

HELLO !

RUBY

DYNAMIC INTERPRETED SCRIPTING LANGUAGE



WHAT'S RUBY

DYNAMIC INTERPRETED SCRIPTING LANGUAGE



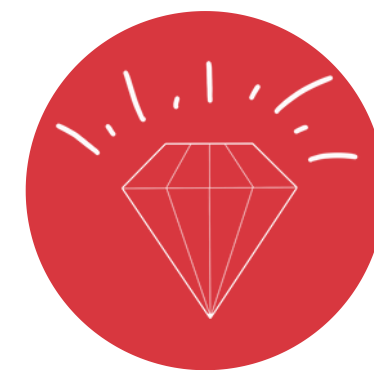
Yukihiro
Matsumoto
aka Matz



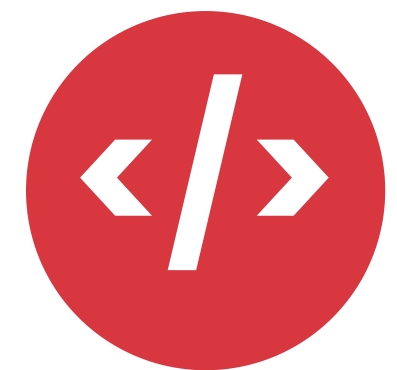
Minimal
Syntax like
Plain English



Truly Object
Oriented



Gems
Package
Manager



Amazing
Developer
Ecosystem

WHAT MADE RUBY



**Yukihiro
Matsumoto**



Primarily Influenced by Perl



Smalltalk like Message
Passing System



The Inner Workings of
Emacs and Lisp Language
Influenced the Object Model



QUICK LOOK AT RUBY

DYNAMIC INTERPRETED SCRIPTING LANGUAGE

```
# FizzBuzz in Ruby

(1..100).each do |number| # Loop from 1 to 100
  if number % 15 == 0
    # If the number is divisible by both 3 and 5 (i.e., 15), print "FizzBuzz"
    puts "FizzBuzz"
  elsif number % 3 == 0
    # If the number is divisible by 3, print "Fizz"
    puts "Fizz"
  elsif number % 5 == 0
    # If the number is divisible by 5, print "Buzz"
    puts "Buzz"
  else
    # If none of the above conditions are met, print the number itself
    puts number
  end
end
end
```



RUBY ON RAILS

THE WEB FRAMEWORK THAT HELPED
BUILD UNICORNS



WHAT'S RAILS

A REBEL



David
Heinemeier
Hansson



Opinionated
Model-View-
Controller
Framework



Considered a
Rebel in the
Web-Dev
space



Helped Build
Unicorns like
GitHub, Airbnb
and Shopify



Batteries
Included
Framework

HOTWIRE

HTML OVER THE WIRE



STRADA:

Web views in native applications to communicate more seamlessly with the mobile app layer



STIMULUS:

Stimulus is a JavaScript framework designed to augment HTML by automatically connecting elements to JavaScript objects.



TURBO:

Turbo is designed to make navigation and form submissions faster without reloading the page again.

