

Pourquoi Rails est génial?

D'un point de vue non technique!

9 juillet 2010



Qui parle?

- Camille Roux
- 25 ans, Sophia Antipolis
- +1 an de dev Ruby on Rails
- +3 ans de dev web (WebObjects, Flex, PHP...)
- <http://camilleroux.com>



camilleroux

Qu'est-ce qu'un bon
framework web?

Coût

Hébergement Productivité Agile Innovant
Déploiement Performance
Moderne Licence Evolution
Recrutement Actif
Confort Coût Bibliothèques
Rapide Utilisé
IDE Bonnes pratiques Communauté
Outils
Référencement Plugins Open Source
Architecture Sécurité

Ruby





Ruby

Quoi : langage de programmation interprété, orienté objet et multi-paradigme

Licence : Libre - Licence Ruby et GPL

OS : Multiplate-forme

Apparu en : 1995

Créateur : Yukihiro Matsumoto (aka "Matz")

Multiples implémentations

- Ruby
- JRuby
- MacRuby
- Rubinius
- ...

+14 000

gems sur Rubygems

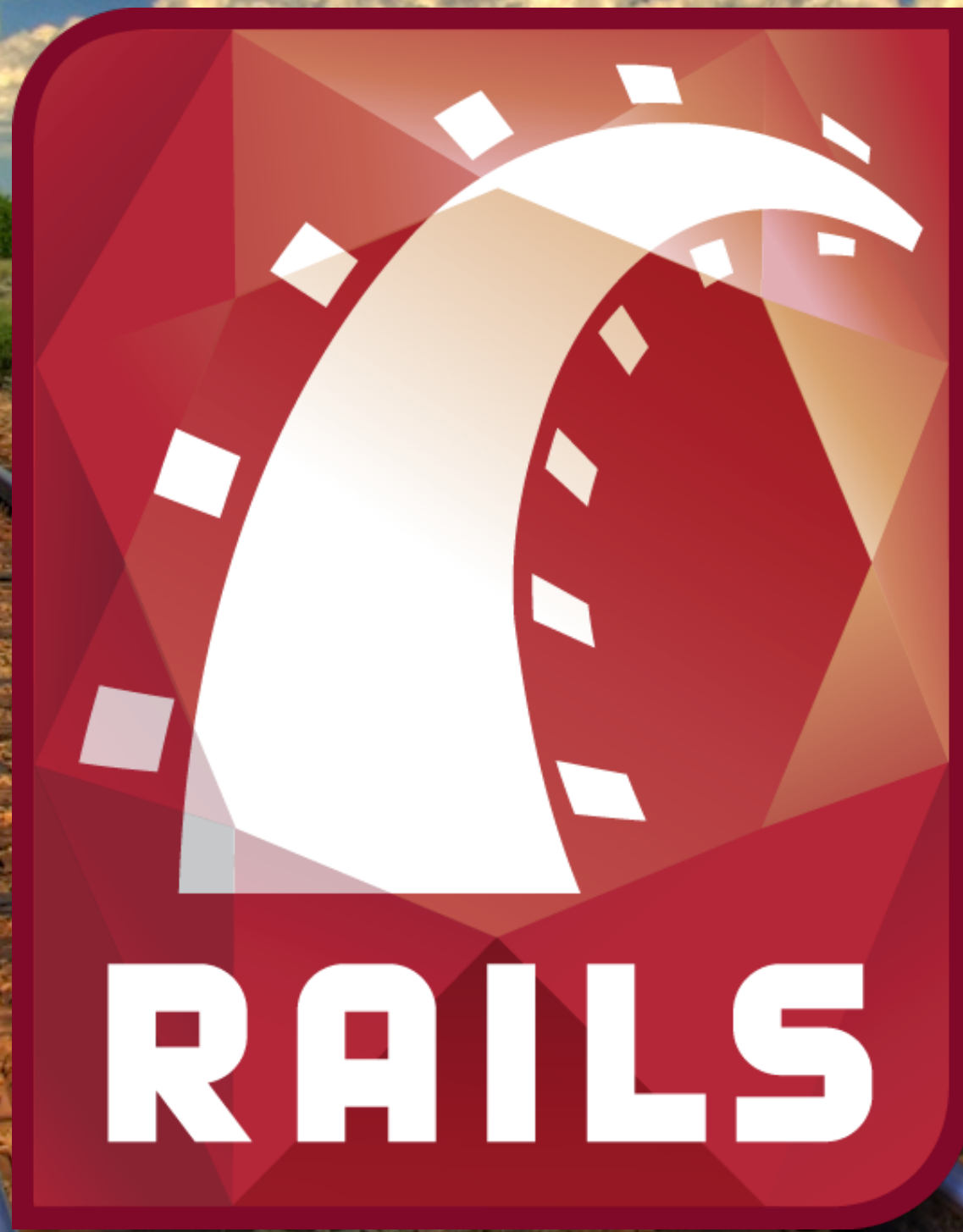
+ 185 000

projets Ruby sur Github

10eme

Position au classement

TIOBE (juin 2009)





Ruby on Rails

Quoi : framework d'application web reposant sur le langage Ruby

Autres noms : RoR, Rails

Licence : Libre - MIT

Apparu en : 2004

Créateur : David Heinemeier Hansson (aka “DHH”) et quelques autres (Rails Core Team)

Philosophie

Convention over Configuration

DRY

(**D**'ont **R**epeat **Y**ourself)



Awesome

When you thought it couldn't get any awesomer.

Structure

Migrations

Active Record

Scaffold

Environnements

Sécurité

Javascript

Cache

Tests



RAILS 3

- Rails 3 = Rails 2 + Merb
- Modularité
- Bundler
- Performance
- HTML 5
- ...



Ruby est lent non?

- Comme Python et PHP
 - JRuby, Ruby 1.9/2.0...
- La vitesse d'exécution, vraiment important ?
 - Vitesse de développement
 - Fiabilité
 - Maintenabilité

Un plugin/une gem
pour tout...

Tâches de fond

Upload de fichiers

Hiérarchies

Paielement en ligne

Authentication

NoSQL

Indexation

Un plugin/une gem
pour tout...

