

INTRODUCTION TO RUBY

PETER COOPER

If you get bored...

www.petercooper.co.uk

www.rubyinside.com

www.ruby-lang.org

THE ANECDOTE

THE DOWNSIDES

THE LANGUAGE

THE COMMUNITY

THE LIBRARIES

THE APPLICATIONS

THE IMPLEMENTATIONS

THE QUESTIONS

A portrait of Paul Graham, a man with short brown hair, wearing a dark blue zip-up jacket over an orange collared shirt. He is looking slightly to the right of the camera with a neutral expression. The background is a light-colored wood-paneled wall with recessed lighting.

Paul Graham

THE ANECDOTE

THE DOWNSIDES

THE LANGUAGE

THE COMMUNITY

THE LIBRARIES

THE APPLICATIONS

THE IMPLEMENTATIONS

THE QUESTIONS

THE DOWNSIDES





THE DOWNSIDES

SLOW



THE DOWNSIDES

UNPOPULAR

Java

C

Visual Basic

PHP

C++

Perl

Python

C#

Delphi



Ruby



JavaScript

D

PL/SQL

SAS

COBOL

THE ANECDOTE

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THE APPLICATIONS

THE IMPLEMENTATIONS

THE QUESTIONS

Rubyを 理由

ク応用通信研究所 特別研究員

Matz



Installing Ruby



Mozilla Firefox 3 Beta 4



Address bar containing a search engine icon and a search engine name.



Google



Smart Bookmarks ▾

Dashboard ▾

Sources ▾

M

T

GC

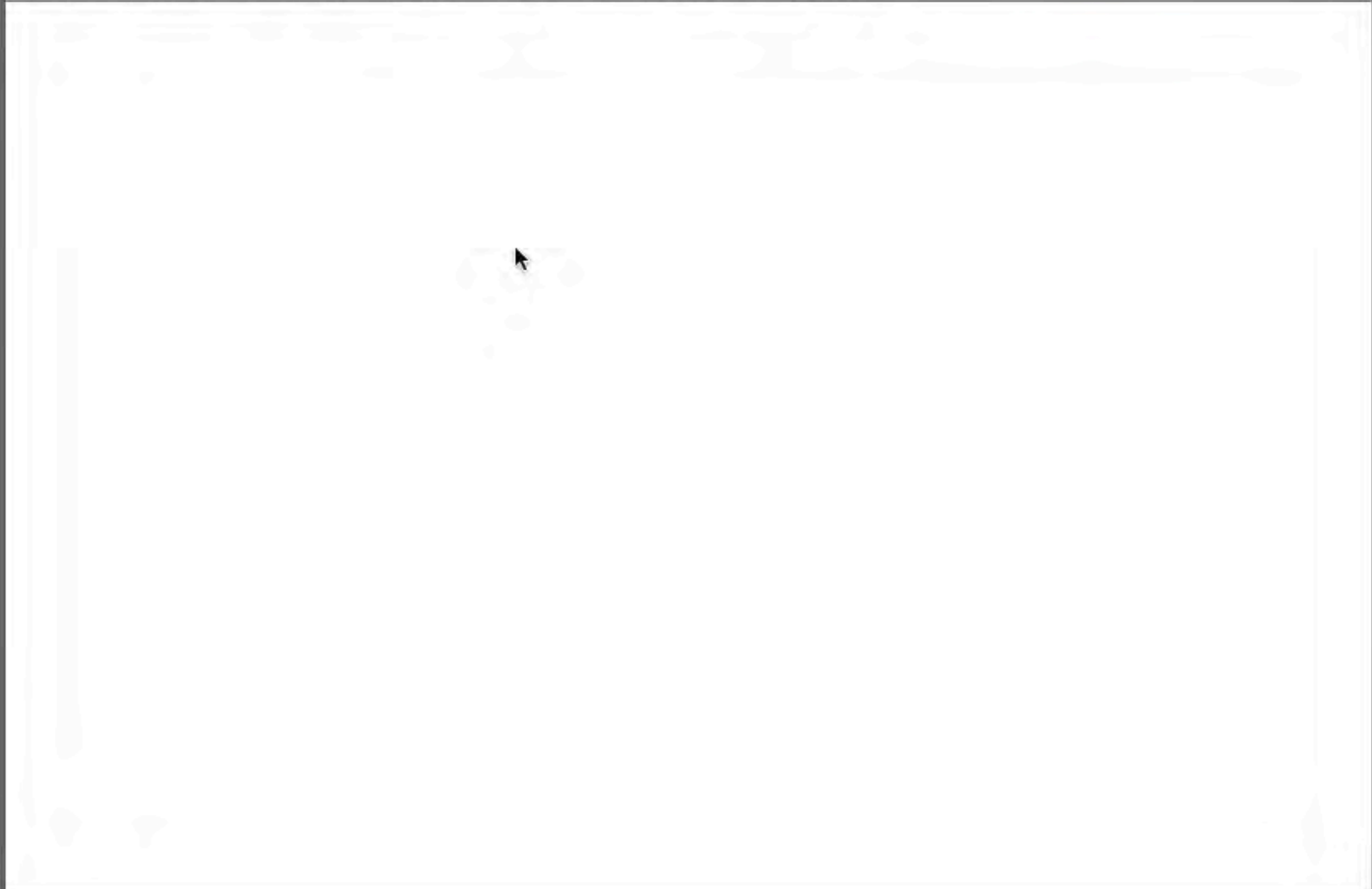
GR

GA

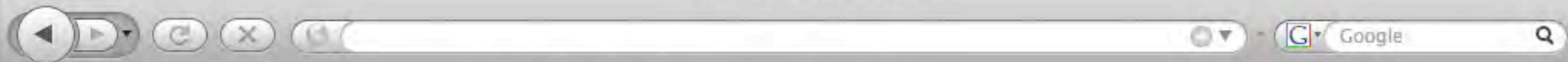
YTMP4

P2D

AW



IRB == Interactive RuBy



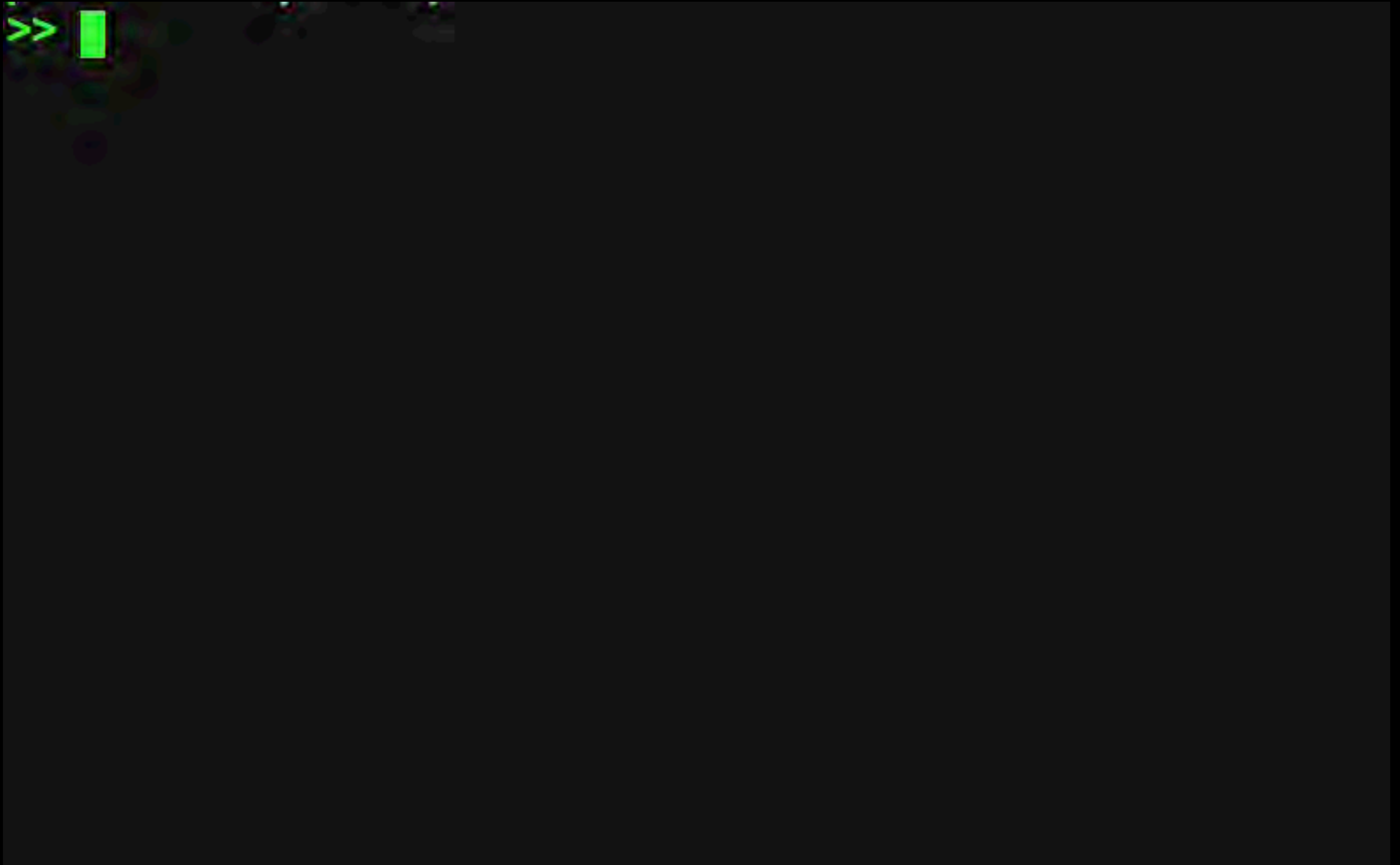
Smart Bookmarks ▾ Dashboard ▾ Sources ▾ M T GC GR GA YTMP4 P2D AW

