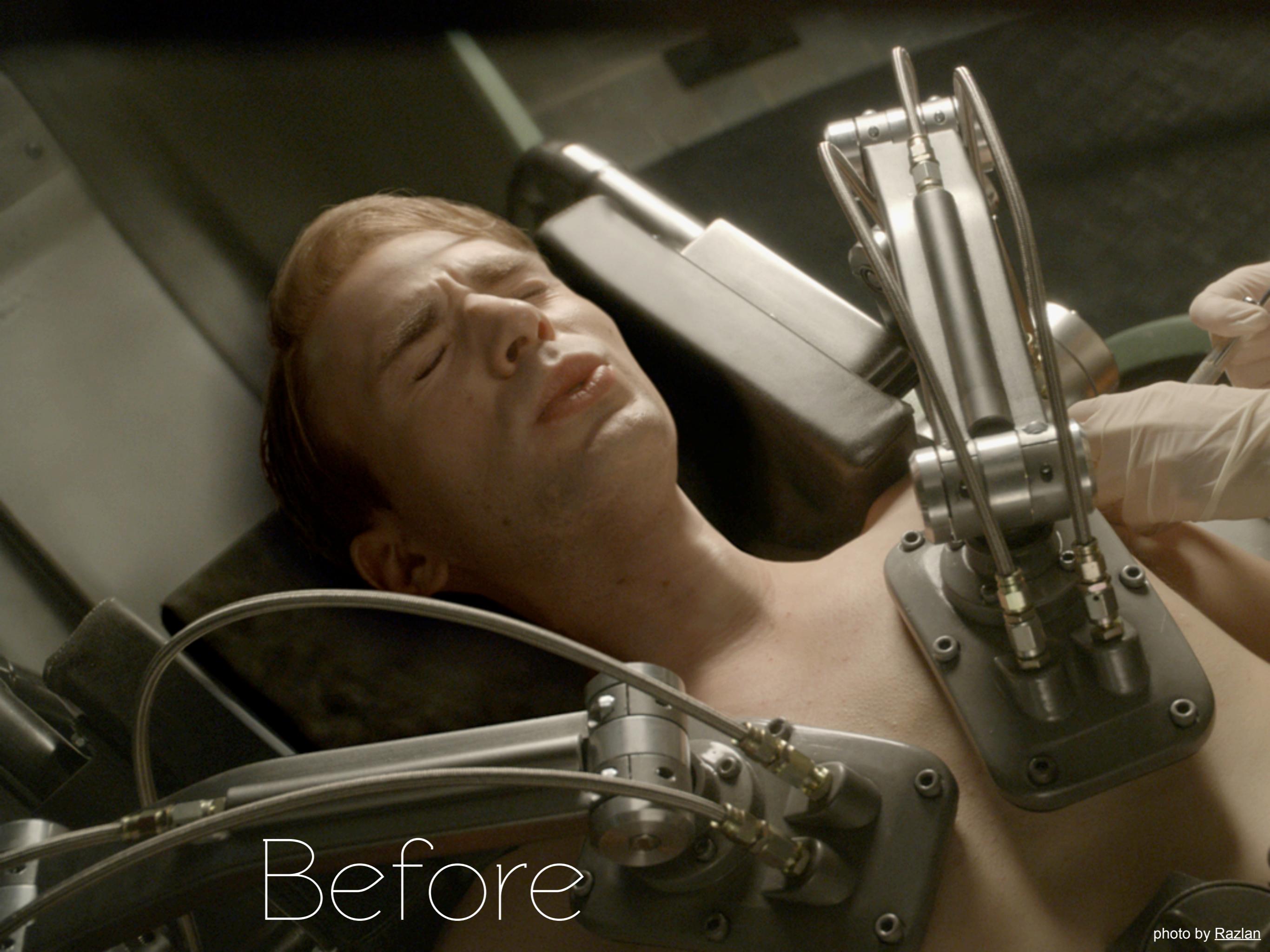
Popular

Powerful

Popular

Powerful

Complicated



Before



Now

A close-up photograph of a single slice of dark chocolate cake on a white plate. The cake has a moist, crumbly texture with visible chocolate chips. It is garnished with several fresh blueberries scattered around the base. The plate is set against a light-colored wooden background.

seems  
easy



photo by Marcus Q

Today, I am going to tell you..

# Happy

快樂

We're not  
talking  
about this  
kind of  
coffee.



Not this either.



I have no idea why engineers like using food as their project name.



Jeremy  
Ashkenas

030-functi  
040-literal  
060-signif  
070-postfix  
100-everyt  
110-lexica  
120-switch  
200-string  
205-chain  
210-comp  
220-half-a  
220-splats  
230-existe  
260-classe  
280-patter  
281-fancy  
300-self-c  
underscore

2009/12

and I started to use  
CoffeeScript since 2011/5

and I started to use  
CoffeeScript since 2011/5

because of Rails



**Jeremy Ashkenas**

@jashkenas

Following



Excited to learn how many people have 5+ years experience with CoffeeScript on GitHire. Clearly there's much for me to learn from them...