BDD

Pagination

Geolocalisation

Twitter

Cache

Parsing

Facebook

Optimisation



Rails v3.0.0beta3, Ruby v1.9

http://railsapi.com/doc/rails-v3.0.0.beta.3_ruby-v1.9/

rails API

array

Array <

ruby JSON::Ext::Generator::GeneratorMethods

Array <

ruby JSON::Pure::Generator::GeneratorMethods

Array < Object

ruby lib/yaml/rubytypes.rb

Arrays are ordered, integer-indexed collections of any o

Array(p1)

ruby Kernel

Returns arg as an <code>Array</code>. First tri

array(node)

ruby XMLRPC::XMLParser::AbstractTreeParser

array_attribute(name)

ruby Gem::Specification

Same as :attribute, but ensures that values assigned to t

array_attributes()

ruby Gem::Specification

Specification attributes that are arrays (appendable and

array_nl()

ruby JSON::Ext::Generator::State

This string is put at the end of a line that holds a JSON a

array_nl=(p1)

ruby JSON::Ext::Generator::State

This string is put at the end of a line that holds a JSON a

array_or_string_for_javascript(option)

rails ActionView::Helpers::ScriptaculousHelper

array.c

ruby files/array_c.html

array.rb

rails files/activesupport/lib/active_support/core_ext/arr

build_array_from_version_string()

ruby Gem::Version

create_ext_from_array(ary)

ruby OpenSSL::X509::ExtensionFactory

from_array(messages, save_cache = false)

rails ActiveRecord::Errors

Grabs errors from an array of messages (like ActiveRec

parse_array()

ruby JSON::Pure::Parser

sanitize_sql_array(ary)

rails ActiveRecord::Base

Accepts an array of conditions. The array has each val

Class

Array < Object

array.c

pack.c

golf_prelude.rb

lib/abbrev.rb

lib/pp.rb

lib/rexml/xpath_parser.rb

lib/csv.rb

lib/shellwords.rb

lib/yaml/rubytypes.rb

Arrays are ordered, integer-indexed collections of any object. [Array](#) indexing starts at 0, as in C or Java. A negative index is assumed to be relative to the end of the array—that is, an index of -1 indicates the last element of the array, -2 is the next to last element in the array, and so on.

Methods

&, *, +, -, <<, <=>, ==, [], [], []=

A abbrev, assoc, at

C clear, collect, collect!, combination, compact, compact!, concat, count, cycle

D dclone, delete, delete_at, delete_if, drop, drop_while

E each, each_index, empty?, eql?

F fetch, fill, find_index, first, flatten, flatten!, frozen?

H hash

I include?, index, initialize_copy, insert, inspect


J join

L last, length

M map, map!

feedback

Scaling Rails
Part of the RailsLab Series.



contents

Scaling Rails

On The Edge - Part 3

On The Edge - Part 2

On The Edge - Part 1

Scaling Your Database - Part 2

Scaling Your Database - Part 1

Load Testing - Part 2

Load Testing - Part 1

Rack & Metal

Jim Gochee & Advanced RPM

Jesse Newland & Deployment

Advanced HTTP Caching

Client-side Caching

Taylor Weibley & Databases

Memcached

Fragment Caching

Action Caching

Advanced Page Caching

New Relic RPM

Cache Expiration


Page Caching

Page Responsiveness

Introduction

« Back to RailsLab

What is the Scaling Rails Series?




Learn everything you need to know about Scaling your Rails app through 13 informative Screencasts produced by Gregg Pollack with the support of New Relic.

Don't forget to subscribe to the RSS or iTunes feed over on the right.

Introduction


Welcome to the Scaling Rails Screencast Series produced by Gregg Pollack and supported by New Relic.

In the next few weeks we're going to bring you 13 educational videos, teaching you just about everything you need to know to create a Rails application that can scale

 Play Video (10.4 MB, 2:13, MP4)

Episode #1 - Page Responsiveness


Before we can talk about Server-side performance, we need to go over Client-side performance. We're talking about how fast your website comes up in a user's browser.

 Play Video (49.8 MB, 12:11, MP4)

[View Code and Additional Resources](#)


Episode #2 - Page Caching


Ruby on Rails comes with several caching mechanisms out of the box, starting with Page Caching. In this episode we show how to implement Page Caching in a simple blog application.

 Play Video (32.2 MB, 6:45, MP4)


[View Code and Additional Resources](#)


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about the author

Gregg Pollack is part of the Rails Activist Team and partner at Envy Labs where he produces a podcast, creates educational Ruby videos, and develops websites with Rails.

email notification

We'll email you when more become available. We **will not** spam you. Swearsies.

email


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Interview


Caching

Database




programming screencasts





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[teach me to code](#) [46]

[railsdispatch](#) [8]

[pragprogs](#) [16]

[katacasts](#) [14]

[full disclosure](#) [26]

Learnivore: Ruby/Rails/iPhone screencasts

[http://www.learnivore.com/search](#)
[RSS](#)

77 [retweet](#) Help out: share this site!

Latest Screencasts

Rails 3- Building a Blog - Part 2: CRUD Show and Create Teach Me To Code - 2010-06-30 - free

[teachmetocode.com](#) The second part of the tutorial for building a blog with Ruby on Rails version 3. We demonstrate how to set up some basic routes, manage the controller and views, and create a basic form for creating posts. [Watch this screencast](#)


PDFKit Railscasts - 2010-06-28 - free

Railscasts Generating PDFs in plain Ruby can be a lot of work. Instead, consider generating PDFs from HTML using PDFKit. [Watch this screencast](#)

Better Than Ever! Fosscasts - 2010-06-28 - free

FOSSCasts FOSSCasts will be returning in a few weeks with more screencasts and now with interviews from the FOSS community. I've got the first few interviews lined up, but if there is anyone you'd like me to try and get on the show let me know at john at fosscasts.com. Also,... [Watch this screencast](#)

Test Driven Development Pragprogs - 2010-06-24 - paid



Test-driven development (TDD) is a programming technique that reverses the usual sequence of coding and testing. By writing tests just in advance of the code needed to satisfy them, programmers: * Work with confidence * Work on a series of achievable steps instead of tackling a big problem all at once * Ensure that software design meets the need of the actual code * Leave behind a suite of tests to help preserve the integrity of the code [Watch this screencast](#)

Rails 3 - Building a Blog - Part 1: Test Setup & Generators Teach Me To Code - 2010-06-22 - free

[teachmetocode.com](#) Every good project needs a good setup. In this episode, I set up a github repo, create a new rails application, hook in Cucumber and Rspec, write a Cucumber feature, and write the code to make it pass. [Watch this screencast](#)

Active Model Railscasts - 2010-06-21 - free

Railscasts In Rails 3 the non-database functionality of Active Record is extracted out into Active Model. This allows you to cleanly add validations and other features to tableless models. [Watch this screencast](#)

Selecting columns with visual block mode Vimcasts - 2010-06-20 - free

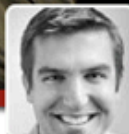
RAILSCONF JUNE 7-10 2010 BALTIMORE, MARYLAND

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NEWS & COVERAGE



Dr Nic Williams
Mocra



Chad Pytel
thoughtbot, inc.



