

RubyMotion



by @FredericJacobs

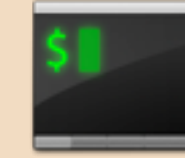
***Getting the bias
out of the way***



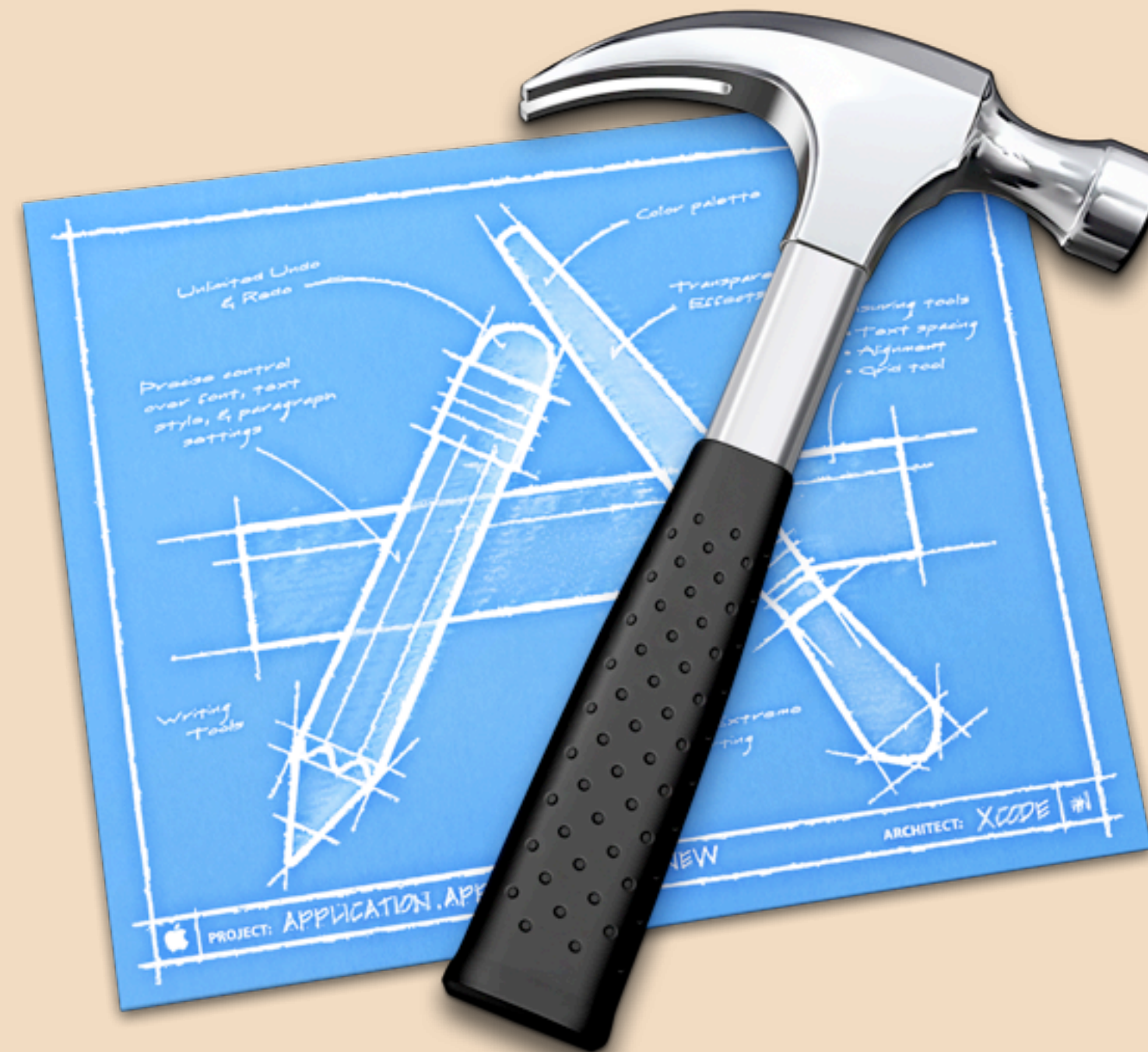
RubyMotion

from an
Objective-C
Developer
Perspective





Requirements





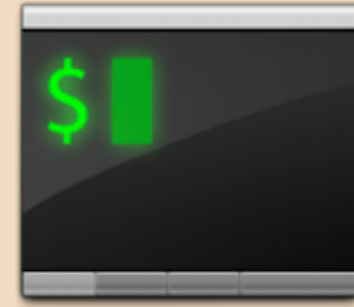
Requirements





Requirements





Requirements





Requirements



What is
RubyMotion not ?