Reply

Retweeted

Favorite

---

50+  
RETWEETS

24  
FAVORITES



7:34 AM - 13 Jan 12 via Twitter for Mac · Embed this Tweet

yet another new language !?



**CoffeeScript is a little language that compiles into JavaScript.** Underneath braces and semicolons, JavaScript has always had a gorgeous object model and CoffeeScript is an attempt to expose the good parts of JavaScript in a simple way.

The golden rule of CoffeeScript is: "*It's just JavaScript*". The code compiles on-the-fly to equivalent JS, and there is no interpretation at runtime. You can use any existing tool that passes through [JavaScript Lint](#) without warnings, will work in every JavaScript environment, and will run as fast or faster than the equivalent handwritten JavaScript.

**Latest Version:** [1.3.3](#)

"It's just JavaScript"

just written in different syntax

borrowed from  
Python, Ruby and Haskell.

and would be compiled into  
JavaScript code

JSLint Compatible

So, it's still Javascript

"hmm.."

"It's just JavaScript"

~~"It's just JavaScript"~~

"I think it's just CoffeeScript"

whatever..

WTH can you do with  
CoffeeScript?

anything which JavaScript can do.

front-end, back-end, mobile.. etc.

but with less line of code..  
~ 30% off

CoffeeScript compiler is written in  
CoffeeScript



Is  
JavaScript  
that  
bad?



the good parts

CoffeeScript =  
English-like grammar +  
nice Syntactic Sugar +  
Goodies

# Syntax

語法

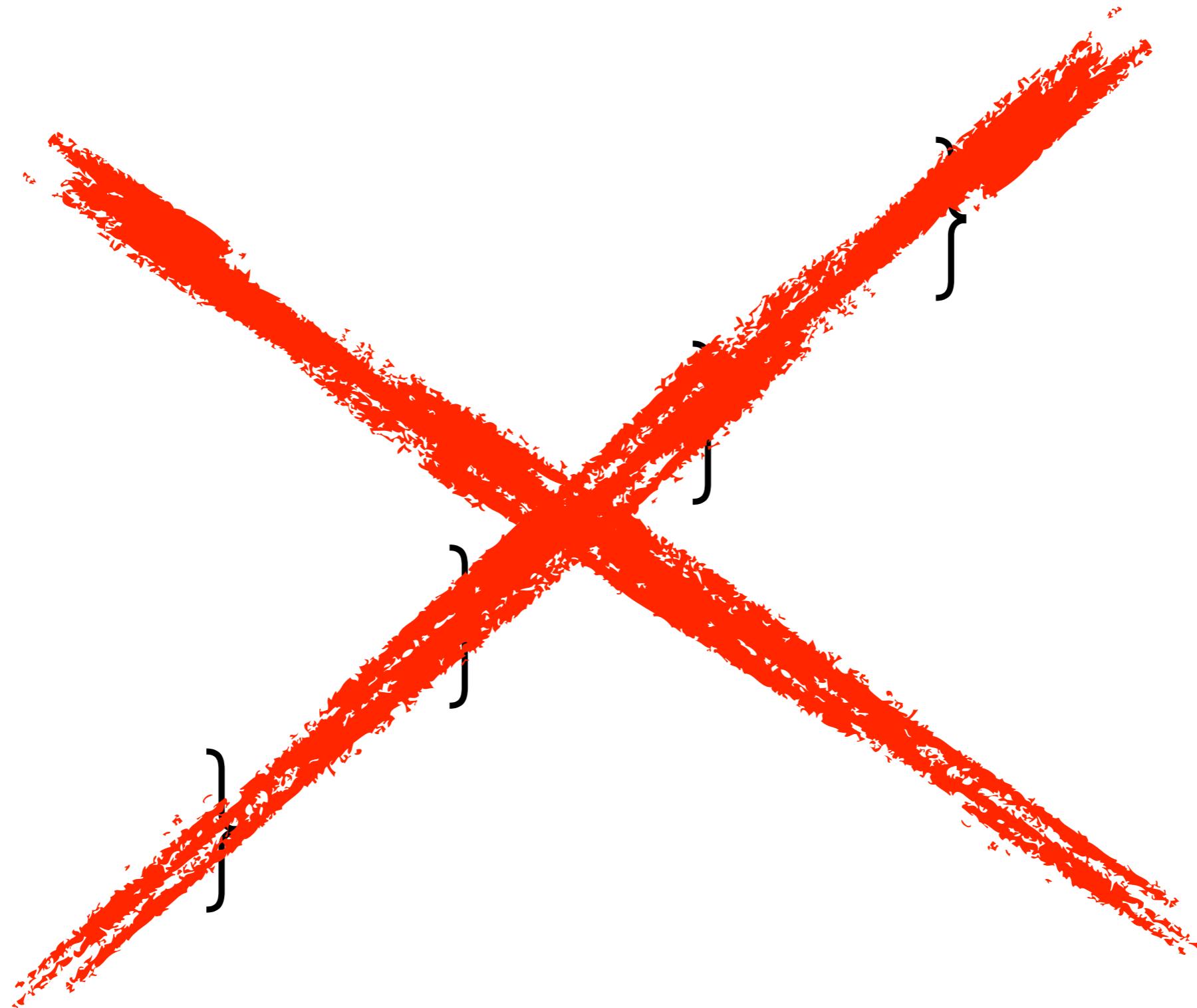
indentations rule,  
whitespace matters!