Marty Haught
Haught
Codeworks



Gregg Pollack
Envy Labs



Yehuda Katz
Engine Yard, Inc.

RAILSCONF 2010 IS A WRAP

Watch the RailsConf Keynotes

Speaker Slides and Videos

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- [RailsConf 2010] - Video Interview - Robert Martin
- RailsConf 2010: Gary Vaynerchuk
- **RailsConf** 2010
- **RailsConf** 2010: wrap-up ...
- RailsConf

Happening June 7–10, 2010 at the [Baltimore Convention Center](#), RailsConf is the largest official event for the Ruby on Rails community. If you're passionate about Rails and what it helps you achieve—or are curious about how Rails can help you create web applications better and faster—RailsConf is the place to be.

RUBY SUMMER OF CODE

O'Reilly is proud to be a sponsor of the [Ruby Summer of Code](#). This non-profit program is designed to help fund student development of Ruby and/or Rails projects in the summer of

Check out the **onsite information** and **schedule, speaker slides, live stream, videos, photos, and the attendee directory.**

2010 VIDEO



 More RailsConf Video: [YouTube](#) | [Podcast](#)

SPEAKER SLIDES & VIDEOS

- Agile the Pivotal Way *Ian McFarland*
- Bundler: Painless Dependency Management *André Arko*

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The Pragmatic Bookshelf | Ruby on Rails

http://pragprog.com/categories/rails


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Ruby on Rails




Rails Recipes

by Chad Fowler

You've read the tutorials and watched the online videos. You have a strong grasp of all of the ingredients that make up a successful Rails application. But ingredients don't just turn themselves into a meal. Chad Fowler's Rails Recipes is a collection of recipes that will take you step by step through the the most cutting edge Rails techniques, mixing the ingredients to create world-class web applications. Learn how to do it, and how to do it right.


(Note: this book was written for Rails 1.x. Most of the recipes are still appropriate for Rails 2, perhaps with some tweaking. [Advanced Rails Recipes](#) is a newer book, written for Rails 2.0.)



Rails for Java Developers

by Stuart Halloway and Justin Gehtland

Many Java developers are now looking at Ruby, and the Ruby on Rails web framework. If you are one of them, this book is your guide. Written by experienced developers who love both Java and Ruby, this book will show you, via detailed comparisons and commentary, how to translate your hard-earned Java knowledge and skills into the world of Ruby and Rails.




Advanced Rails Recipes


by Mike Clark

Advanced Rails Recipes: 84 New Ways to Build Stunning Rails Apps

by Mike Clark

With the help of a community of Rails chefs in the kitchen, here are 84 new ways to kick your Rails apps up a notch. Advanced Rails Recipes is a collection of practical recipes for spicing up your web application without a lot of prep and cleanup. You'll learn how the pros have solved the tough problems using the most up-to-date Rails 2 techniques so you can deliver your stunning web app quicker and easier.

 Watch Mike Clark run through some of the highlights of the book in [an exclusive video](#) (33Mb, Quicktime)



Deploying Rails Applications

by Ezra Zygmuntowicz, Bruce Tate, and Clinton Begin

Deploying Rails Applications: A Step-by-Step Guide

by Ezra Zygmuntowicz, Bruce Tate, and Clinton Begin

Until now, the information you needed to deploy a Ruby on Rails application in a production environment has been fragmented and contradictory. This book changes all of that by providing

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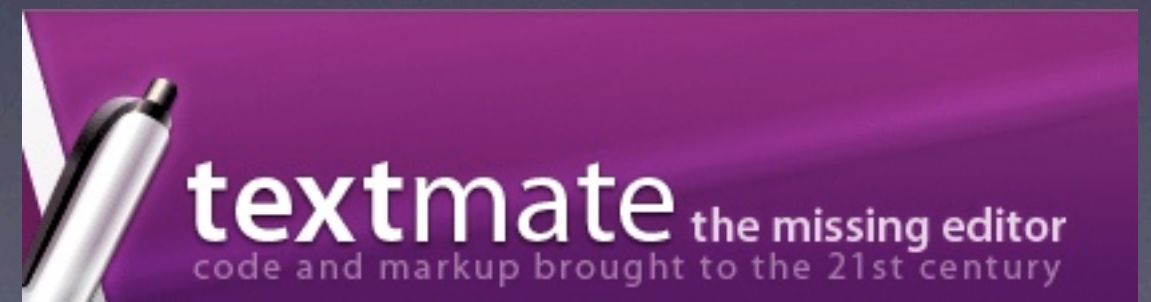
Starter Kit Series

Titles from SitePoint

IDE

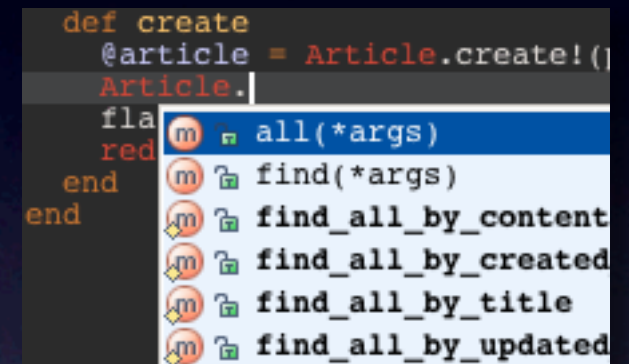


IDE



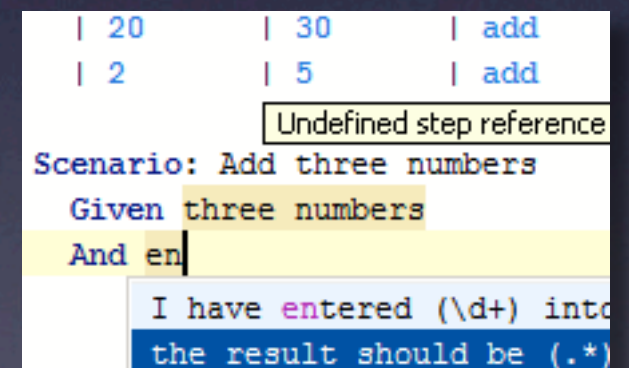
RubyMine 2.0

- Debugger
- Refactoring automatisé
- Analyse du code à la volée + inférence du type
- Code completion
- Intégration de multiples VCS (Git, SVN...)



```
def create
  @article = Article.create!()
  Article.
  fla
  red
end
end
```

The screenshot shows a code completion menu for the `Article.` prefix. The menu lists several methods: `all(*args)`, `find(*args)`, `find_all_by_content`, `find_all_by_created`, `find_all_by_title`, and `find_all_by_updated`. Each method is preceded by a small icon representing its return type or a method call.



```
| 20 | 30 | add
| 2  | 5  | add
Undefined step reference
Scenario: Add three numbers
Given three numbers
And en
I have entered (\d+) into
the result should be (.*)
```

The screenshot shows a Cucumber scenario editor. It displays a table of steps with columns for step number, step text, and step type. The steps are: 20 | 30 | add, 2 | 5 | add, and an undefined step reference. Below the table, the scenario text is shown: "Scenario: Add three numbers", "Given three numbers", "And en", "I have entered (\d+) into", and "the result should be (.*)".

