MOBILE APP DEVELOPMENT

Test-Driven Development

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THE OBVIOUS

It is absolutely required to test on a device.

iOS development requires an
iPod Touch/ iPhone/iPad
A Mac/ Hackintosh
iOS Developer Program

CHOICES

NOT FREE

FREE

MobiRuby

ATM,
RUBY GEMS
WILL NOT WORK WITH

What I have tried so far

Corona SDK

Makes you focus on app monetization

Corona SDK for iOS costs

$199/ year

+1

Corona SDK

Advantages

It’s great for beginners

Eighth grader knocks Angry Birds out of the top free spot on the App Store

Corona SDK uses

Fast, simple, efficient

brew install lua

Strings

```
>print(“Welcome to Baguio”)

>print(“Welcome\n\to\nBaguio”)

>print(string.len(“Welcome to Baguio”))

>greeting = “Welcome to Baguio”
>print(string.gsub(greeting, “Baguio”, “BAGUIO”))
```

brew install lua

```
Tables

Arrays

>t = {"Baguio", "Bulacan", "Tarlac", "Manila"}
>for i,v in ipairs(t) do print(i,v) end

Dictionaries

>t = {baguio=”2600”, bulacan=”3017”}
>for k,v in pairs(t) do print(k,v) end
```

brew install lua

Tables

Tables within a table

```
>t = { {baguio=”2600”, bulacan=”3017”}, {mars=”24600”,
moon=”30170”} }

>print(t[1]["baguio"])
```

Mixed data types including functions

```
>local function hi()
>print(“Hello World”)
>end

>local t = {1, 2, 3, hi, true}
```

-1

Corona SDK

Disadvantages

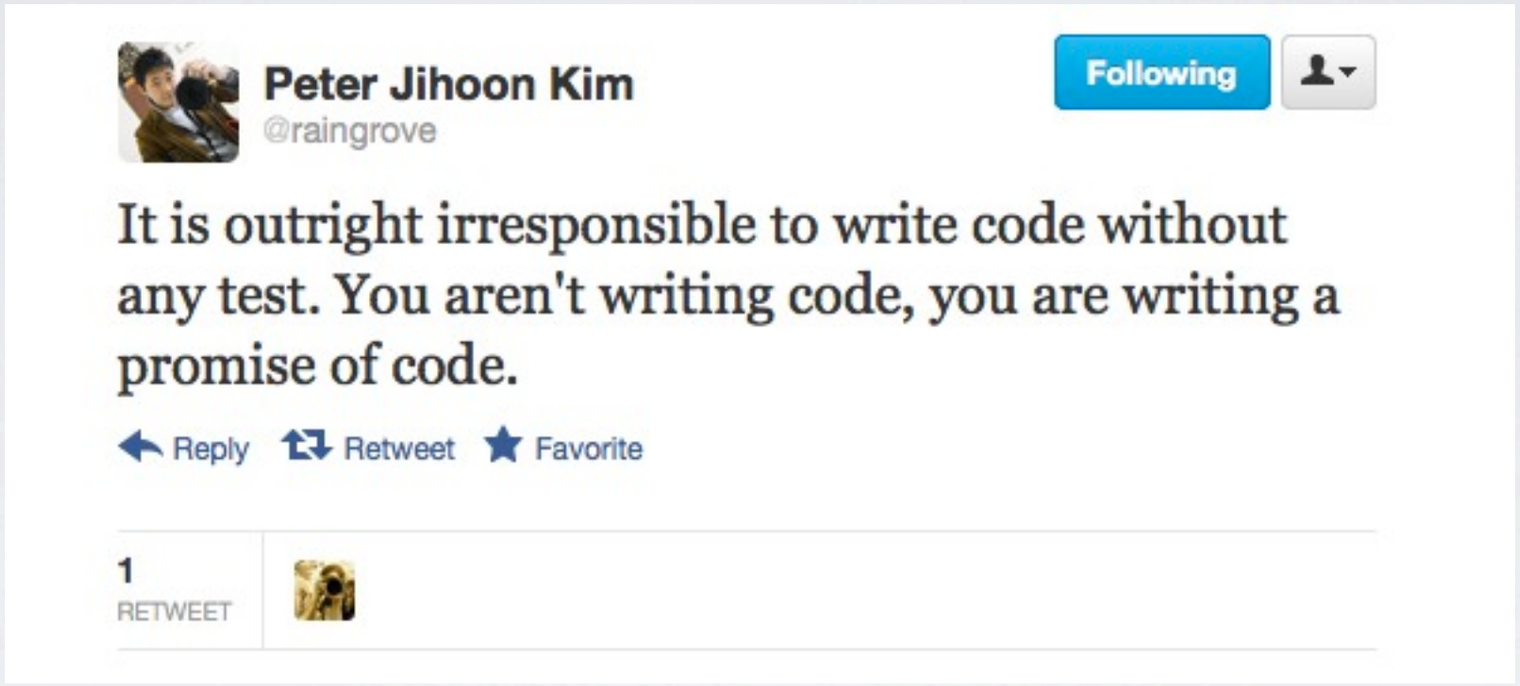
It's NOT open source
& there's not much support
for existing open source
Lua projects

which makes this Corona SDK alternative interesting:

Xcode simulator
is still better.

Test-Driven Development

Code without tests



A promise of code

Unit Tests
Functional Tests
Integration Tests

Automated
On-Device Testing

lua-TestMore

lua-TestMore

```
require('More')

plan(2)

local someValue = 1
local test_count = 0


is(someValue, 1, "someValue should be equal to 1")
test_count = test_count + 1


isnt(someValue, nil)
test_count = test_count + 1

done_testing(test_count)
```

It’s still best to use Objective-C

Because of Community Support

What TDD/BDD frameworks are worth trying out?

If you are a Rubyist,
you probably know

For mobile app developers who like Cucumber:

Calabash

www.github.com/calabash

Other TDD/ BDD frameworks:

Specta

www.github.com/petejkim/specta

KIF

www.github.com/square/KIF