



How the EAST Was Won

Akira Matsuda

Hello, Modern Web!

**I'm very much honored
to be here!**

Here.

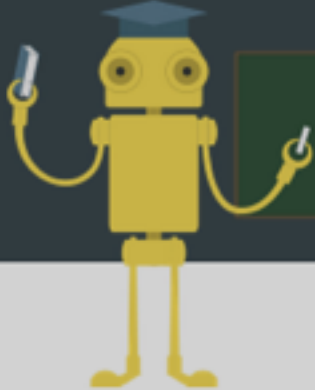
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Keynote Speaker




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松田明
Ruby 和 Rails 核心開發者



唐鳳
Haskell 與 Perl 6 核心貢獻者

! ?

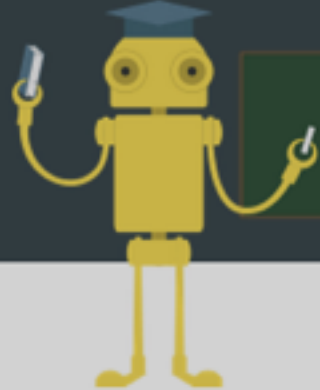
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I'm Sorry, I'm Not a 言語之父

Today I'm Going to Talk About Ruby



Ruby之父

Ruby之父

Matz

Ruby之父



Yukihiro Matsumoto

@yukihiro_matz FOLLOWS YOU

→ Rubyのパパ

📍 島根県Matz江市

🔗 rubyist.net/~matz/

🕒 Joined February 2009

松?

- Matz: 松本 (Matsumoto)
- Me: 松田 (Matsuda)

Even an Airport in Taipei Is Matz



I'm Not a Ruby之父

- 🌐 But I'm rather a Ruby之子

me

🌐 **Akira Matsuda (松田 明)**



@a_matsuda



amatsuda



amatsuda

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Public activity



Akira Matsuda

amatsuda

Freelance

Tokyo, Japan

ronnie@dio.jp

https://twitter.com/a_matsuda

Joined on May 26, 2008

1.2k

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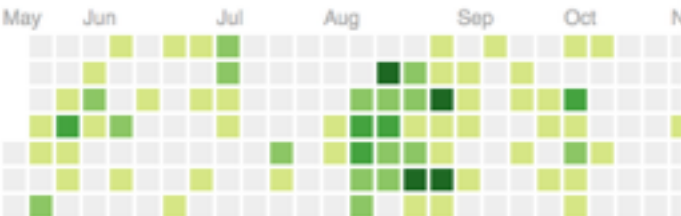
Public contributions

May Jun Jul Aug Sep Oct N

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Summary of Pull Requests, issues opened, and commits. [Learn more.](#)

Contributions in the last year

701 total

May 15, 2014 – May 15, 2015

Long

13

August 25


Contribution activity



amatsuda

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Akira Matsuda
amatsuda

Freelance
Tokyo, Japan
ronnie@dio.jp
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Rails

Organizations

- RAILS
- cookpad
- grooves
- Asakura.rb
- b
- R
- JAPAN
- 雷
- ЯК

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amatsuda

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Haml



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Contributions in the last year

Longest streak: 13 days (August 25)