Qui utilise
Ruby on Rails?

drop.io

twitter

shopify

slideshare
Present Yourself

cafe
press



Howcast

zendesk
LOVE YOUR HELP DESK

github
SOCIAL CODING

YELLOW
PAGES™

43Things

hulu™

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PIVOTAL LABS

Geni
everyone's related



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SATISFACTION

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posterous™

present.ly

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ravelry

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pages

CrunchBase

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The
Pragmatic
Bookshelf

Basecamp®

Scribd

39 700 000

Twitter

30 000 000

Hulu

24 900 000

WhitePages

21 800 000

Justin.tv

19 300 000



High Profile Organisations using Rails - WorkingWithRails.com

Des outils
extraordinaires

Github

rails's rails at master - GitHub

git http://github.com/rails/rails

RSS

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rails / rails

Watch

Fork

Download Source

6,065

1,035

Source

Commits

Network (1,035)

Downloads (69)

Wiki (4)

Graphs

Branch: master

Switch Branches (8)

Switch Tags (69)

Branch List

Ruby on Rails

http://rubyonrails.org

HTTP

Git Read-Only

http://github.com/rails/rails.git

This URL has Read-Only access

Print proper "Usage:" messages for "rails plugin" command

amatsuda (author)

4 days ago

jeremy (committer)

