http://github.com/reborg/talk-macruby



Ruby I.9 on Objective-C runtime

Primitive Ruby classes

Core Foundations & Cocoa equivalents

convenience, efficiency, flexibility, performance over RubyCocoa

```
reborg:scripts reborg$ macirb
irb(main):001:0> hello = "hello"
=> "hello"
irb(main):002:0> hello.class
=> NSMutableString
```

```
static VALUE
str_alloc(VALUE klass) {
    VALUE str;
    str = (VALUE)CFStringCreateMutable(NULL, 0);
    if (klass != 0
    && klass != rb_cNSString
    && klass != rb_cNSMutableString
    && klass != rb_cSymbol)
    *(Class *)str = (Class)klass;
    CFMakeCollectable((CFTypeRef)str);
    return (VALUE)str;
}
```

MacRuby recently got a new VM!

http://svn.macosforge.org/repository/ruby/MacRuby/branches/experimental

Compact Ruby-based DSL for UI development by Rich Kilmer

```
require 'hotcocoa'
include HotCocoa
application :name => "Hello ChiRb" do lappl
  app.delegate = self
  window (
    :frame \Rightarrow [500, 300, 200, 100],
    :title => "Hello ChiRb") do Iwinl
    win << button(</pre>
      :title => "Click Me",
      :on_action => lambda do IsenderI
        alert(:message => "Hello ChiRb!")
      end)
    win.will_close { exit }
  end
end
```

command-line: creates rake-enabled skeleton project

Mappings: helpers for most used Cocoa classes. Add your own.

Right now, sources are your docs.

Can be used from XCode but especially useful for programatic UI

Only way I know right now for testingfirst UI under MacRuby

# Pomodoro Technique

"The aim of the Pomodoro Technique is to use time as a valuable ally in accomplishing what we want to do in the way we want to do it, and to enable us to continually improve the way we work or study"

Francesco Cirillo www.pomodorotechnique.com

# Pomodoro Technique

25 + 5 and 4 + 1

The Pomodoro Is Indivisible

If a Pomodoro Begins, It Has to Ring

If More Than 5-7 Pomodoros, Break It Down

If Less Than One Pomodoro, Add It Up

The Next Pomodoro Will Go Better

# Pomodoro Technique

ACTIVITY INVENTORY	Lucy Banks
***	
Answer questions on thermodynamics in Ch 4	2
Repeat laws of thermodynamics out loud to Mark	3
Summarize laws of thermodynamics in writing	3
Call Laura: invite her to the seminar on thermodynamics	
call Mark: give me my laptop back soon!	
Call Andrew: buy tickets to concert?	
Email Nick: how do you do ex. 2. p. 2+?	
***	

то во товау	Rome, 12 July 2006 Lucy Banks Avaílable Pomodoros: 8
Answer questions on thermodynamics in Ch 4	$\times \times$
Repeat laws of thermodynamics out loud to Mark	
Summarize laws of Thermodynamics in writing	$\boxtimes \boxtimes \boxtimes \otimes \bigcirc$

# Ring.....

5 minutes break, deep breath, relax

## Pomodori

HotCocoa based tool for the Pomodoro Technique (PT)

## Pomodori

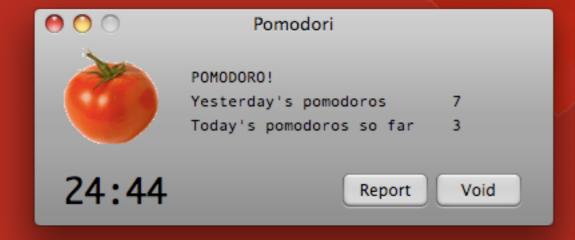
Very simple

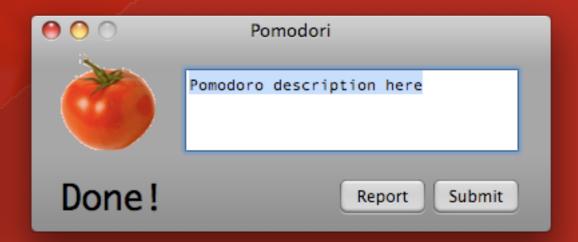
Automatic timers

History

Charts







### Architecture

Strict separation
view logic
workflow logic
business logic

No architecture up-front

TDD => evolved to actual design

## Architecture

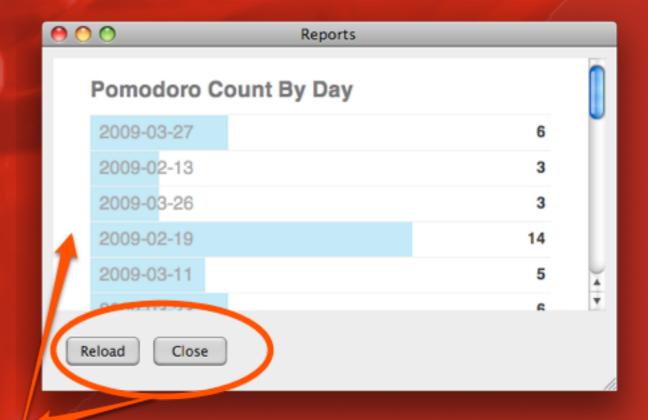
One view, one-many controllers



## Architecture

View Switch: ask related controller





chart\_controller

pom\_by\_count\_model

## TDD HotCocoa

Option #1: pure Ruby with everything (RSpec, Stubba, etc.)

Option #2: MacRuby with limitations (Test::Unit, Mocha and few more)

No options if the target class requires 'hotcocoa'

### View TDD

```
def test_should_go_running_mode_on_init
  @main_view.expects(:running_mode)
  @main_view.send(:initialize)
end
def test_switch_on_input_box
  @main_view.send(:enable_input_box)
  assert_equal(true, @main_view.summary_label.editable?)
  assert_equal("Pomodoro description here",
    @main_view.summary_label.to_s)
end
def test_switch_to_submit_mode
 @main_view.expects(:enable_input_box)
 @main_view.submit_mode
  assert_equal("Submit", @main_view.modal_button.title)
end
```

### Controller TDD

```
def setup
  @main_view = stub_everything
  @modal_button_controller = ModalButtonController.new()
    :main_view => @main_view)
end
def test_should_switch_to_break_on_submit
  when_goes_into_break_mode(:on_click_submit)
end
def when_goes_into_break_mode(action)
  @main_view.expects(:break_mode)
  @main_view.expects(:update_modal_button_action).with do Ia_blockI
    assert_match(/on_click_restart/, a_block.name)
  end
  @main_view.expects(:update_modal_button_label).with("Restart")
  @modal_button_controller.send(action, "sender")
end
```

### Conclusions

MacRuby: young, 80% stable, promising

HotCocoa: cool (needs documentation)

Pomodori: the coolest app for the PT:)

PT: see you at Agile 2009

Questions?

### Resources

www.macruby.org - macruby main site

www.pomodorotechnique.com Pomodoro Technique main site

http://reborg.net - my blog often talking about the PT

http://reborg.github.com/pomodori - Pomodori application main site

<u>http://svn.macosforge.org/repository/ruby/MacRuby/branches/</u>
<u>experimental</u> - Laurent Sansonetti's work on the new MacRuby VM

Slides and examples: <a href="http://github.com/reborg/talk-macruby">http://github.com/reborg/talk-macruby</a>