

### Installation

Install NodeJs (<http://nodejs.org/>)

Install npm (nodejs included)

npm install coffee-script -g

### Usage

~\$ coffee            Run CoffeeScript file  
src/file.coffee

~\$ coffee -c -o      Compile files from src to  
output/ src/            output

~\$ coffee -e          Evaluate CoffeeScript  
"console.log 'Hello  
World'"            code

\$ coffee --join       Concatenate the source  
output/all.js --      CoffeeScript before  
compile src/\*.coffee    compiling

~\$ coffee            Start Read-eval-print  
loop

~\$ coffee --output   Watch directory src for  
output/ -cw src/      changes

### Variables

language = 'CoffeeScript'

### ? - Existential Operator

coffee = 'espresso' if morning?

cups = 0; cups ?= 1

sugar = count ? 1

coffee = one?.coffee?().please?.no?.sugar?

### Functions

hello = -> console.log    define function  
"Hello"

hello()                    call function

sum = (a, b) -> a + b      define function  
with args

sum 1, 2                    call function with  
args

sum\_multiply = (a, b) -> [ a    define function  
+ b, a \* b ]

[ sum, multiply ] =            call function  
sum\_multiply 1, 2

### Functions (cont)

myFunc = (param =            define function  
'default') -> console.log    with default param  
param

otherFunc = (first,          define function  
other...) -> console.log  
other

otherFunc myArray...        call function with  
array as  
arguments

### Scope

Notice how all of the variable declarations have been pushed up to the top of the closest scope, the first time they appear. outer is not redeclared within the inner function, because it's already in scope; inner within the function, on the other hand, should not be able to change the value of the external variable of the same name, and therefore has a declaration of its own.

### Arrays

array = [1, 2, 3, 4]        Array with numbers from 1  
to 4

array = [1...4]            Array with numbers from 1  
to 3

array = [1..3]            Array with numbers from 1  
to 3

array1 =                    Create new array from  
array[1..3]            three items from array

array[1..3] = [3, 2,        Change three items of  
1]                    array

ground\_coffee.reverse()    Reverse elements in array

Math.max [12, 32,        Max element of array  
11, 67, 1, 3]...

[1, 2, 3].concat [        concatenating arrays  
4, 5, 6]

### Operators and aliases

CoffeeScript	JavaScript
pt	
this, @	this
is	===
isnt	!==
not	!
and	&&
or	
true, yes, on	true
false, no, off	false
of	in
in	find element in array (No JS equivalent)



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