about 15 hours ago

commit

bf5d15456757e6359857

tree

98fc34071f6f9659da5c

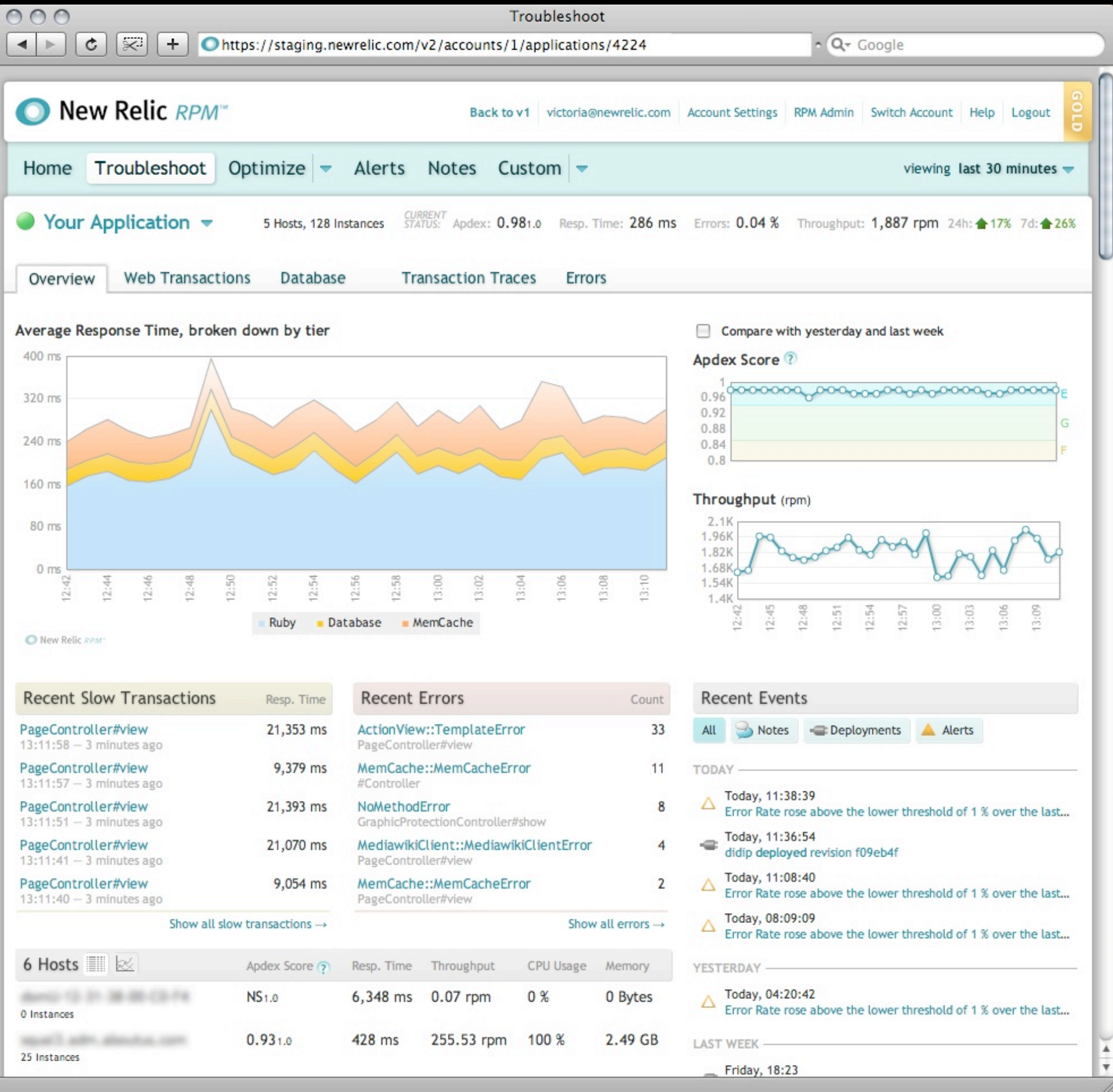
parent

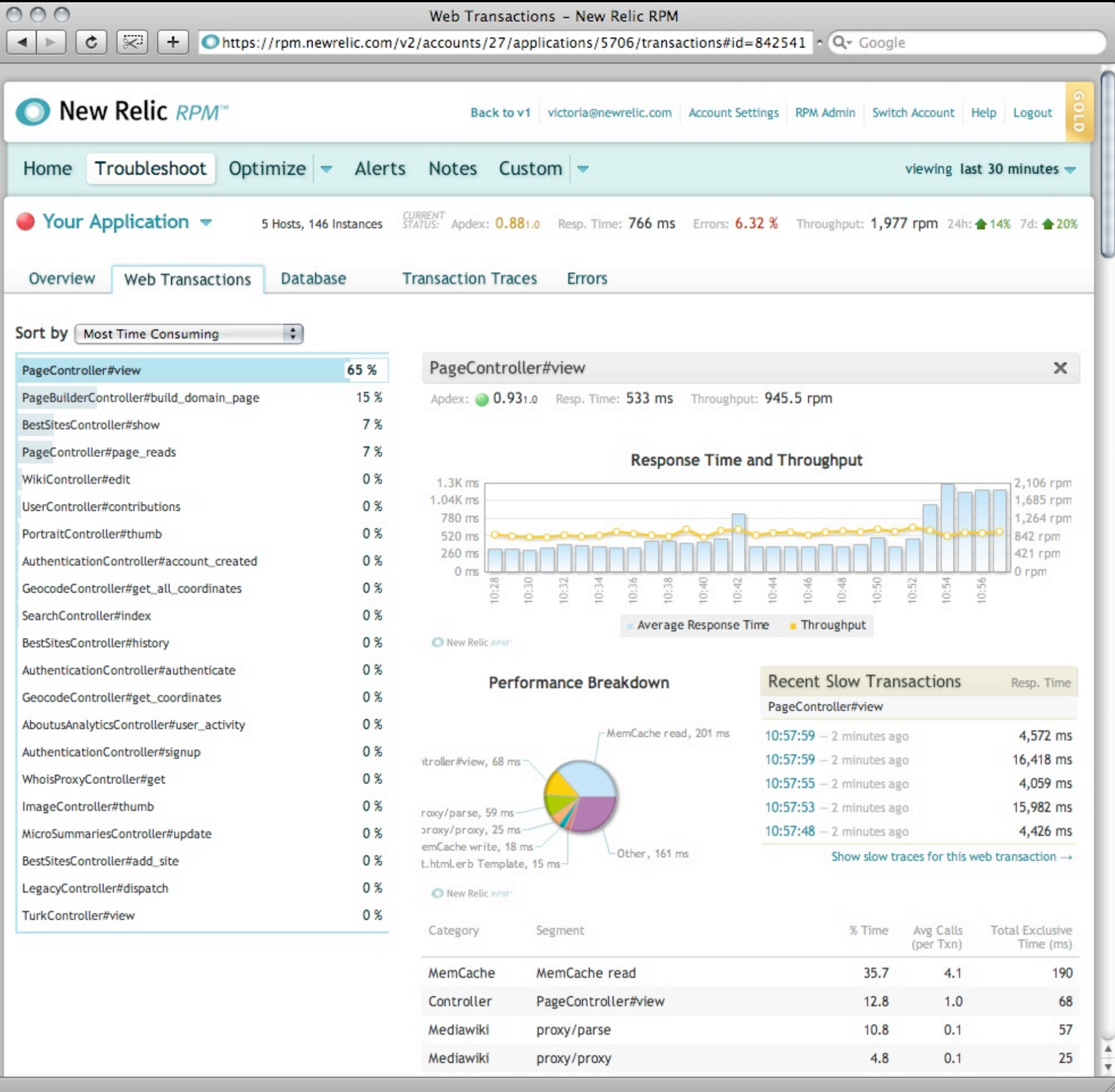
ff44cc284441be894cc6

rails /

name	age	message	history
.gitignore	July 01, 2010	Bump bundler dependency to 1.0.0.beta.2 or later [jeremy]	
Gemfile	June 28, 2010	Vendor unreleased rack-mount 0.6.6.pre dependency [jeremy]	
RAILS_VERSION	June 08, 2010	Get ready for beta 4 [dhh]	
Rakefile	June 16, 2010	pdoc tasks publishe APIs in api.rubyonrails.org [fxn]	
actionmailer/	4 days ago	Avoids deprecation warning running tests [spastorino]	
actionpack/	about 20 hours ago	Fix setting helpers_path to a string or pathname [jeremy]	
activemodel/	5 days ago	Add a missing require to allow the usage of Arr... [spastorino]	
activerecord/	about 16 hours ago	Fixed gruoped_by_title spelling [#5063 state:co... [bensomers]	
activeresource/	June 26, 2010	Make sure ActiveResource::Errors#from_json does... [dtrasbo]	
activesupport/	3 days ago	Define a convention for descendants and subclas... [josevalim]	

New Relic





PageController#view

Apdex: 0.931.0

Resp. Time: 533 ms

Throughput: 945.5 rpm

Response Time and Throughput

1.3K ms

1.04K ms

780 ms

520 ms

260 ms

0 ms

2,106 rpm

1,685 rpm

1,264 rpm

842 rpm

421 rpm

0 rpm

Average Response Time

Throughput

Performance Breakdown

MemCache read, 201 ms

Controller#view, 68 ms

proxy/parse, 59 ms

proxy/proxy, 25 ms

MemCache write, 18 ms

tmpl.erb Template, 15 ms

Other, 161 ms

Recent Slow Transactions

Resp. Time

PageController#view

10:57:59 - 2 minutes ago

4,572 ms

10:57:59 - 2 minutes ago

16,418 ms

10:57:55 - 2 minutes ago

4,059 ms

10:57:53 - 2 minutes ago

15,982 ms

10:57:48 - 2 minutes ago

4,426 ms

Show slow traces for this web transaction

Category

Segment

% Time

Avg Calls (per Txn)

Total Exclusive Time (ms)