}

}

}

}





# String Interpolation

```
greeting = "hi, " + name + ", " + msg
```

```
greeting = "hi, #{name}, #{msg}"
```

semicolon

~~SECRET~~

var



->

```
say_hello = (msg) ->  
  console.log "hello, JSDC"
```

```
var say_hello;  
say_hello = function(msg) {  
    return console.log("hello, JSDC");  
};
```

default parameter

```
say_something = (msg = "JSDC") ->  
  console.log "say #{msg}"
```

```
var say_something;
```

```
say_something = function(msg) {  
    if (msg == null) {  
        msg = "JSDC";  
    }  
    return console.log("say " + msg);  
};
```

( ) is not always necessary.

```
greeting("eddie", "how are you");
```

greeting "eddie", "how are you"

everything is an expression

return is not necessary.

```
var hello;
```

```
hello = function() {  
    return "hi, JSDC";  
};
```

hello = ->

"hi, JSDC"

Array

```
var a;
```

```
a = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10];
```

a = [1..10]

Loop

console.log i for i in [1..10]

```
var i, _i;  
  
for (_i = 1; _i <= 10; i = ++_i) {  
    console.log(i);  
}
```

```
console.log "YES" if today == 'JSDC'
```

Sugar

yes, no

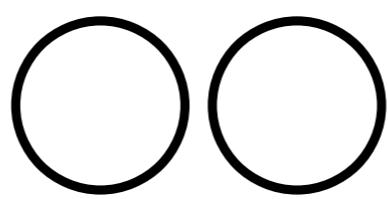
A: “would you marry me?”

B: true

A: “would you marry me?”

B: yes

console.log "go home" if today isnt "JSDC"



```
Hello.prototype.greeting = function(name) {  
    console.log("hi, " + name);  
};
```

```
class Hello  
  greeting: (name) ->  
    console.log "hi, #{name}"
```

```
class Hello
```

```
constructor: (@name) ->
```

```
greeting: (msg) ->
```

```
"hi, #{@name}, #{msg}"
```

```
var Hello;
Hello = (function() {
    Hello.name = 'Hello';
    function Hello(name) {
        this.name = name;
    }
    Hello.prototype.greeting = function(msg) {
        return "hi, " + this.name + ", " + msg;
    };
    return Hello;
})();
```

Diff?

差別?

# **the Original Way**

Your Brain



JavaScript



Browser

# **the CoffeeScript way**

Your Brain



CoffeeScript



JavaScript



Browser



lots of languages that compile to JS

<http://goo.gl/nkAkQ>

# Ref

參考

RTFM, it's awesome!

<http://coffeescript.org/>

or my shameless promotion blog

<http://blog.eddie.com.tw/category/coffeescript/>



Let's get our feet wet!

# demo

展示

But...

巴特..

CoffeeScript is not so perfect

Readability != Comprehension

People may still write  
CoffeeScript as horribly as they  
wrote JavaScript..

indentations rule,  
whitespace matters!

( ) is not always necessary.

Debugging tool?

You've better have a human  
CoffeeScript compiler in your head!

Then...

然後..

CoffeeScript is not used to replace  
JavaScript.

If you don't know Javascript, and  
you think CoffeeScript can save  
your life..

you would be in trouble.

So...

所以..

Who is using CoffeeScript?

actually, I don't really care!

Who won't need this?

People who don't like CoffeeScript.

People who already know  
javascript(the good parts) very  
well.

Who might need/like this?

someone who don't like ;

someone who don't like { }

someone who don't like the  
PROTOTYPE.

Rails developer

# Anyway

總之

Should I learn CoffeeScript?

Is it worth it?

MHO

拙見

You should..

learn JavaScript!

learn JavaScript!

learn JavaScript!

learn JavaScript!

.. and use CoffeeScript !

totally worth it!

I can't go back  
anymore!

give it a try

Happy?

快樂？

END

結束

# Contacts

高見龍

- Website <http://www.eddie.com.tw>
- Blog <http://blog.eddie.com.tw>
- Plurk <http://www.plurk.com/aquarianboy>
- Facebook <http://www.facebook.com/eddiekao>
- Google Plus [http://www.eddie.com.tw/+](http://www.eddie.com.tw/)
- Twitter <https://twitter.com/#!/eddiekao>
- Email [eddie@digik.com.tw](mailto:eddie@digik.com.tw)
- Mobile +886-928-617-687

高見龍數位網路有限公司  
Digital Network Ltd.  
電話: 02-2693-9539 網址: [www.digik.com.tw](http://www.digik.com.tw)  
傳真: 02-2693-9539 電子郵件: [eddie@digik.com.tw](mailto:eddie@digik.com.tw)

photo by Eddie