tryruby.hobix.com

IRB == Interactive RuBy

```
peters-mac-pro:~ peter$ █
```

Expressions



Objects and Methods

```
>> "this is a test".methods
```

```
=> ["%", "select", "[]=", "inspect", "<<", "each_byte", "method", "clone", "gsub",  
"casecmp", "public_methods", "to_str", "partition", "tr_s", "empty?",  
"instance_variable_defined?", "tr!", "gem", "freeze", "equal?", "rstrip", "*",  
"match", "grep", "chomp!", "+", "next!", "swapcase", "ljust", "to_i", "swapcase!",  
"respond_to?", "methods", "upto", "between?", "reject", "sum", "hex", "dup", "insert",  
"reverse!", "chop", "instance_variables", "delete", "dump", "__id__", "tr_s!",  
"concat", "member?", "object_id", "succ", "find", "eql?", "require",  
"each_with_index", "strip!", "id", "rjust", "to_f", "send", "singleton_methods",  
"index", "collect", "oct", "all?", "slice", "taint", "length", "entries", "chomp",  
"instance_variable_get", "frozen?", "upcase", "sub!", "squeeze", "include?",  
"instance_of?", "__send__", "upcase!", "crypt", "delete!", "detect", "to_a", "unpack",  
"zip", "lstrip!", "type", "center", "<", "instance_eval", "protected_methods", "map",  
"<=>", "rindex", "display", "any?", "=="", ">", "split", "==="", "strip", "size",  
"sort", "instance_variable_set", "gsub!", "count", "succ!", "downcase", "min",  
"extend", "kind_of?", "squeeze!", "downcase!", "intern", ">=", "next", "find_all",  
"to_s", "<=", "each_line", "each", "rstrip!", "class", "slice!", "hash", "sub",  
"private_methods", "tainted?", "replace", "inject", "=~", "tr", "reverse", "untaint",  
"nil?", "sort_by", "lstrip", "to_sym", "capitalize", "max", "chop!", "is_a?",  
"capitalize!", "scan", "[]"]
```

Method List

```
fred = { :name => "Fred", :age => 76, :occupation => :janitor }
```

```
fred[:name]  
=> "Fred"
```

```
fred[:age]  
=> 76
```

Hashes and Symbols

```
fred = { :name => "Fred", :age => 76, :occupation => :janitor }
```

```
fred[:name]  
=> "Fred"
```

```
fred[:age]  
=> 76
```

```
people = [ { :name => "Fred", :age => 76 },  
           { :name => "Maggie", :age => 22 },  
           { :name => "Laura", :age => 24 } ]
```

```
people.size  
=> 3
```

```
people[1]  
=> { :name => "Maggie", :age => 22 }
```

Hashes and Symbols


```
names = %w(Fred Bert Laura Gus Waldo)
names.each { |name| puts name }
```

Iterators

```
names = %w(Fred Bert Laura Gus Waldo)
```

```
names.each { |name| puts name }
```

```
Fred  
Bert  
Laura  
Gus  
Waldo
```

Iterators

```
names = %w(Fred Bert Laura Gus Waldo)

names.each do |name|
  puts name
end
```

Iterators

```
1.upto(8) do |i|  
  puts i  
end
```

Iterators


```
1.upto(8) do |i|  
  puts i  
end
```

```
1  
2  
3  
4  
5  
6  
7  
8
```

Iterators

```
[1, 2, 3, 4, 5].map do |number|  
  number * 2  
end
```

=> [2, 4, 6, 8, 10]

Iterators

```
[1, 2, 3, 4, 5].map do |number|  
  number * 2  
end
```

=> [2, 4, 6, 8, 10]

```
[1, 2, 3, 4, 5].map do |number|  
  number.to_s * 2  
end
```

=> ["11", "22", "33", "44", "55"]

Iterators

```
class Person  
end
```

```
me = Person.new  
me.class  
=> Person
```

```
you = Person.new  
you.class  
=> Person
```

Classes

```
class Person
  attr_accessor :name, :age
end
```

```
me = Person.new
me.name = "Peter"
me.age = 26
```

```
fred = Person.new
fred.name = "Fred"
fred.age = 77
```

```
fred.age + me.age
=> 103
```

Classes


```
class Person
  def year_born=(year)
    @age = Time.now.year - year
  end

  def age
    return @age
  end
end

me = Person.new
me.year_born = 1981
me.age
=> 27
```

Classes

```
class Person
  def year_born=(year)
    @age = Time.now.year - year
  end

  def age
    @age
  end
end
```

```
me = Person.new
me.year_born = 1981
me.age
=> 27
```

Classes

```
class Person
  attr_reader :age

  def year_born=(year)
    @age = Time.now.year - year
  end
end
```

```
me = Person.new
me.year_born = 1981
me.age
=> 27
```

Classes



```
require 'rubygems'
require 'png'

def f(x, y)
  ( (x ^ y) & ((y - 350) >> 3) ) ** 2
end

canvas = PNG::Canvas.new(500, 500)

0.upto(499) do |y|
  0.upto(499) do |x|
    if ((f(x, y) >> 12) & 1) == 1
      canvas[x, 499 - y] = PNG::Color::Black
    else
      canvas[x, 499 - y] = PNG::Color::White
    end
  end
end

png = PNG.new(canvas)
png.save 'pattern.png'
```



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end
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```

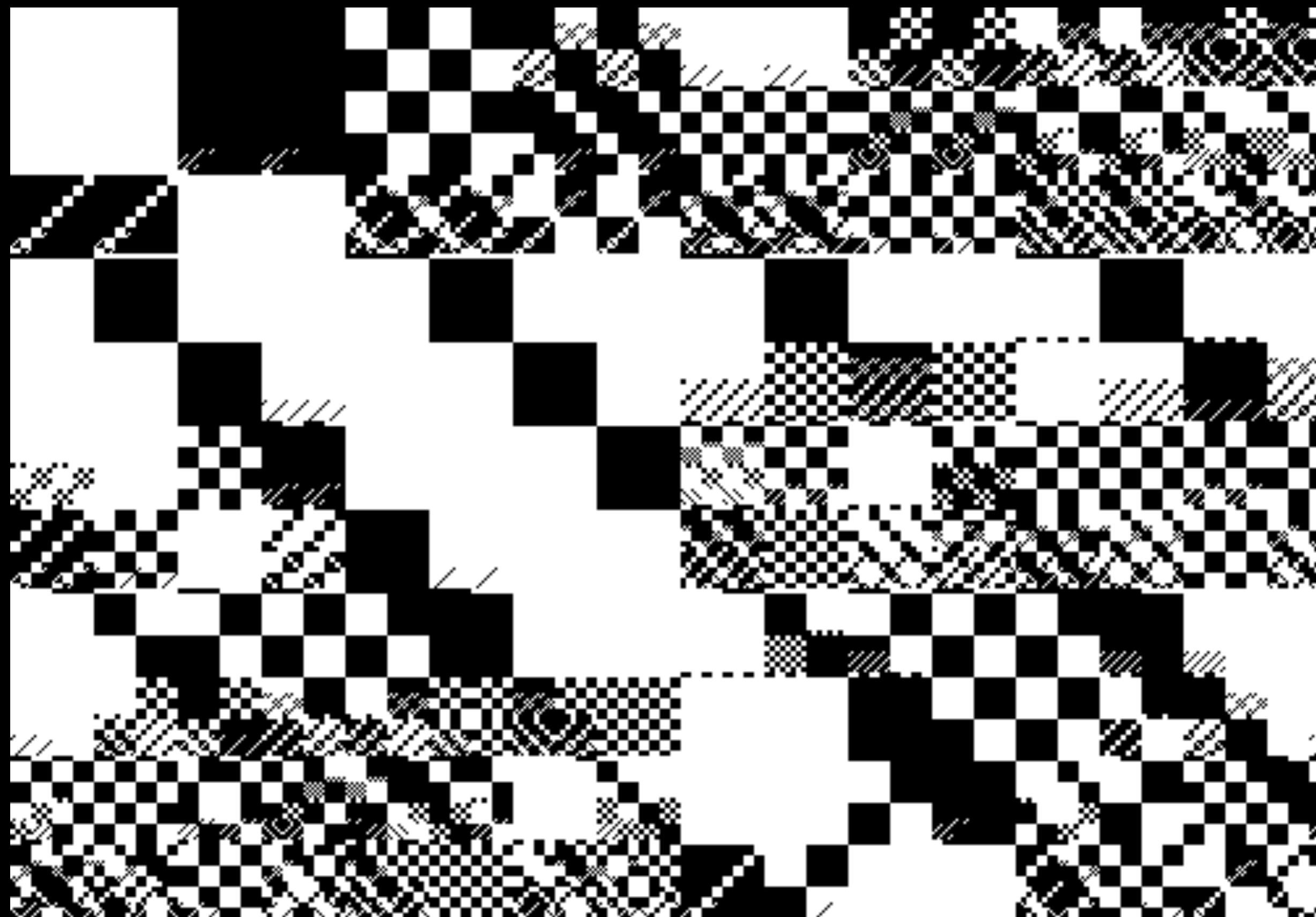
```
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    end
  end
end

png = PNG.new(canvas)
png.save 'pattern.png'
```