Contribution activity

RubyKaigi



amatsuda

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Akira Matsuda
amatsuda

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Tokyo, Japan
ronnie@dio.jp
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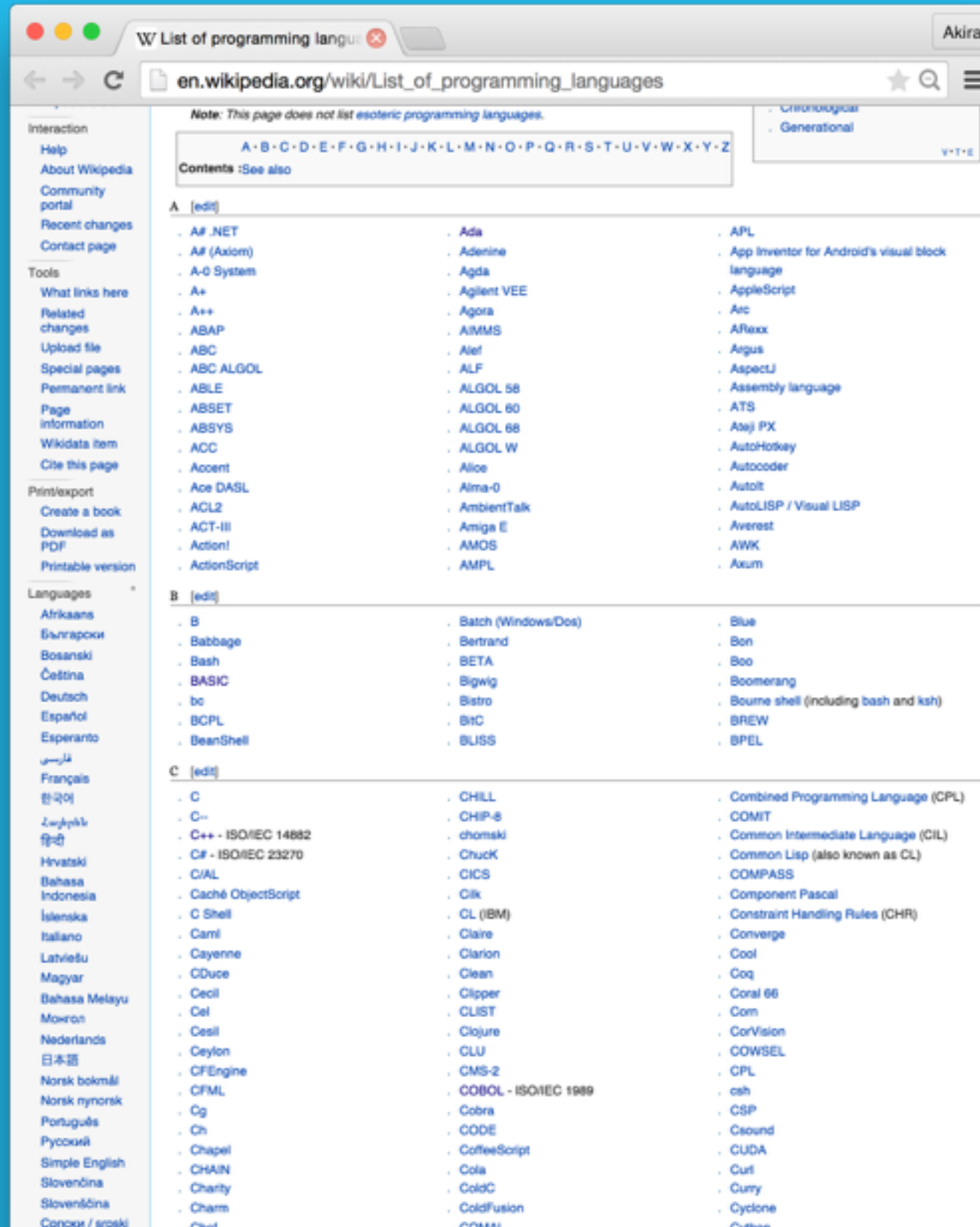
Contribution activity