MemCache

MemCache read

35.7

4.1

190

Controller

PageController#view

12.8

1.0

68

Mediawiki

proxy/parse

10.8

0.1

57

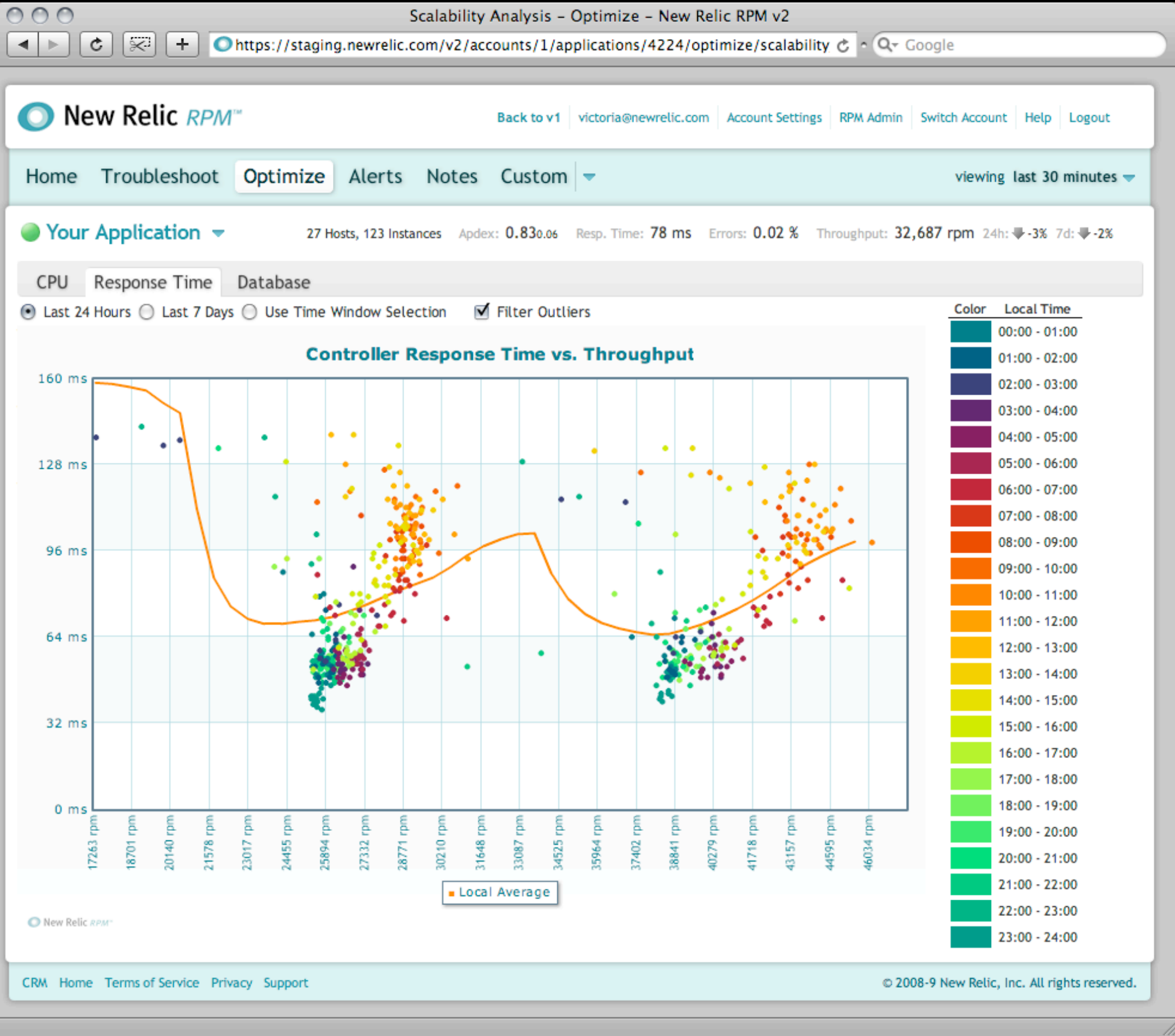
Mediawiki

proxy/proxy

4.8

0.1

25



Avantages

- Installation en quelques minutes
- Ruby, JRuby, Java
- Prix

Hébergement

Les classiques

Mutualisé

VPS

Les classiques

Dédié

Cloud

Serveurs persos



Engine Yard

- Repose sur Amazon EC2 et S3
- Ajout/suppression de machines à chaud
- Déploiement automatique à partir du code source (Git)
- Clonage d'application
- Monitoring et alerte
- Backup



Heroku

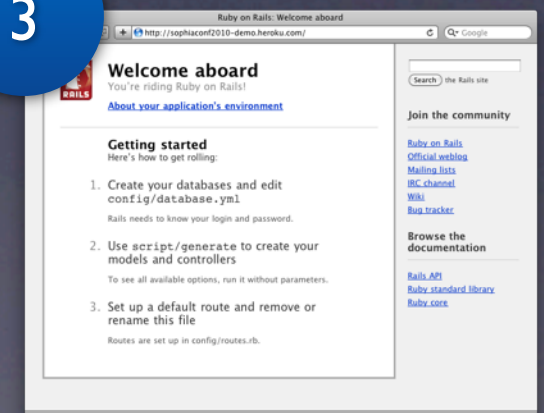
1 Je fais mon application Rails en utilisant Git

2 2 lignes de commandes



00:01:00

3





Heroku | sophiaconf2010 | General Info

←

→

⌂

+

http://api.heroku.com/myapps/sophiaconf2010

↻

Google

heroku

How it Works | Pricing | Add-ons | Docs | Support

My Apps | My Account | Logout

sophiaconf2010

General Info

Resources

Add-ons ▾

Name

sophiaconf2010

Rename

Heroku URL

http://sophiaconf2010.herokuapp.com

Custom Domains

Custom Domains are now managed through the [Add-ons](#) menu.

Collaborators

roux.camille@gmail.com (owner)

email address

+

Git Repo

git@heroku.com:sophiaconf2010.git

Repo Size: 5.8 MB

Slug Size: 4.8 MB of 100mb ?

Data size


0 Bytes in 0 tables

Destroy App

Heroku | Pricing

http://api.heroku.com/myapps/sophiaconf2010/resources


Google

 heroku

[How it Works](#) | [Pricing](#) | [Add-ons](#) | [Docs](#) | [Support](#) | [My Apps](#) | [My Account](#) | [Logout](#)

sophiaconf2010

General Info | **Resources** | Add-ons ▾

 **Blossom 1**

Database	\$ 0
Dynos	\$ 0
Workers	\$ 0
Add-ons	\$ 0


estimated monthly cost ?

Save and Apply


Database

Shared Cluster

Shared DBs offer highest peak performance. Cost-effective, but performance is variable.

 **Blossom** **FREE**

5MB database max
Free database for development


 **Koi** **\$ 15**

20GB database max
Fast but variable performance


Read about our recent database pricing changes.

Dedicated


Dedicated DBs offer dedicated compute units for predictable performance.

 **Ronin** **\$ 200**

1 compute unit
2TB database max

 **Fugu** **\$ 400**

5 compute units
2TB database max

 **Zilla** **\$ 1600**

20 compute units
2TB database max

Dynos and Workers

Crank your **dynos** to increase HTTP performance. More dynos provide more **concurrency**. Crank your **workers** to process background jobs from a queue. More workers will empty the queue faster.