<http://www.ruby-lang.org/>

THE ANECDOTE

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THE APPLICATIONS

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THE QUESTIONS

Events



EURUKO2008
European Ruby Conference
Prague, March 29th – 30th



Events

User Groups



Leeds Ruby Thing

LRUG : london **ruby** user group

San Diego Ruby
We are San Diego's Ruby community



pdx.rb

The Portland Ruby Brigade

 **Orlando Ruby Users Group**

nwrug
North West **Ruby** User Group

 **Brighton Ruby**

Copenhagen.rb

User Groups

Books

The
Pragmatic
Programmers

Third Edition
Covers Ruby 1.9

Programming Ruby

The Pragmatic Programmers' Guide



Dave Thomas
with Chad Fowler and Andy Hunt

The Facets  of Ruby Series

Books



Dave Thomas

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Addison-Wesley Professional Ruby Series

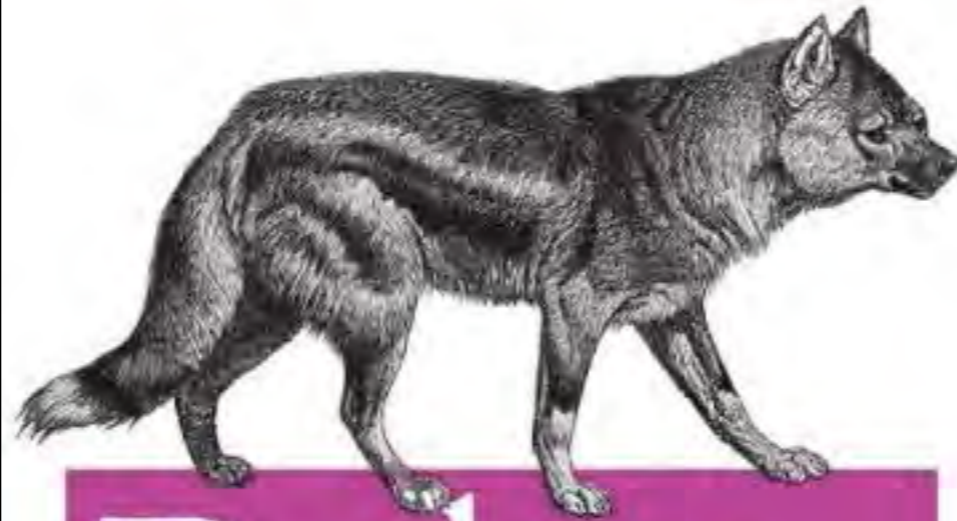


THE RUBY WAY
SECOND EDITION

HAL FULTON
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Books

Recipes for Object Oriented Scripting

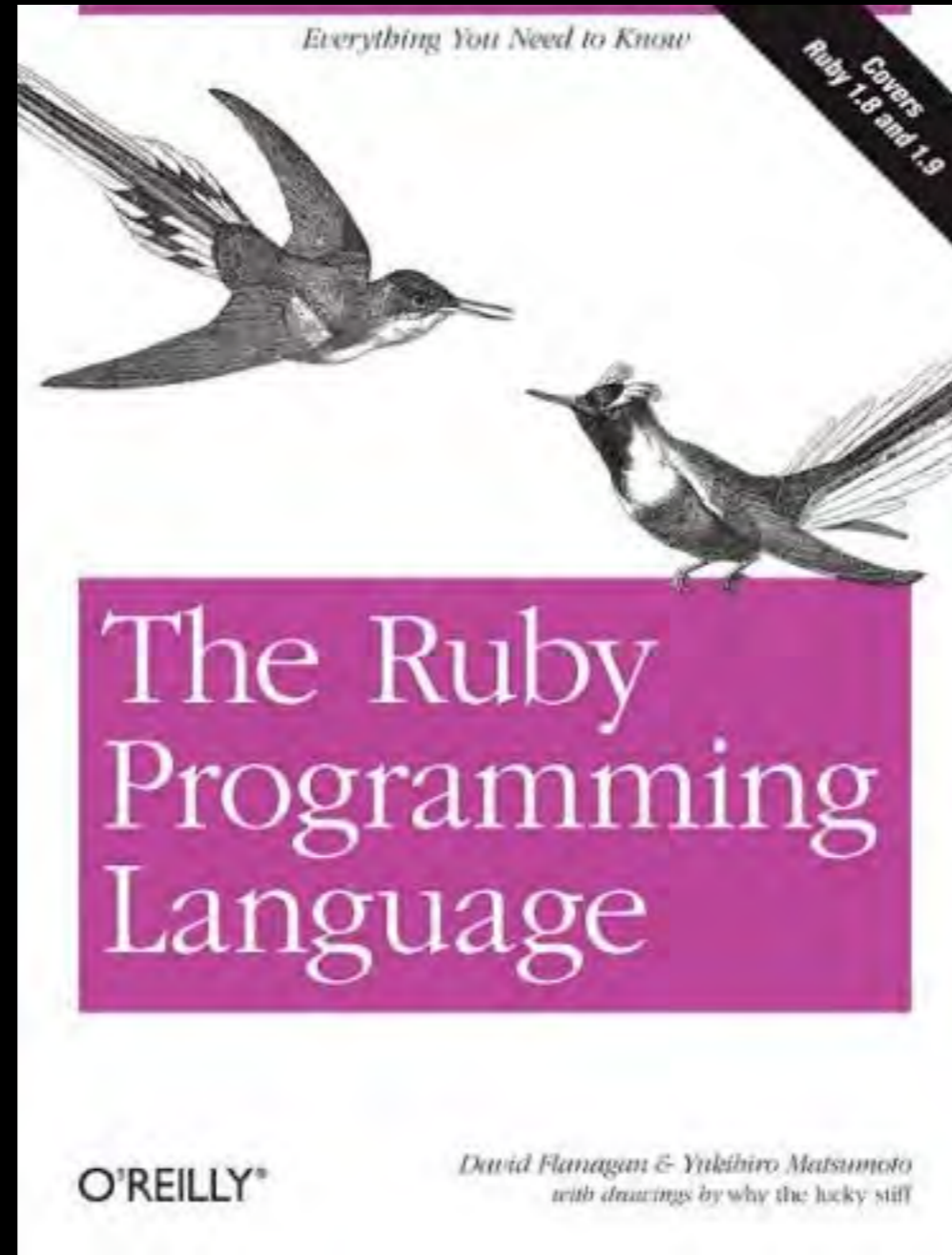


Ruby Cookbook

O'REILLY®

Lucas Carlson & Leonard Richardson

Books

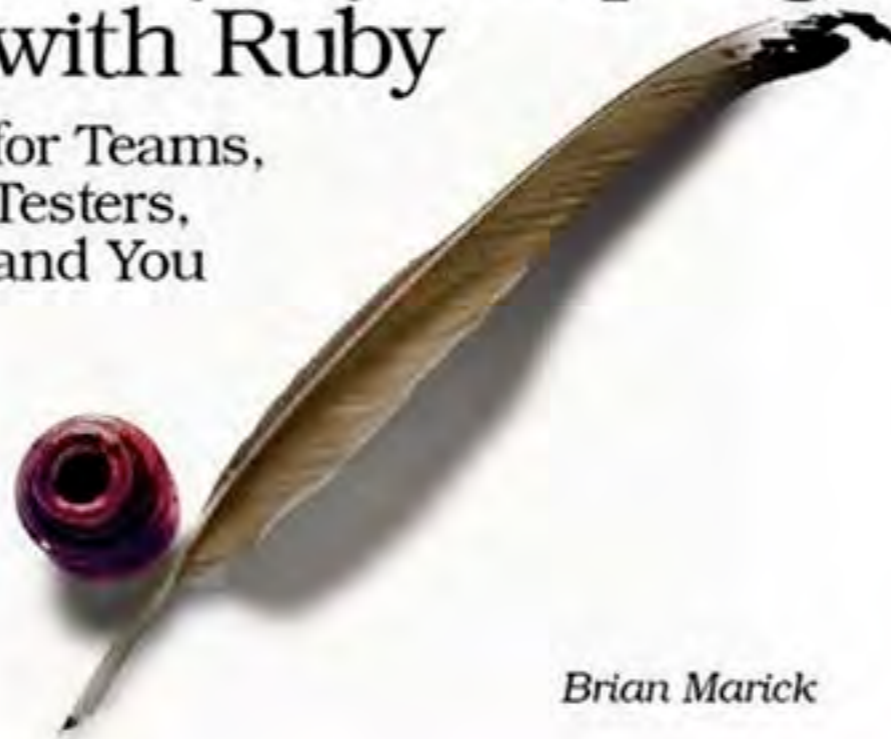


Books

The
Pragmatic
Programmers

Everyday Scripting with Ruby

for Teams,
Testers,
and You



Brian Marick

The Facets  of Ruby Series

Books

Addison-Wesley Professional Ruby Series



DESIGN PATTERNS IN RUBY

Foreword by **Obie Fernandez**
Professional Ruby Series Editor

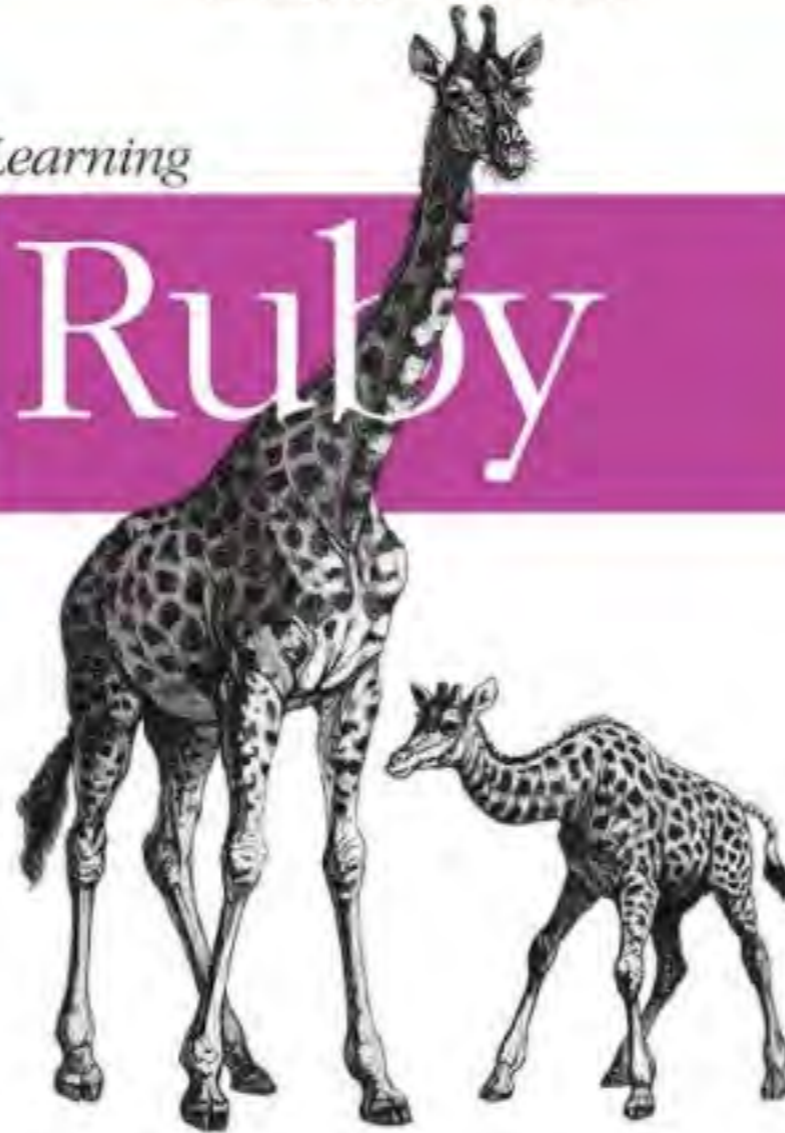
RUSS OLSEN

Books

The Language that Powers Rails

Learning

Ruby



O'REILLY®

Michael Fitzgerald

Books

THE EXPERT'S VOICE® IN OPEN SOURCE

Beginning Ruby

From Novice to Professional

An instructional guide to the Ruby programming language.

Peter Cooper

Foreword by why the lucky stiff

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Studio

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with Dave Thomas and Chad Fowler

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Sapphire - Two New Re-Implementations of Ruby

March 20th, 2008 by Peter Cooper



Rather coincidentally, two different re-implementations of Ruby (a new interpreter and a new language, respectively) with the name of Sapphire have appeared on my radar recently. They're both worth mentioning, so why not put them together?

Sapphire #1 - A Fork of the Official Ruby Interpreter (MRI)

The first **Sapphire** is quite unusually a fork of the official Ruby interpreter

The Rubysphere

Latest Ruby Links

- 03/20 [Rails-based GTD Tool Installs in Minute..](#)
- 03/20 [Ruby 1.1RC3 Released!](#)
- 03/19 [Creating JSF applications with JRuby an..](#)
- 03/19 [Loud By Less](#)
- 03/18 [Rails and Grails comparison](#)
- 03/18 [Yet another trick for Radiant CMS: Reus..](#)
- 03/18 [Single Table Inheritance With Nested Cl..](#)
- 03/18 [An Editor Independent Unittest Executor](#)
- 03/18 [Ruby on Rails: the Duplo generation](#)
- 03/18 [No Borg-like release train for Ruby on ..](#)

Ruby Heroes Sayeth..

[Lookie! Test Status Matrix Thingy!](#)

by [Polishing Ruby](#) @ 03/20

[RubyInline version 3.6.7 has been releas..](#)

by [Polishing Ruby](#) @ 03/20

[ZenTest version 3.9.2 has been released!](#)

by [Polishing Ruby](#) @ 03/20

[rake task to rename views to rails 2.0 f..](#)

by [Code Snippets: ruby code](#) @ 03/20

[A QT 'Hello World' application](#)

by [Code Snippets: ruby code](#) @ 03/19

[For attaching files, use Paperclip](#)

by [GIANT ROBOTS SMASHING INTO OTH..](#) @ 03/18

[Safari 3.1](#)

by [Segment7](#) @ 03/18

[A Glade 'Hello World' application](#)

by [Code Snippets: ruby code](#) @ 03/18

rubycorner.com



Ruby Awesomeness
March 28-29
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505 blogs + forums + mailing lists + ...

Add this search to your browser

What's this?

This is a directory for blogs related to the **Ruby Programming Language** or any of the related technologies and projects around this shining object oriented language. [More info](#) ...

Blogs

Last Updated

Last Registered

Blogs by Language

English (420)

Spanish (49)

Turkish (0)

Last Updated

Mike Does Tech

links for 2008-03-21 


Updated about 2 hours ago • Written in english

Ruby Inside

Sapphire - Two Different, New Re-Implementations of Ruby 

Updated about 3 hours ago • Written in english

Odeley

Don't let anyone take over a user account! 

Updated about 3 hours ago • Written in english

townx

Are "jobs" just disguised RPC in a RESTful application? 

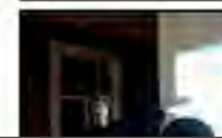
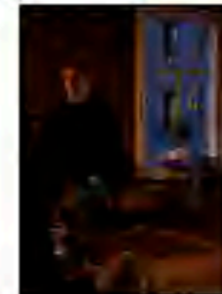
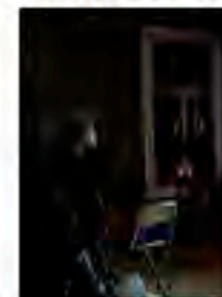
Updated about 5 hours ago • Written in english

Rubyblog.de

RSpactor im Podcast 

Updated about 6 hours ago • Written in german

Latest Photos



peepcode.com

Peep Code

s c r e e n c a s t s

The People

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RUBY GEMS

```
gem install rails
```

```
peters-mac-pro:~ peter$ █
```

Installing a Gem

```
require 'rubygems'  
require 'chronic'
```

```
Time.now
```

```
#=> Tue Apr 01 11:30:00 CET 2008
```

```
Chronic.parse('tomorrow')
```

```
#=> Wed Apr 02 12:00:00 +0100 2008
```

```
Chronic.parse('last monday')
```

```
#=> Mon Mar 31 12:00:00 +0100 2008
```

```
Chronic.parse('next monday at 5pm')
```

```
#=> Mon Apr 7 17:00:00 +0100 2008
```

Using a Gem

```
1 doc = Hpricot(  
    open( "http://redhanded.hobix.com/index.html" )  
)  
  
2 puts doc.search("p").size  
  
3 ( doc / "#sidebar" ).remove  
  
4 puts doc
```