**Q. Are You a Ruby
Programmer?**

**Q. Who here have
never used Ruby
before?**

**There are so many
programming
languages**

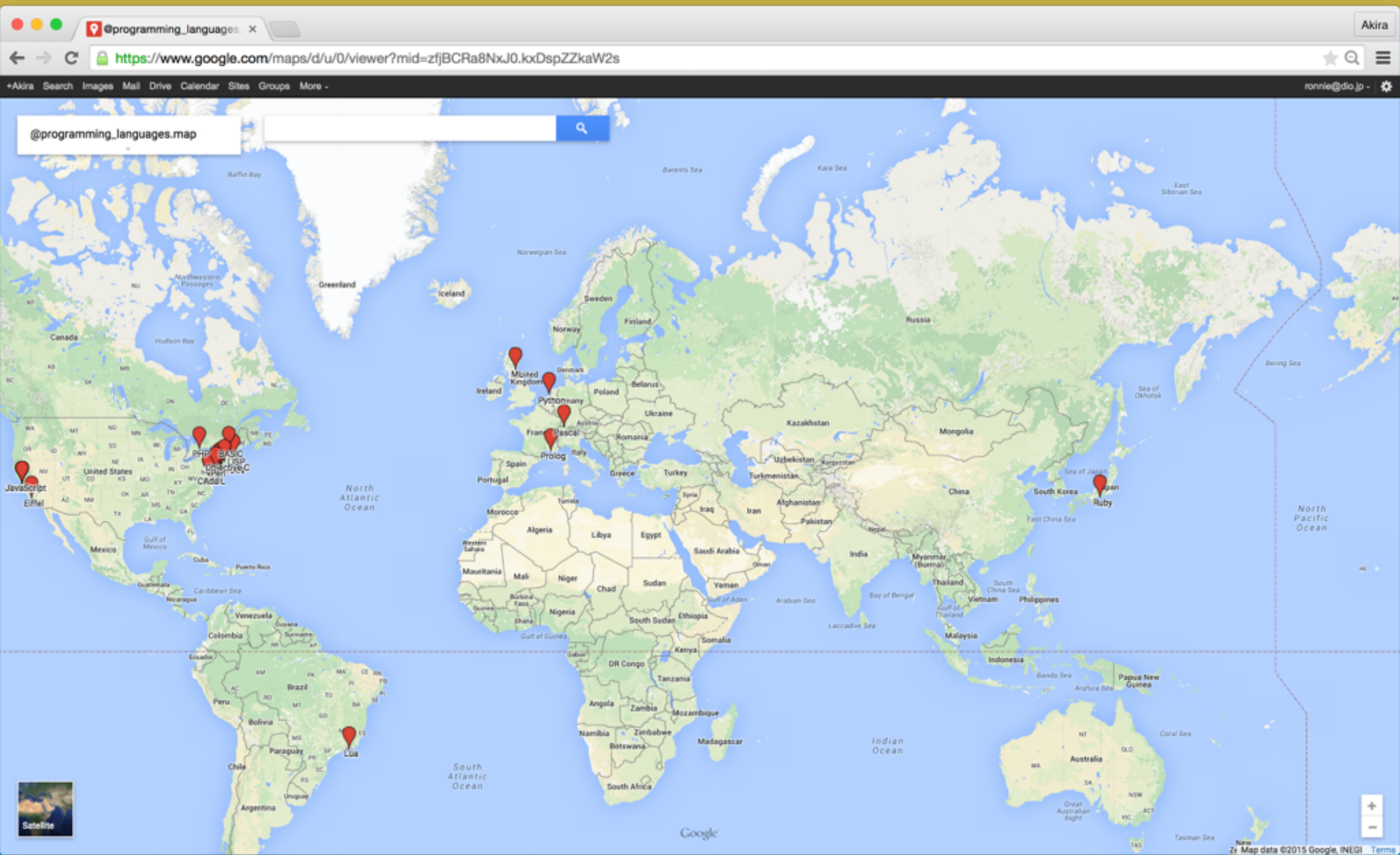
List of programming languages



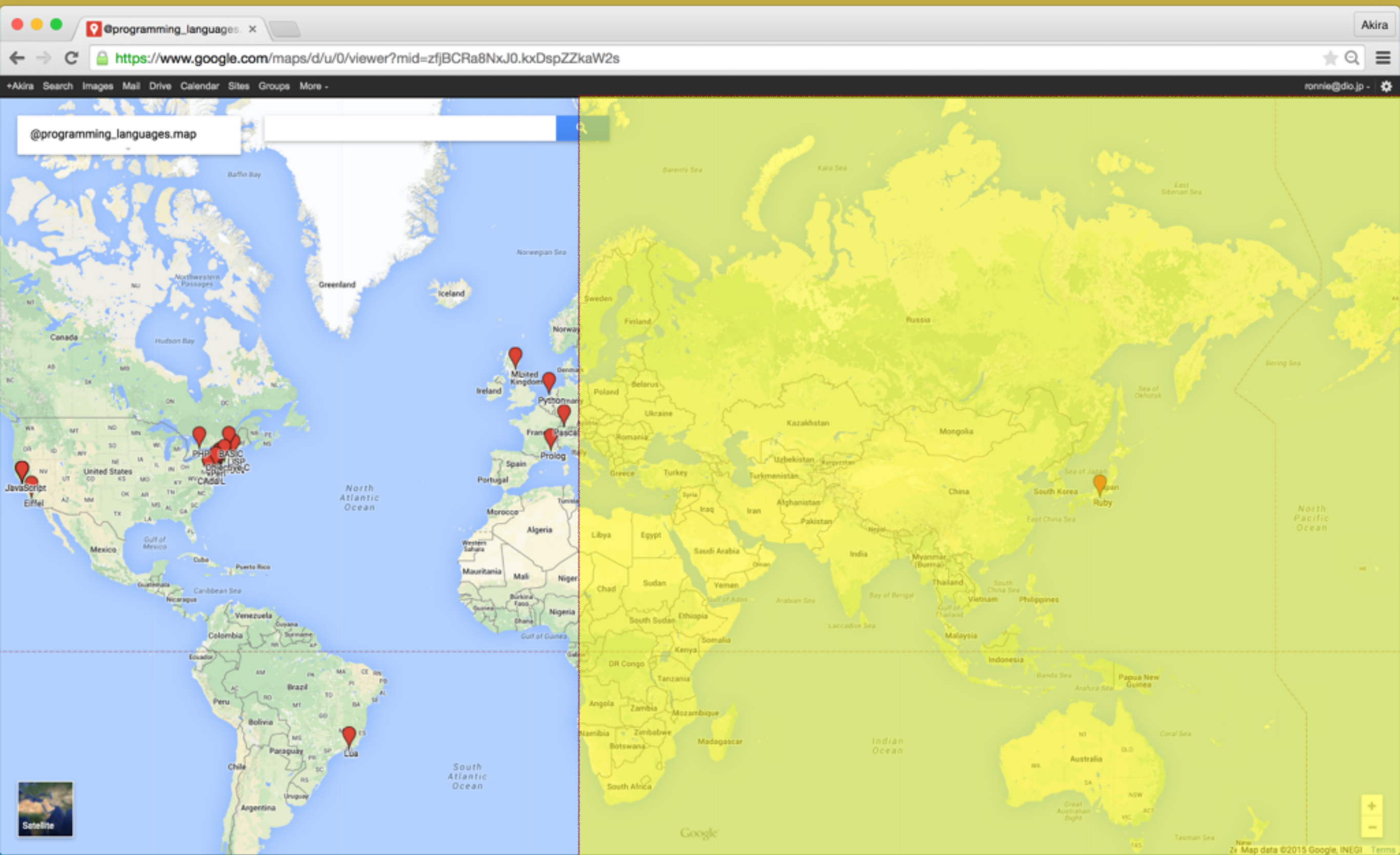
@languages.map

[https://www.google.com/
maps/d/u/0/viewer?
mid=zfjBCRa8NxJ0.kxDsp
ZZkaW2s](https://www.google.com/maps/d/u/0/viewer?mid=zfjBCRa8NxJ0.kxDspZZkaW2s)

@languages.map



@languages.map



Ruby

- 🌐 **Very Unique Language**
- 🌐 **Made in Japan!**
- 🌐 **The creator “Matz” is a Japanese**
- 🌐 **The Only Language in this Map that was Made in Asia**

Ruby Was Made in Asia

- 🌐 But that's not the reason why Ruby became popular
- 🌐 Even in Japan, Ruby wasn't very popular before "Ruby on Rails"
- 🌐 Became popular in US, then reverse-imported to Japan

So Why Ruby Became Popular?

- 🌐 **Because people liked Ruby's philosophy**

Ruby's Design Philosophy

**“Ruby is designed to make
programmers happy.”**

–Matz

I'm not saying that,

- 🌐 Ruby is the only language that can make you happy
- 🌐 I promise that Ruby will make you happy

Happy?

- 🌐 **What does “happy” mean?**
- 🌐 **How can a programming language make us happy?**

History of Ruby



In the Beginning,

🌐 1993年02月14日:

Matz thought,

“Let there be a language,”

and Keiju named it “Ruby”.

Design Concept

- **Pure Object Oriented**
- **Scripting Language**

Nothing New

- 🌐 **No new paradigm**
- 🌐 **A curation of existing good parts of other languages**

Ingredients of Ruby

“Ruby = Lisp + Smalltalk + Perl + C”

–Matz, at RubyKaigi 2013

Ruby's Design Philosophy

**“Designed to Make
Programmers Happy”**

–Matz, 2000

Ruby Is Optimized for Developers

**Where almost every other
language is optimized for
computers**

Ruby Focuses on Productivity

**Where almost every other
language focuses on
execution efficiency**