1 Dyno
\$0.00/hour

0 Workers
\$0.00/hour

Add-ons

 heroku

Amazon RDS

Websocket

SSL

Apigee for Twitter

Zerigo DNS

Sendgrid

Panda Stream

Bundles

New Relic

Add-ons

Cloudfant

MongoHQ

Cron

Moonshado SMS

Custom domains

Exceptional

Memcache

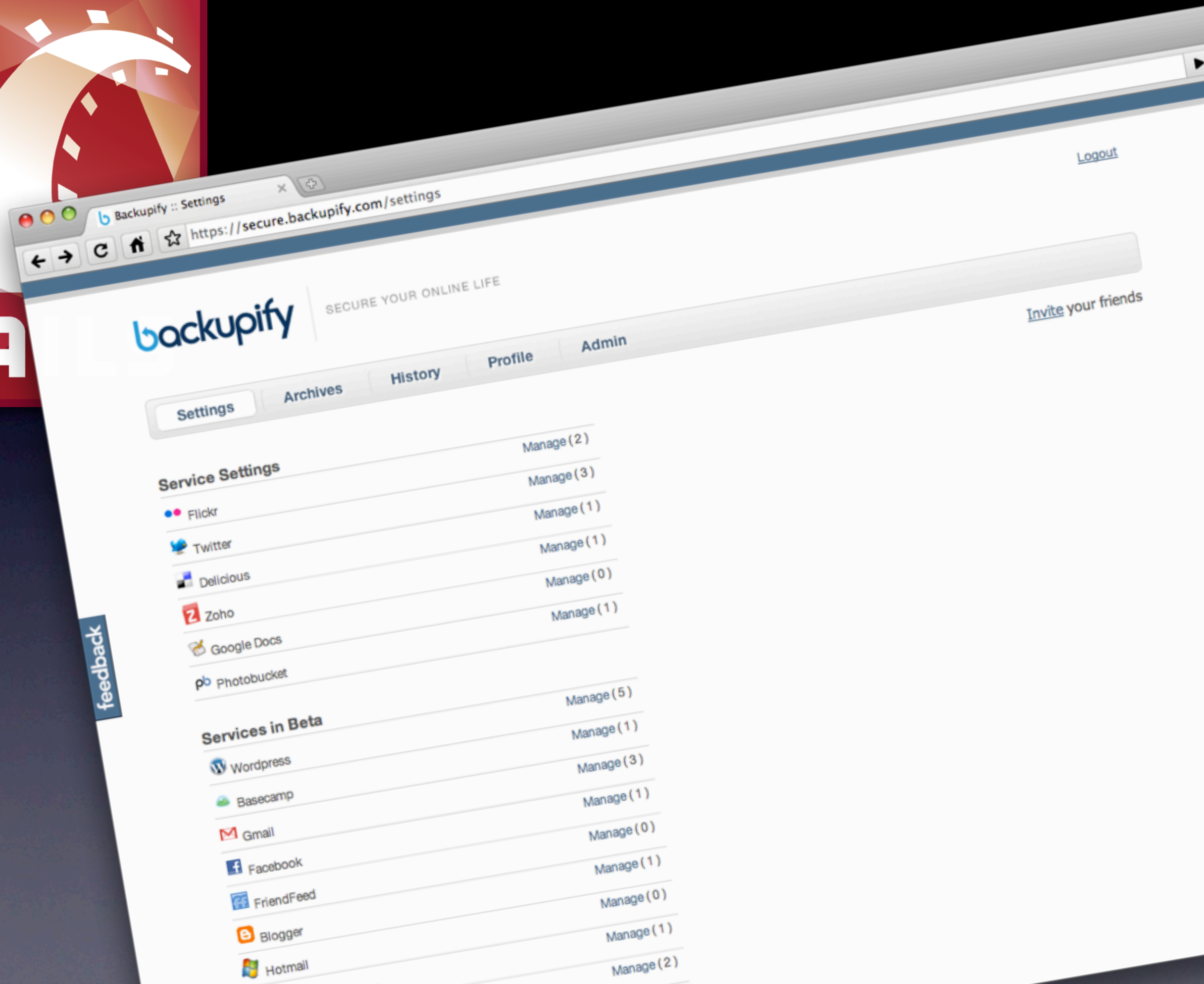
Deploy hooks

LogWorm

+70 000

applications déployées

Les "switchers"



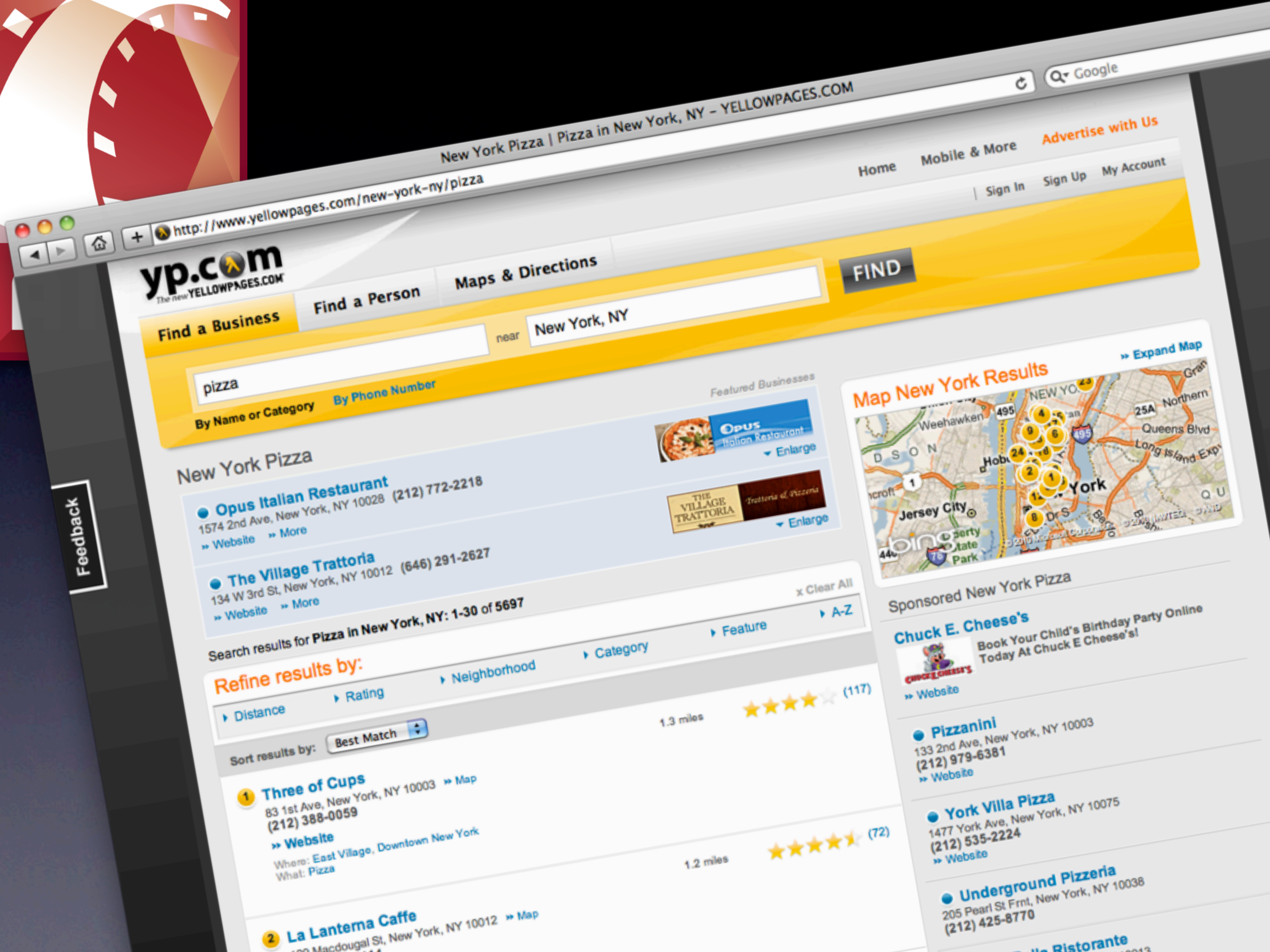
Backupify was originally a photo backup side project, and Zend had a good Flickr library, so we started in Zend.