Hpricot

<http://code.whytheluckystiff.net/hpricot>

```
require 'gruff'

g = Gruff::Line.new
g.title = "My Fruity Graph"

g.data("Apples", [1, 2, 3, 4, 4, 3])
g.data("Oranges", [4, 8, 7, 9, 8, 9])
g.data("Peaches", [9, 9, 10, 8, 7, 9])

g.labels = {0 => '2003', 2 => '2005', 4 => '2007'}

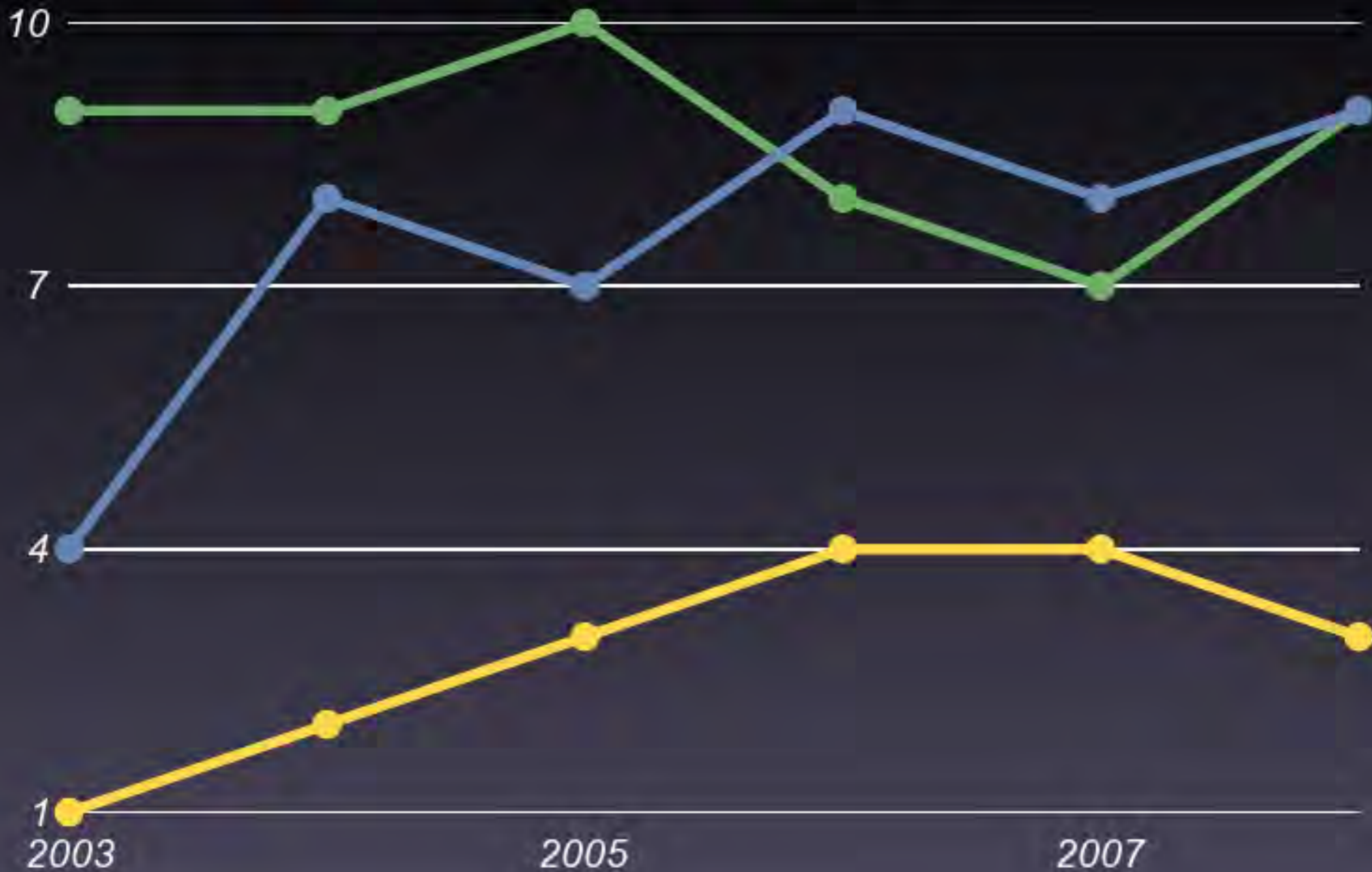
g.write('my_fruity_graph.png')
```

The logo for the Gruff gem, featuring the word "Gruff" in a bold, white, sans-serif font with a slight shadow effect, centered on a solid red rectangular background.

<http://nubyonrails.com/pages/gruff>

My Fruity Graph

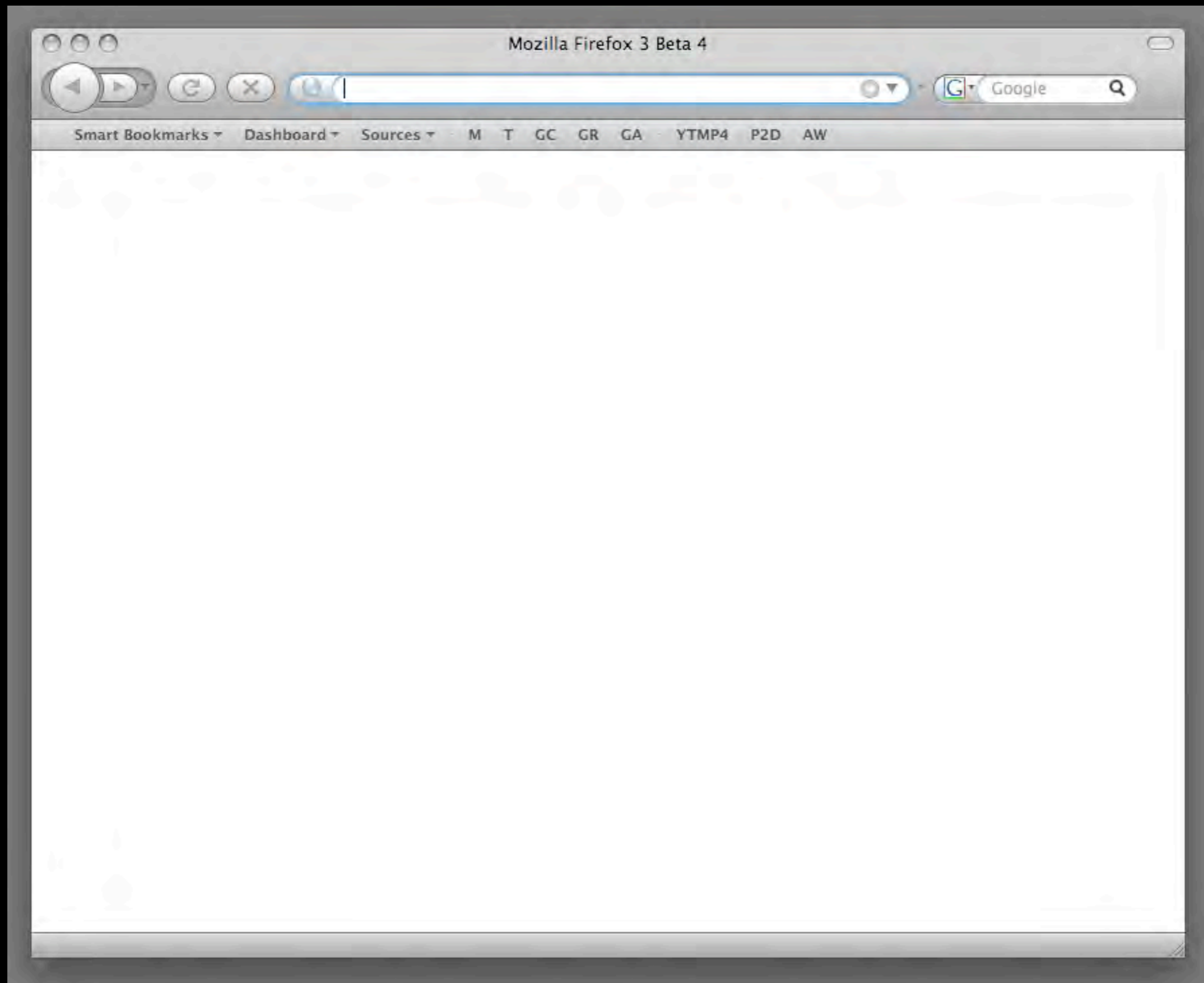
■ Apples ■ Oranges ■ Peaches




```
1 require 'classifier'
2 filter = Classifier::Bayes.new(:spam, :ham)
3 filter.train :spam, 'Free viagra!'
  filter.train :spam, 'Free credit card offer!'
  filter.train :spam, 'Enhance your anatomy'
4 filter.train :ham, 'URGENT. Your server is down.'
  filter.train :ham, 'Your Amazon.com Order'
  filter.train :ham, 'E-mail from mom'
5 filter.classify('Your Play.com Order') # => 'Ham'
  filter.classify('Free love tonight') # => 'Spam'
```

Classifier

<http://classifier.rubyforge.org/>



<http://classifier.rubyforge.org/>

Word stemming
Image manipulation
3D graphics
2D graphics
Physics
Bioinformatics
E-mail generation
Bayes classification
SQL generation
Text language detection
Language parsing
Web application frameworks
OS integration
HTTP servers
Other network daemons

Credit card validation
Payment gateway integration
CAPTCHAs
RSS feed processing
Caching and memoization
Graphing
Web crawling
Gem generation
GUI widget library bridges
Report generation
Unicode handling
Core Ruby improvements
Text manipulation
Content indexing
Search

Libraries

<http://rubyforge.org/>

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```
dbl@zabrieski: /homes/dbl/projects/rack$ rak require
spec/help spec.rb
  3| require File.dirname(__FILE__) + "/spec_helpers"

spec/rak spec.rb
  3| require File.dirname(__FILE__) + "/spec_helpers"

spec/performance_spec.rb
  3| require File.dirname(__FILE__) + "/spec_helpers"