Ruby's Syntax

- **Concise, succinct syntax**
- **=> Feels natural to humans**

Feels Natural

- 🌐 **Feels like our natural language**
- 🌐 **English**

Ruby < English

**Ruby = Lisp + Smalltalk + Perl + C
+ English**

Natural

- 🌐 **Write what you think, then it should work**
- 🌐 **And so the code reads very natural to other people**

Ruby Feels Natural

🌍 => **Productivity** ↗ ↗  ✨ ✨

🌍 => **Maintainability** ↗ ↗  🎉

Ruby Is Flexible

- 🌐 **Everything is an Object**
- 🌐 **You can monkey-patch anything!**

You Can Even Change the Way

1 + 1 Works! (but please don't do this)

- 🌐 **% ruby -e "p 1 + 1"**

#=> 2

- 🌐 **% ruby -e "Fixnum.class_eval {
def +(n) self - n; end }; p 1 + 1"**

#=> 0

Isn't This Flexibility Dangerous?

- 🌐 **Yes, it is**
- 🌐 **Users can easily shoot your own legs in Ruby**
- 🌐 **But who does such a stupid thing?**

Ruby Trusts the Users

- 🌐 **Ruby gives you powerful tools (e.g. meta programming)**
- 🌐 **Which helps users a lot**
- 🌐 **Gives users almightiness and universal feeling**

The First Public Release

- 🌐 1995年12月21日:

The First Public Release

- 🌐 20 years ago!

And Matz said,

“Let there be communities”

Communities

Ruby Communities == Mailing Lists

Mailing Lists

- 1995年: ruby-list (Japanese, for users)

ruby-list ML

- **As soon as he published his first release, he created a mailing list**

Mailing Lists

- 1995年: ruby-list (Japanese, for users)
- 1997年: ruby-dev (Japanese, for core developers)

ruby-dev ML

- 🌐 **“Let the core developers be gathered to one place”**
- 🌐 **Matz called the ML “ruby-dev”**

Mailing Lists

- 🌐 1995年: ruby-list (Japanese, for users)
- 🌐 1997年: ruby-dev (Japanese, for core developers)
- 🌐 1998年: ruby-talk (English)

ruby-talk ML

- 🌐 **“Be fruitful and increase in number and fill the computers on the earth”**
- 🌐 **And there were non-Japanese users**