Rob May, founder

Iterating quickly was difficult. When Matt joined Backupify, he gave me a Ruby on Rails crash-course[...]. Seriously, although I've read the blogs, and seen the screencasts, I wasn't truly impressed with Rails until I started working with it. Ruby is easy to understand and Rails provides a clear level of organization/convention that's easy to maintain.

Ben Thomas, VP of Product Development

- Architecture système automatisée
- Intégration continue
- *"Rubyists are amazingly prolific"*
- *"Lot of innovation in the Ruby space"*



Feedback

yp.com
The new YELLOWPAGES.COM

Find a Business

Find a Person

Maps & Directions

FIND

By Name or Category
By Phone Number

New York Pizza

● **Opus Italian Restaurant**
1574 2nd Ave, New York, NY 10028 (212) 772-2218
» Website » More

● **The Village Trattoria**
134 W 3rd St, New York, NY 10012 (646) 291-2627
» Website » More

Search results for **Pizza in New York, NY: 1-30 of 5697**

Refine results by:

Distance

Rating

Neighborhood

Category

Feature

A-Z

Sort results by:

Best Match

1 **Three of Cups**
83 1st Ave, New York, NY 10003 » Map
(212) 388-0059
» Website
Where: East Village, Downtown New York
What: Pizza

2 **La Lanterna Caffè**
100 Macdougall St, New York, NY 10012 » Map

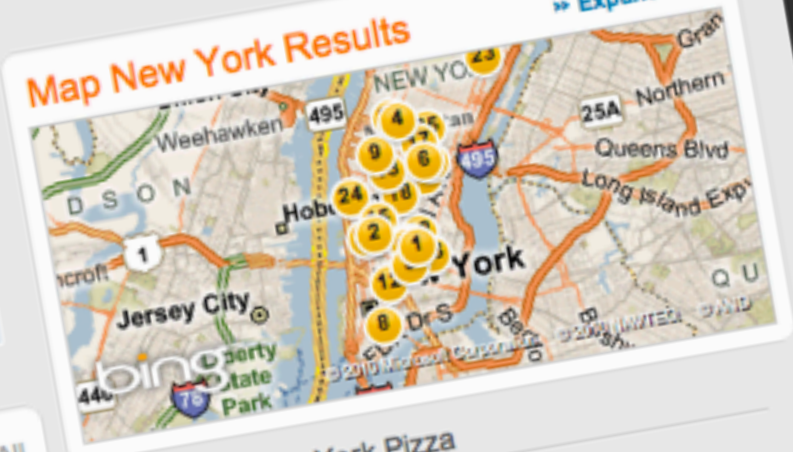
1.3 miles

★★★★★ (117)

1.2 miles

★★★★★ (72)

Map New York Results



Sponsored New York Pizza

Chuck E. Cheese's

Book Your Child's Birthday Party Online
Today At Chuck E Cheese's!

● **Pizzanini**
133 2nd Ave, New York, NY 10003
(212) 979-6381
» Website

● **York Villa Pizza**
1477 York Ave, New York, NY 10075
(212) 535-2224
» Website

● **Underground Pizzeria**
205 Pearl St Frnt, New York, NY 10038
(212) 425-8770

● **La Ristorante**

YP.com en quelques chiffres

- 23 millions visiteurs uniques/mois
- 2 millions recherches/jours
- +48 millions requêtes/jours
- +1500 requêtes/s
- 30 Mbit/s (200 Mbit/s d'Akamai)

AVANT

- Java/EJB3
- Problèmes de design de la plateforme
- Design fortement basé sur les sessions pas "horizontally scalable"
- 125 000 lignes de code
- Aucun test
- Difficulté à ajouter de nouvelles fonctionnalités
- Manque de contrôle sur la structure des URL

APRES

- Performance et stabilité acceptable
- Nombre de serveurs identique
- - de 20 000 lignes de code (avec les tests!)
- Pas de sessions (stateless)

- Migration faite en 2006-2007
- Conception => mise en production : 1 an
- Développement : 3 mois
- Terminé dans les temps
- Jamais plus de 5 développeurs

Ca bouge!

Ruby usage has grown **40%**
among North American
developers from **2008 to 2009**

Evans Data

+ 400 % en 5 ans

développeurs Ruby (2008 - 2013)

Gartner Group, mars 2008

Levées de fond

- \$10M - Heroku - Mai 2010
- \$19M - Engine Yard - Octobre 2009
- \$6M - New Relic - Novembre 2008
- \$15M - Engine Yard - Juillet 2008
- \$3M - Heroku - Mai 2008

Alors pourquoi Rails ?

- Un langage
- Un framework
- Une communauté
- Des outils
- ...

Cadeau ?

30 jours RPM Gold

Sophia2010

(sensible à la casse)



www.camilleroux.com
contact@camilleroux.com

Crédits photos

- <http://www.flickr.com/photos/kandyjaxx/2012468692/>
- <http://www.flickr.com/photos/kh-67/3564168600/>
- <http://www.flickr.com/photos/ecstaticist/2589723846/>