Rakefile
  2| require 'rubygems'
  3| require 'hoe'
  4| require 'lib/rak'

bin/rak
  3| require 'getoptlong'
  6|   require 'rubygems'
  7|   require 'oniguruma'
  8|   require 'inline'

dbl@zabrieski: /homes/dbl/projects/rack$ █
```

Rak

<http://rak.rubyforge.org/>

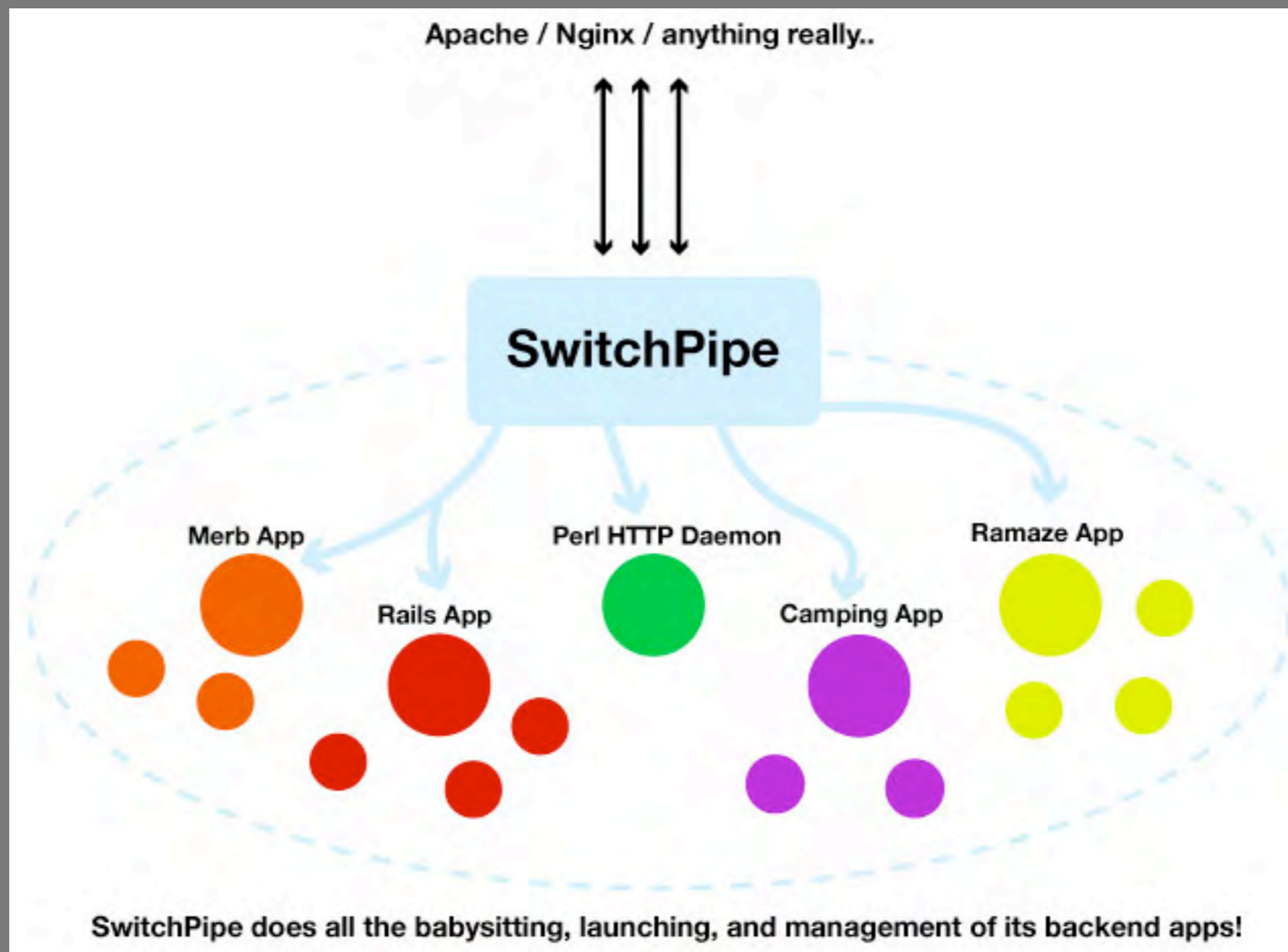
```