Matz's Community Design

- 🌐 He created some mailing lists, and called them “communities”
- 🌐 He separated users and core developers
- 🌐 He created English speaking community as well

And Matz said,

“Let there be books”

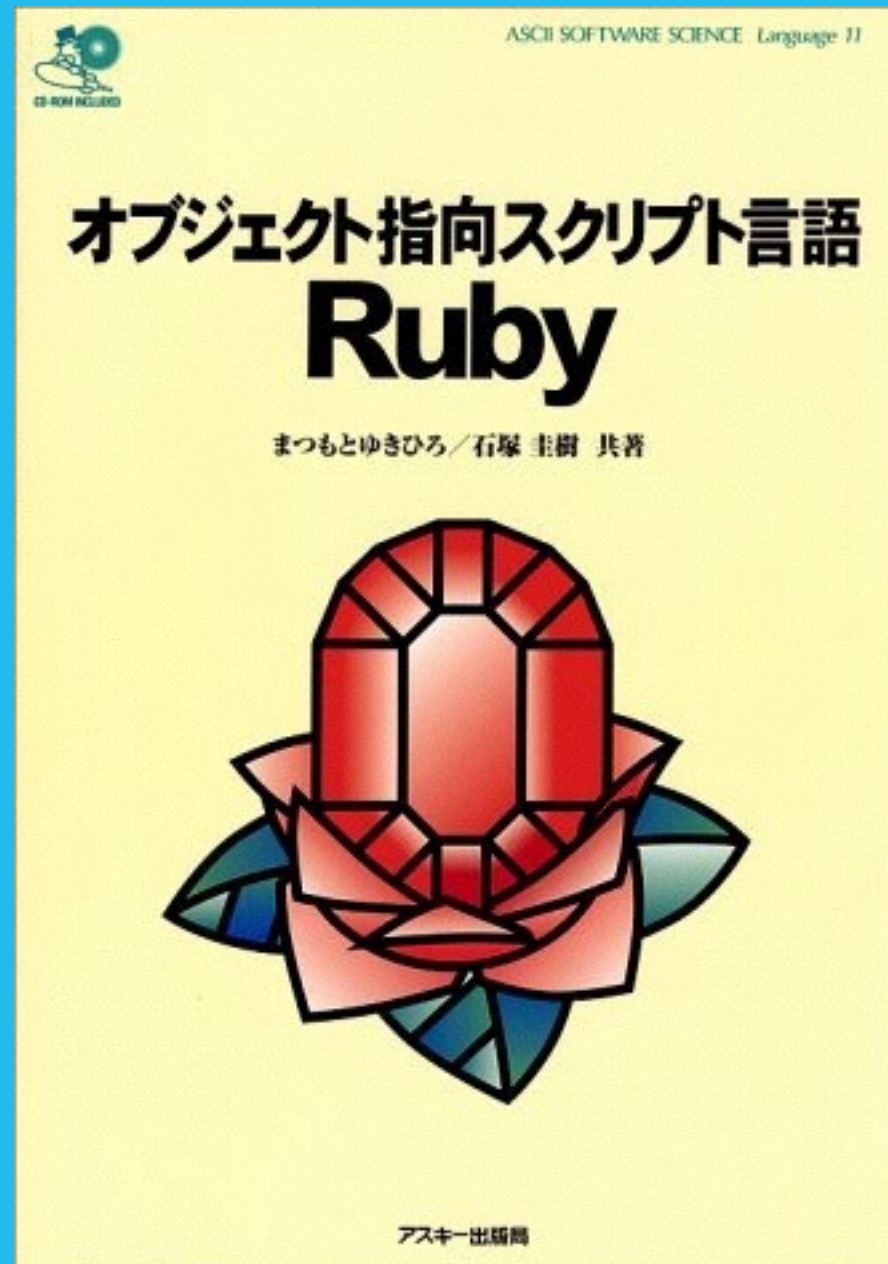
Books

- 🌐 1999年:

オブジェクト指向スクリプト言語Ruby
(Object Oriented Scripting Language Ruby)

- 🌐 Written by Matz himself, and Keiju the godfather of Ruby
- 🌐 Written in Japanese