WORLD ON RAILS

HOW IS RAILS USED IN THE
REAL WORLD



GitHub

As Main Backend
Technology



Airbnb

One of the early
adopters of RoR

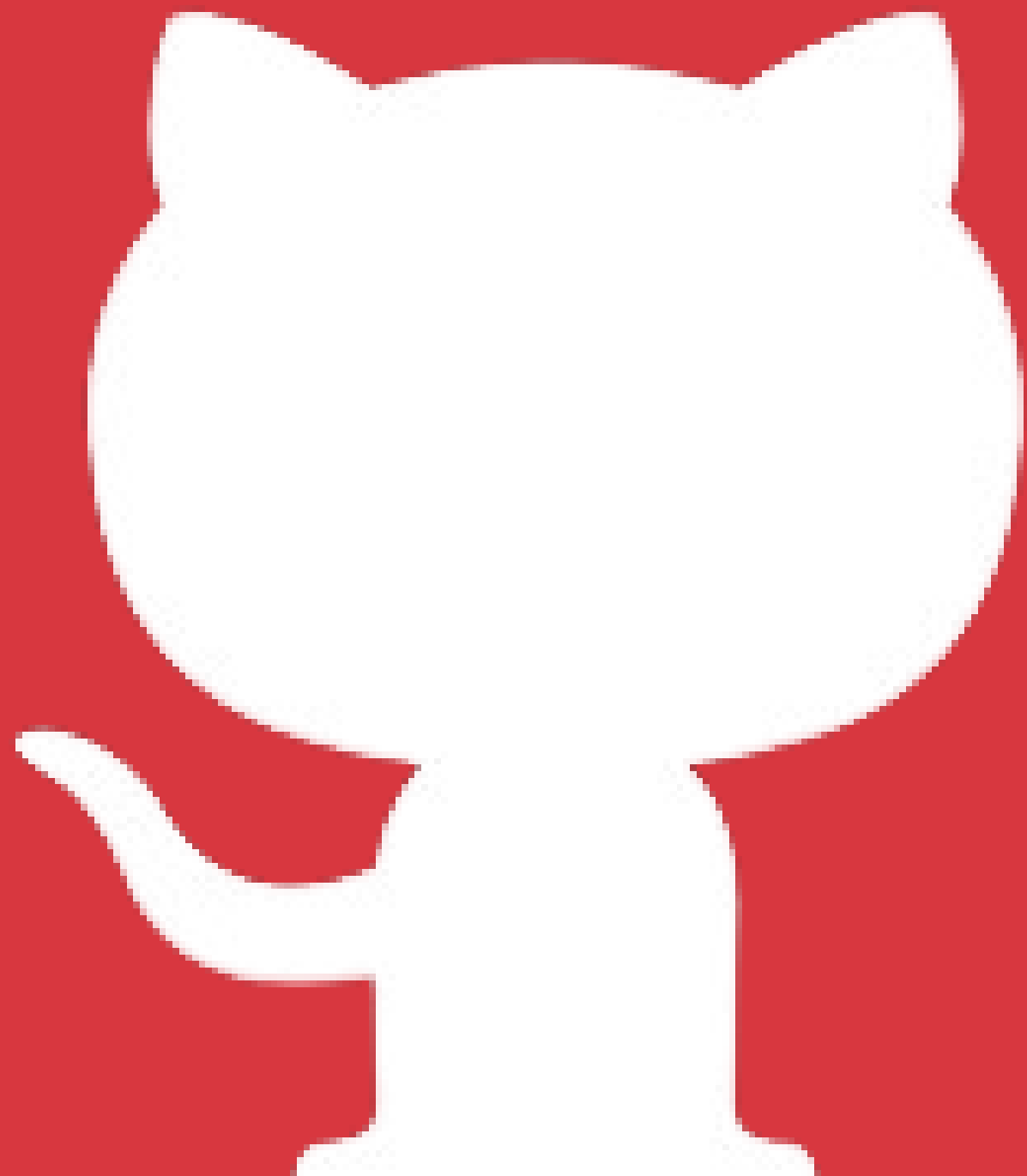


Shopify

Utilized RoR's
scalable
architecture

GITHUB

FOUNDED IN 2008



- Utilizes RoR as its main backend technology
- RoR includes a robust testing mechanism.
- RoR maintains a win-win relationship with GitHub by:
 - Actively contributing to Rails
 - Keeping RoR updated

AIRBNB

FOUNDED IN 2008



- One of the early adopters of RoR
- RoR's convention-over-configurations expedited the process
- Various builtin in features such as Active Record framework and Rails migrations simplified the development process for Airbnb

SHOPIFY

FOUNDED IN 2006



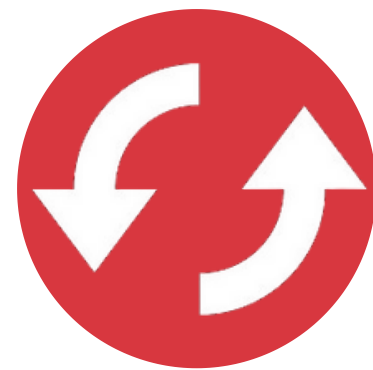
- Also utilized RoR's convention-over-configuration principle
- RoR's scalable and modular architecture helped Shopify handle its sudden spike in users at the time of its launch