7:10am Josselin, Oliv. ( 23) find index of first non zero value in array
Yest. 1pm noreply, Yukih. ( 6) [ ruby-Bugs-6820 ] #ancestors never include
Yest. 2am AliasX, David,. ( 32) Bug in ruby? +ruby-talk Well, I've spent th
Nov 26 Kornelius, Yuk. ( 2) Typo in string.c +ruby-core in rb_str_ord:
Nov 26 dblack, Trans,. ( 33) [ANN] New RCRchive, including new process +
Nov 25 stef, EL, Paul. (100) Ruby vs Java vs c++ +ruby-talk hi, newbie s
Nov 22 Hugh, Eric, Ro. ( 30) Ruby 1.[89].\d+ and beyond. +ruby-core I've
Nov 20 Sean, Eric, Ji. ( 6) assert_raise question +ruby-talk Currently,
Nov 18 Brendan Inglese ( 13) YAML bug. +ruby-core Hi, First i would like
Nov 17 Soso, Yukihiro. ( 13) Accessing base method... +ruby-talk Hi all,
Nov 15 Kirill, Khaine. ( 13) External entropy pool for random number gen
Nov 15 Alfonso, Morto. ( 23) ruby indentantion +ruby-talk I have just st
Nov 14 David, Austin,. ( 4) Ruby on win32 cannot handle certain filename
Nov 14 Robert, Yukihi. ( 3) [Pbm] Compiling ext/openssl ruby 1.8.5 on L
Nov 13 Peter, Bernard. ( 9) sprintf bug (?) +ruby-talk Hello all, I am
Nov 13 Michael, Yukih. ( 9) Ruby performanmce improvements +ruby-core I
Nov 12 Charles, M., D. ( 26) McGovern Likes JRuby... +ruby-talk I'm not
Nov 12 Byung-Hee, Jos. ( 32) [OT] the name of Matz +ruby-talk Hello, I s
Nov 10 Kornelius, Yuk. ( 2) What does rb_memsearch do? +ruby-core Hello
Nov 10 Ben, Trans, Ja. ( 6) accessing caller's binding implicitly +ruby
Nov 9 Wink, Yukihiro. ( 5) Threading performance +ruby-core Hello all,