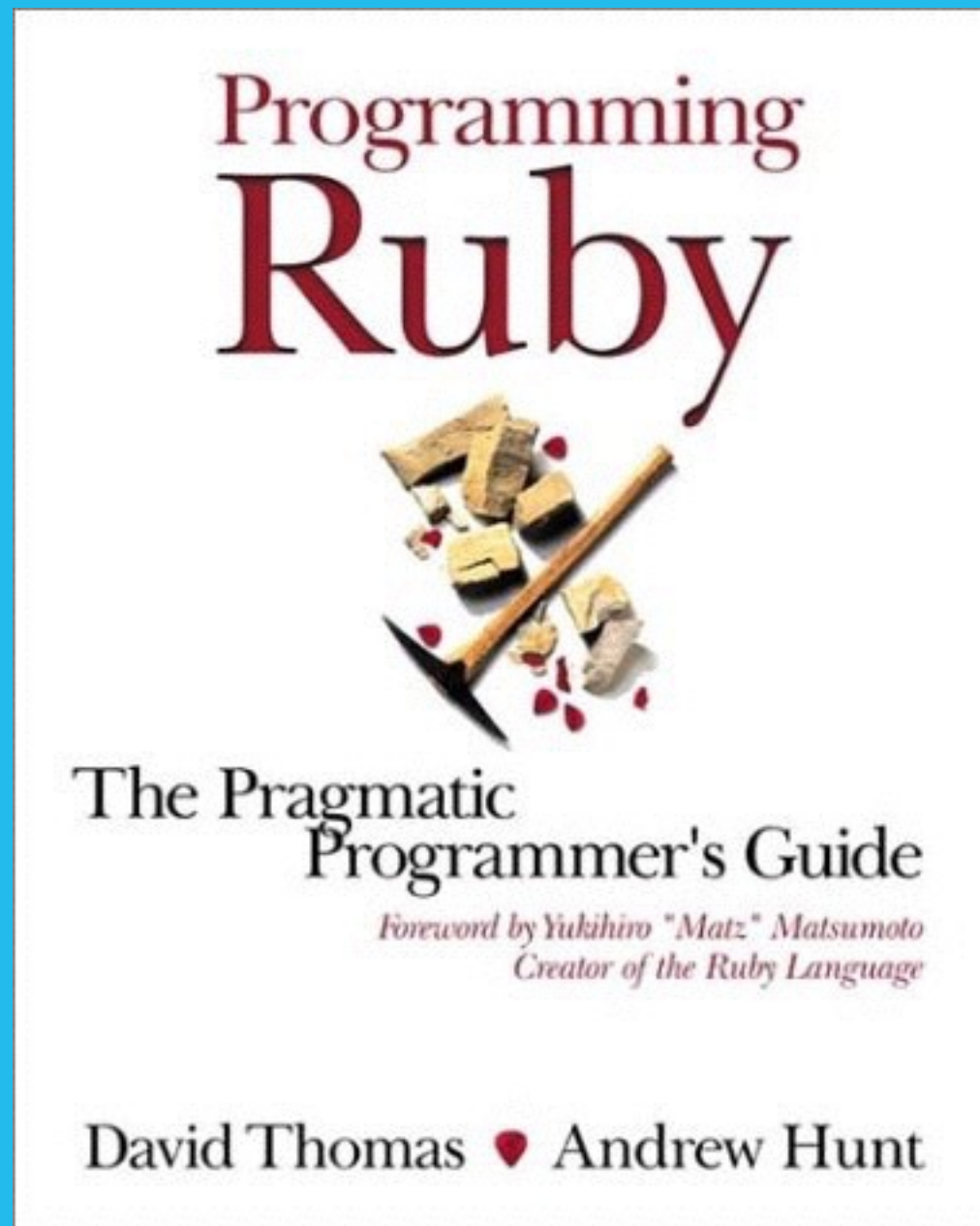
The “mustard coloured” book



Books

- 2000年: Programming Ruby
- Written by Dave Thomas & Andrew Hunt
- Written in English

The pick-axe book



The Language Spread Rapidly

- 🌐 **Because the book was great**
- 🌐 **Because Ruby < English**

And Matz said?

“Let there be conferences”

Did he?

No, this is not true.

And Matz said?

~~“Let there be conferences”~~

Ruby Conferences

- 🌐 2001年: The 1st RubyConf (US)
- 🌐 2003年: The 1st EuRuKo
(Europe)
- 🌐 2006年: The 1st RubyKaigi
(Japan)

Ruby Conferences

- ✓ Ruby conferences were kicked off by the English-speaking community

And Matz said?

**“Let there be packaging
system”**

And Matz said?

**~~“Let there be packaging
system”~~**

Packaging System

- 2003年: RubyGems
 - at RubyConf in US

Ruby Packaging System

- ✓ The Ruby packaging system called “RubyGems” was created by the community in a conference

And Matz said?

“Let there be web framework”

And Matz said?