LIMITS ON RAILS

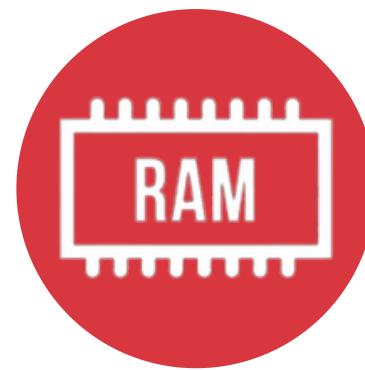
CAUSE NOTHING'S PERFECT



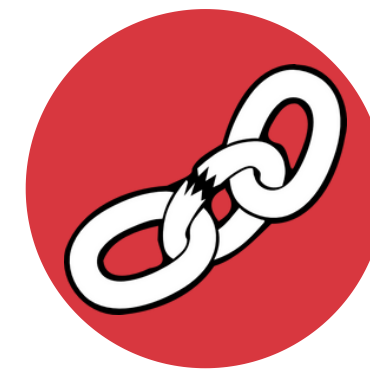
Performance



Concurrency



Memory
Usage



Tight Coupling



Deployment
and
Scalability

PERFORAMANCE

- Ruby performance is often cited as a limitation, especially for CPU-intensive applications.
- It is slower compared to compiled languages like C or C++, or even some other interpreted languages like Java and C# under certain conditions.

CONCURRENCY

- Ruby's concurrency model, due to its Global Interpreter Lock (GIL), can be a bottleneck for multi-threaded applications.
- This makes it challenging to fully utilize the capabilities of multi-core processors for parallel execution.

MEMORY USAGE

- Ruby applications can consume a significant amount of memory, especially for larger applications
- This is partially due to its object-oriented nature and garbage collection mechanism.

TIGHT COUPLING

- Rails encourages a certain structure for web applications, which can lead to tight coupling between components.
- This can make it challenging to isolate parts of the application for independent scaling or replacement.

DEPLOYMENT AND SCALABILITY

- While deploying Rails applications has become easier over time, it can still be more complex compared to simpler frameworks or languages.
- Scalability requires a good understanding of both Ruby and Rails, as well as the deployment environment.

SCRIPT ON RUBY

Do you even UTF-8 bro?

- A script that let's you convert char to UTF-8 Binary
- Uses flags to convert into all sorts of types such as Hex, Octal and ASCII.
- It was made as a joke, don't take this too seriously.

PROJECT ON RAILS



TWEET AHEAD

- Simple Web-App That allows you to schedule your tweets
- Features Good, Reliable and most importantly Secure User authentication.
- Let's you connect to multiple twitter accounts.

WHERE TO LEARN MORE?



gramantin/awesome-rails: A curated list of awesome things related to Ruby on Rails

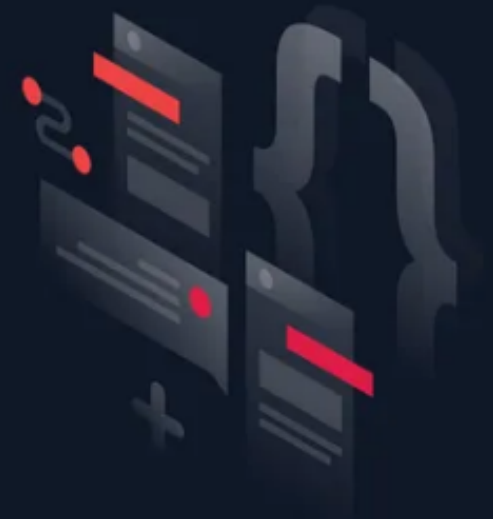
A curated list of awesome things related to Ruby on Rails - gramantin/awesome-rails



Learn Ruby on Rails for Beginners

We'll teach you how to build a real-world application from scratch with Ruby on Rails step by step.

Start Learning Rails →



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THE ODIN PROJECT

Ruby on Rails | The Odin Project

The Odin Project empowers aspiring web developers to learn together for free

 theodinproject.com

Your paragraph text

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I Hope to See Ruby

- Helps World Programmers
 - to be Productive
 - to Enjoy Programming
 - to be Happy