Nov 9 donn, Leslie, ( 7) Kudos to all Ruby creators/enhancers/users
[search-results-mode] search: "matz" line 12 of 22

```

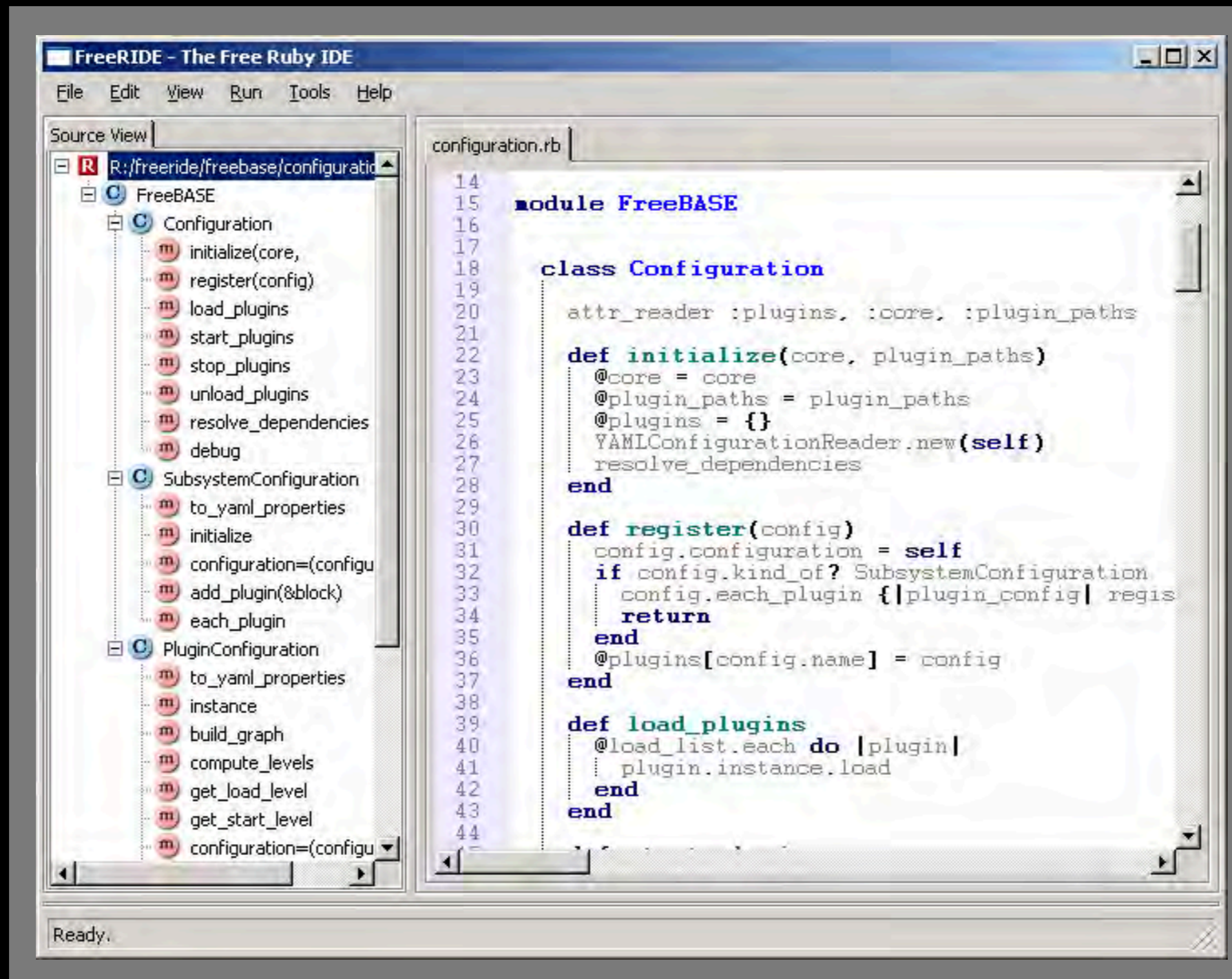
Sup

<http://sup.rubyforge.org/>



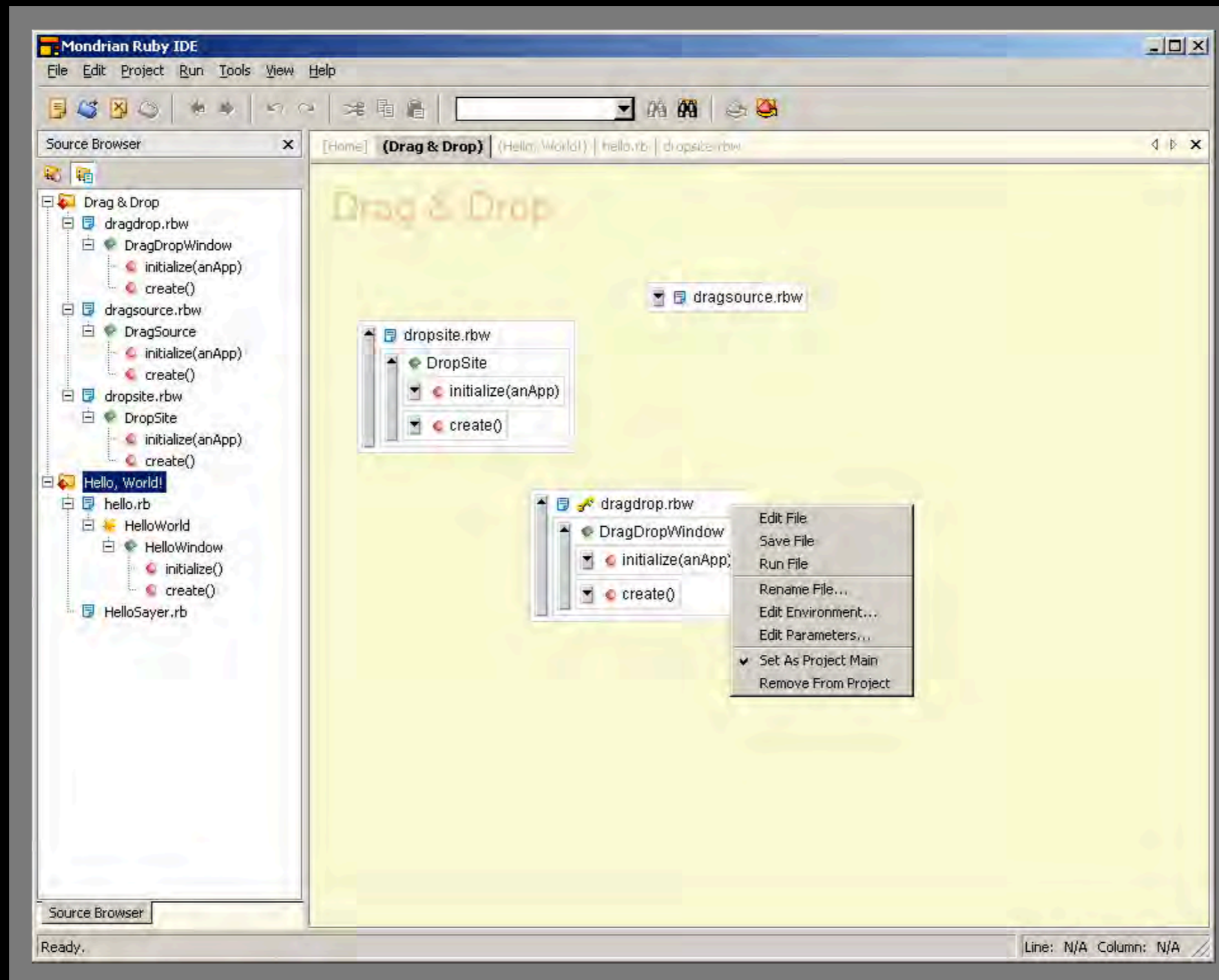
SwitchPipe

<http://switchpipe.org/>



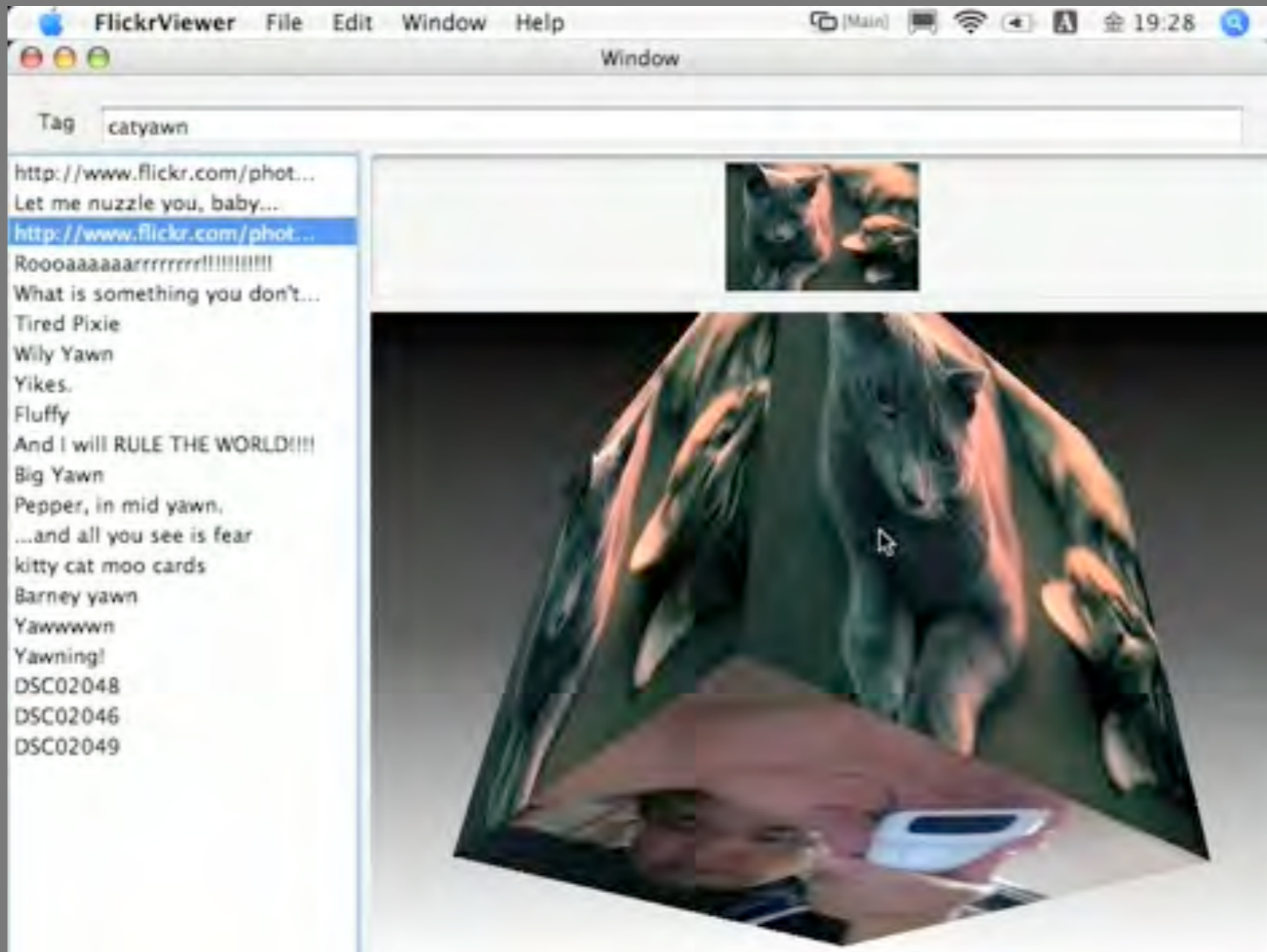
FreeRIDE

<http://freeride.rubyforge.org/>



Mondrian IDE

<http://www.mondrian-ide.com/>



RubyCocoa

The screenshot displays the GitHub web interface. On the left, a commit history sidebar lists recent changes, with the commit 'Added support for simple' by Benjamin Stiglitz on Wednesday, Mar 12, highlighted. The main content area shows the commit details for 'Added support for simple synchronously cached icons.' (commit hash 210a3d374d94d5bc36e15cbe227d132dbdbabb1) dated 'Today 02:08 PM'. Below the commit title, the file 'CommitsController.rb' is selected, and its diff is shown. The diff highlights the addition of a synchronous icon caching method. The code changes are as follows:

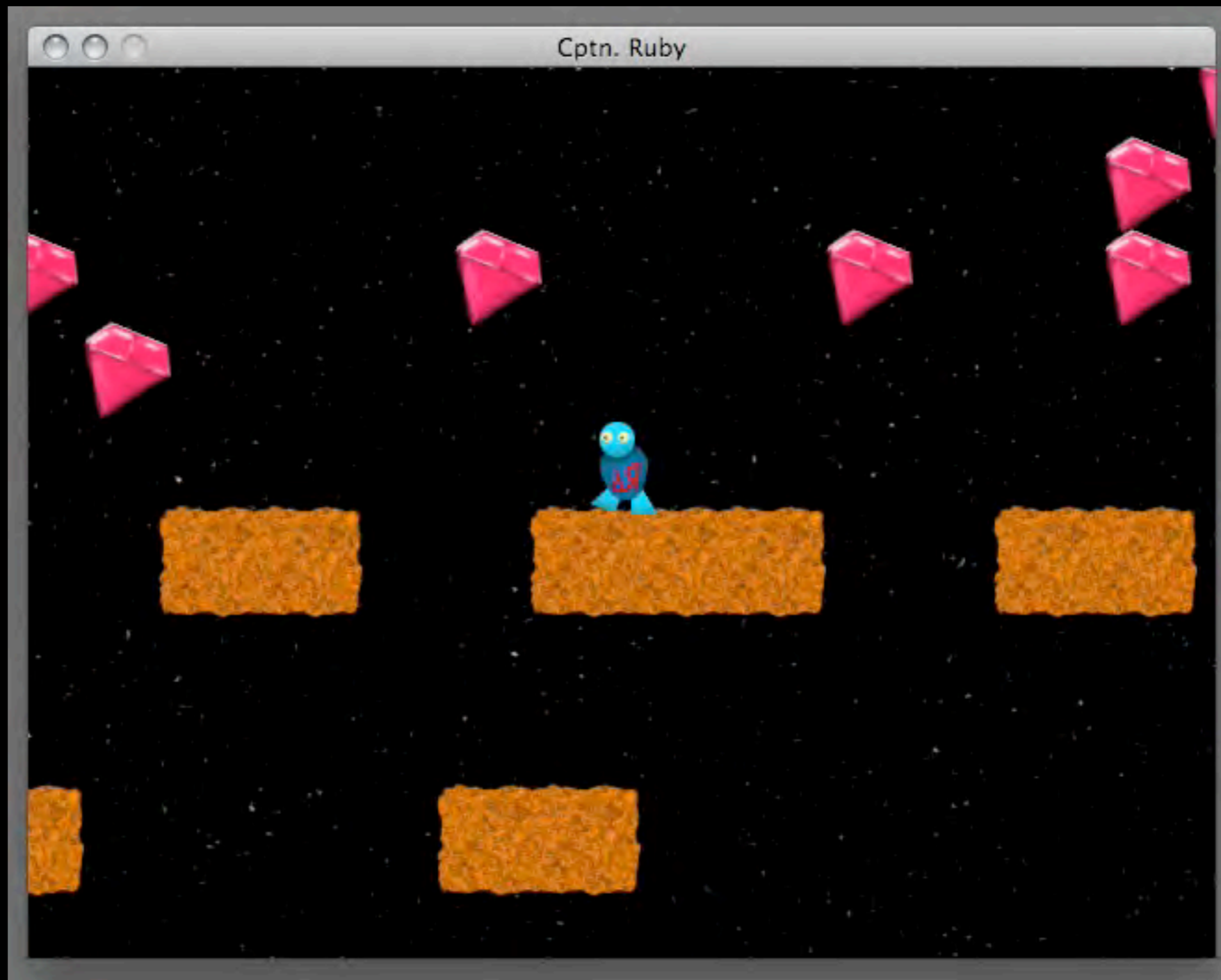
```
--- a/CommitsController.rb
+++ b/CommitsController.rb
@@ -21,7 +21,10 @@ class CommitsController < ApplicationController
   @current_commit_offset = 0
   @offset = 50
   @active_commit = nil
-  @icons = {}
+  @icons = Hash.new do |hash, email|
+    gravatar = NSURL.URLWithString("http://www.gravatar.com/avatar.php?gravatar_id=#{
+    hash[email] = NSImage.alloc.initWithContentsOfURL(gravatar)
+  end