~~“Let there be web framework”~~

The Web Framework

The Web Framework



Ruby on Rails

- 🌐 Created by DHH (David Heinemeier Hansson)
- 🌐 2004年: First Release

Ruby on Rails in 2015

- **DHH still rules**
- **10-20 Core members**
- **4000 Contributors**

Ruby Web Framework

- ✓ The Ruby web framework called “Ruby on Rails” was created by DHH, and being maintained by the community

Ruby on Rails

- 🌐 **Convention over Configuration**
- 🌐 **Don't Repeat Yourself**
- 🌐 **Code Generator**

Ruby on Rails

- **Aggressively focuses on productivity**

Rails' Philosophy

“Write Less Code”

–DHH

Rails Ruby

- 🌐 DHH's philosophy perfectly matches Ruby's philosophy
- 🌐 Rails became possible because DHH found Ruby

Rails Is a Framework that Extends “the Ruby Way”

- 🌐 And so, it's named
“**Ruby** on Rails”,
not “Rails on Ruby”

Sophisticated & Powerful Plugin System

- **Based on Ruby's flexibility**
- **Sometimes Monkey-Patchability**

For Example

Adding #like Query Method to Model Classes

```
module ActiveRecord
  module ChainRelation
    module LikeBuilder
      def build_where(opts, other = [])
        super.map {|r| Arel::Nodes::Matches.new r.left, r.right}
      end
    end
  end

  def like(opts, *rest)
    extend(LikeBuilder).where(opts, *rest).dup
  end
end

module QueryMethods
  def where_with_like(opts = nil, *rest)
    if opts.nil?
      spawn.extend(ChainRelation)
    else
      where_without_like(opts, *rest)
    end
  end
  alias_method_chain :where, :like
end
end
```

Adding #like Method to Model Classes (Result)

Developer.like(name: 'Mat %').to_sql

***#=> "SELECT * FROM developers
WHERE name like 'Mat%'"***

Enabling Controller Actions to Take Method Parameters

```
module ActionController
  class Base
    def send_action(method_name, *args)
      return send method_name, *args unless args.blank?

      values = method(method_name).parameters.map(&:last).map {|k| params[k]}
      send method_name, *values
    end
  end
end
```

Enabling Controller Actions to Take Method Parameters (Result)

```
class UsersController < ApplicationController
  def show(id)
    @user = User.find(id)
  end
end
```

try “action_args” gem if you liked this!

Because Ruby Is Such a Flexible Language

**Rails has so many powerful
plugins**

Because Rails Has the Plugin System

- 🌐 **The Framework doesn't have to do everything**
- 🌐 **Rails provides the core features, and delegates other features to plugins**

Rails Plugins

- **Authorization / authentication**

- **File Upload**

- **Pagination**

- **Alternative ORMs**

- **Template Engines**

- **Testing**

- **...**

Because Rails Has the Plugin System

- 🌐 **Rails encourages people to write their own plugins**
- 🌐 **Rails trusts the users, just as Ruby trusts the users**

Because Users Can Create Powerful Plugins

- 🌐 **The community has got so many talented plugin creators**

Standing on Shoulders of Giants

- 🌐 **The community helps your app development!**

Don't Repeat Yourself

- 🌐 If you want to develop a typical feature for your app, you may find a plugin for that on the web
 - 🌐 Don't Repeat Someone's Hack
- 🌐 If you find a bug on the language, framework, or a plugin, just fix it and send a patch
 - 🌐 Don't Let Others Repeat Your Bug

The Whole Community Can Be DRY

🌍 **That's the Ecosystem**

Don't Repeat Yourself

Matz Just Created the Language and the Communities

- **Then the community created everything else**

“How the East Was Won”



-
- 🌐 **Ruby was created in Japan**
 - 🌐 **And raised in the community**

“How the East Was Won”

- 🌐 **“East” alone didn’t win**
- 🌐 **But the whole “community”
won the current status of
Ruby**

The Community

What “the Community” is like today?

The Mailing Lists?

The Ruby Core?

The Rails Core?

The Ruby Community

**“A group of Rubyists
Communicating over the
Internet”**

–Me, 2015


**We Programmers Can Communicate
in Programming Language!**

**Not only in natural language
such as English**

**We Programmers Can Communicate
in Programming Language!**

**Such activity is called
“Social Coding”**

Social Coding

- **Open-source**
- **Communication with code**
- **GitHub** 
- **Built with Ruby**

Ruby < English

- 🌐 **Concise, succinct**
- 🌐 **Reads natural**

Ruby Social Coding

- 🌐 **Works great as a
“Social Coding” protocol**
- 🌐 **A true “Modern Web”
Language**

You Can Join!

- 🌐 **The community is there in your computer!**
- 🌐 **Don't be afraid!**

You Can Join!

- 🌐 **Language Barrier?**
- 🌐 **No! We're all speakers of Ruby!**

The Ruby Community

“A group of **Rubyists
Communicating over the
Internet”**

–Me, 2015

Q. Who Here Thinks You Are a Rubyist?

- 🌐 **Or who here wants to be a
Rubyist?**
- 🌐 **How can you be a Rubyist?**

What is Rubyist?

How Can You be a Rubyist?