What is
RubyMotion ?

iOS SDK

Foundation Framework

Objective-C Runtime

Objective-C

iOS SDK

Foundation Framework

Objective-C Runtime

RubyMotion

Objective-C

FAST



**Wait, how can that
possibly work?**

THE MAN

@lrz



Laurent Sansonetti

THE MAN

@lrz

Mac OS X

RubyMotion

GNOME

7 years of experience
at Apple



MacRuby

IDA Pro

iLife

RubyCocoa

Laurent Sansonetti

Smalltalk

Smalltalk



```
graph TD; Smalltalk --> Objective-C; Smalltalk --> Ruby["Ruby(Motion)"]
```

Objective-C

Ruby(Motion)

Mixins

Objective-C

- No mixins available in ObjC language
- Runtime Implementation :

```
class_addMethod(Class cls, SEL name, IMP imp, const char *types);
```

Ruby(Motion)

```
module CapitalNames
  def capitalized_name
    name.upcase
  end
end

class User
  include CapitalNames
  def initialize name
    @name = name
  end

  def name
    @name
  end
end
```


Open-Classes

Objective-C

- Objective-C is using “Categories”

- Implementation :

```
@implementation NSNumber (TimeDiff)

- (NSNumber *)days {
    return [NSNumber numberWithInt:[self intValue] * 24 * 60 * 60];
}

- (NSDate *)ago {
    return [NSDate dateWithTimeIntervalSinceNow:[self intValue]];
}

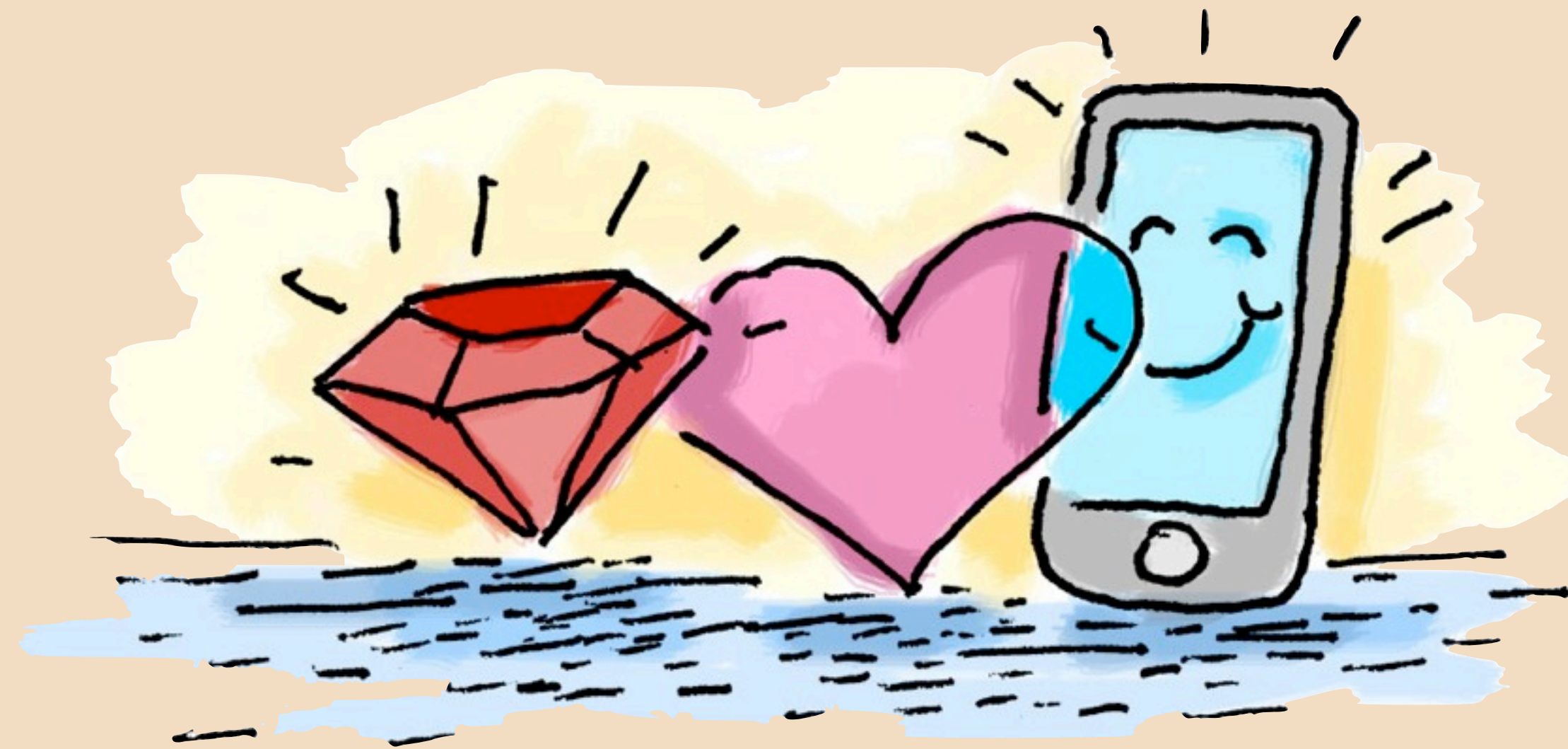
@end
```

Ruby(Motion)

```
class Fixnum
  def days
    self * 24 * 60 * 60
  end
  def ago
    Time.now - self
  end
end
```

So why RubyMotion ?

You Love Ruby



Well, now Ruby loves iOS

Ruby way of doing things

Objective-C

```
NSFileManager *mgr = [NSFileManager defaultManager];
NSArray *paths = [mgr contentsOfDirectoryAtPath:@" /etc"
                    error:nil];

[paths enumerateObjectsUsingBlock:^(id obj, ...) {
    NSLog(@"%@", obj);
}];
```

Ruby(Motion)

```
Dir[" /etc"].each do |name|
    puts name
end
```




Keep your tools





Command Line Debugging

Documentation

But how to deal with Objective-C weirdness ?

Objective-C

```
[string drawAtPoint:point withFont:font];
```

Ruby(Motion)

```
string.drawAtPoint(point, withFont:font)
```


Demo Time

You're not alone

Wrappers

Especially BubbleWrap



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