   if(fetch_git_repository)
     setup_commit_detail_view
@@ -191,12 +194,7 @@ class CommitsController < ApplicationController
   end

   def iconForCell_data(icon, data)
-    #request = NSURLRequest.requestWithURL(NSURL.URLWithString("http://www.gravatar.com/
-    #connection = NSURLConnection.alloc.initWithRequest_delegate(request, self)
-    #image_data = NSMutableData.data
-    gravatar = NSURL.URLWithString("http://www.gravatar.com/avatar.php?gravatar_id=#{MDS
-    NSImage.alloc.initWithContentsOfURL(gravatar)
```

GitNub

<http://github.com/Caged/gitnub/wikis/home>



Captain Ruby

example with the Gosu library

```

require 'gosu'
include Gosu

module Tiles
  Grass = 0
  Earth = 1
end

class CollectibleGem
  attr_reader :x, :y

  def initialize(image, x, y)
    @image = image
    @x, @y = x, y
  end

  def draw(screen_x, screen_y)
    # Draw, slowly rotating
    @image.draw_rot(@x - screen_x, @y - screen_y, 0,
      25 * Math.sin(milliseconds / 133.7))
  end
end

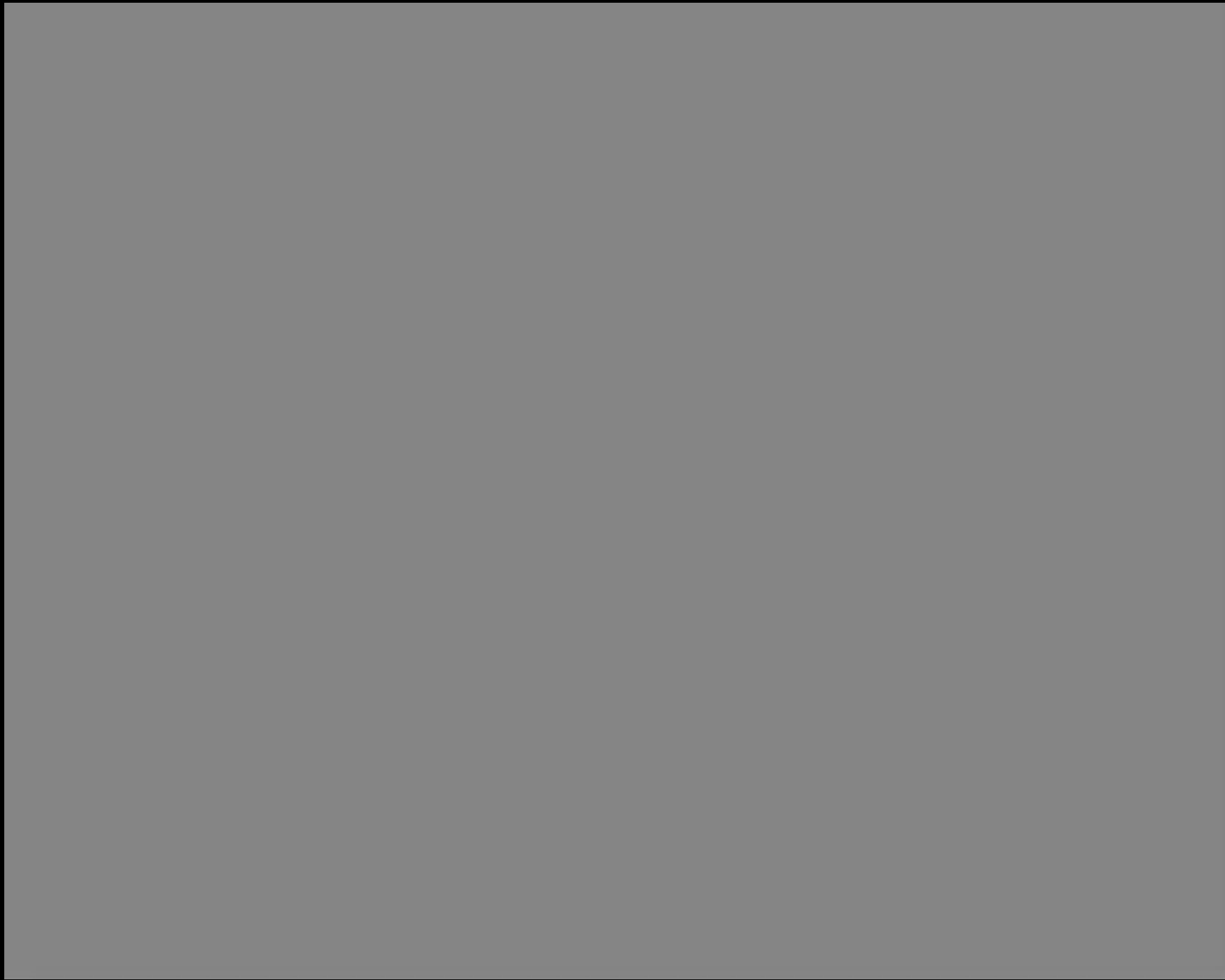
# Player class.
class CptnRuby
  attr_reader :x, :y

  def initialize(window, x, y)

```

Captain Ruby

example with the Gosu library



Chipmunk Physics



Ogre

THE ANECDOTE

THE DOWNSIDES

THE LANGUAGE

THE COMMUNITY

THE LIBRARIES

THE APPLICATIONS

THE IMPLEMENTATIONS

THE QUESTIONS

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Iron Ruby

Rubinius

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THE LANGUAGE

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THE APPLICATIONS

THE IMPLEMENTATIONS

THE QUESTIONS



QUESTIONS?

If you get bored...

www.rubyinside.com

www.petercooper.co.uk



THE END

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