- 🌐 The word “Rubyist” was created by Matz himself in May 1997

<http://blade.nagaokaut.ac.jp/cgi-bin/scat.rb/ruby/ruby-list/2908>

Definition of “Rubyist”

- **People whoever have some positive feeling toward Ruby.**
- **Not defined by Ruby programming skill**
- **A skilled Ruby programmer shall be called “a ruby hacker”**

For example,

- Who promote Ruby to other people
- Who answer others' questions
- Who organize local or online communities
- Who write Ruby books
- Who encourage the author of Ruby
- The author of Ruby ^^;;




It's so easy to become a Rubyist

- 🌐 If you like Ruby
- 🌐 Just tweet “I like Ruby!”
- 🌐 Then you're a Rubyist!

Just tweet “I like Ruby!”

- You can easily do it with Ruby!
- `% gem install t`
- `% t authorize`
- `% t update “I like Ruby!”`

Maybe not the happiest language for computers

-  **It's true that Ruby might not be the fastest language for computers**
-  **But fast enough to run web apps**
-  **And it's improving!**

The Community is Not Just a Virtual Thing

 **I said, it's a group of people.**

Meet the Community!

 **Conferences**

 ***.rb**

Asakusa.rb



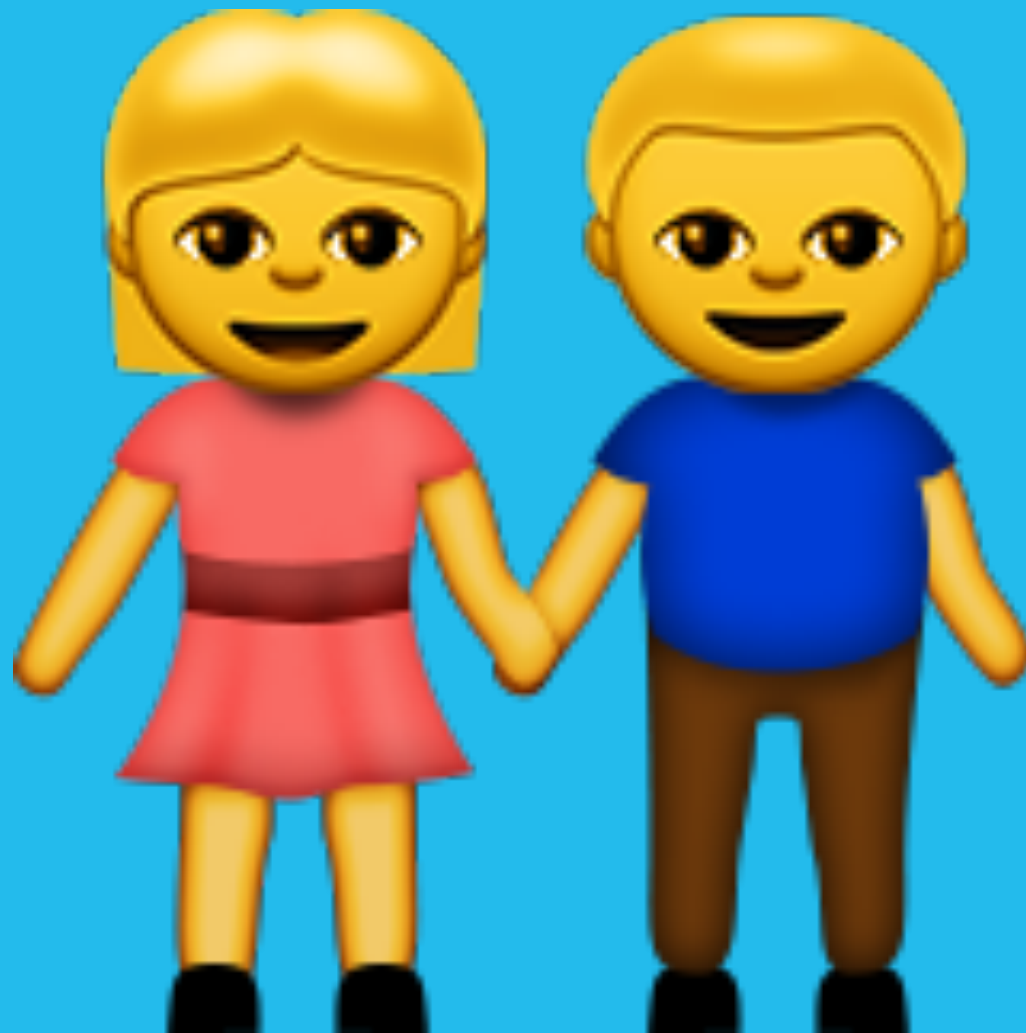
Asakusa.rb.map

- 🌐 **Local community**
- 🌐 **Friends from all over the world**
- 🌐 **#rubyfriends**

Welcome to Ruby!



Be Nice to Each Other



Enjoy Hacking



**May RUBY be with
YOU!**