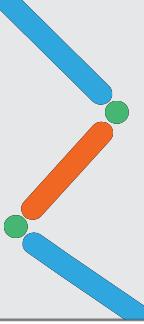


Introduction to Ruby on Rails

Kedarnag M S
Venkata Chaitanya
Anup Kumar Kannur

Qwinix



About Us



Venkat
@vchaitanya55

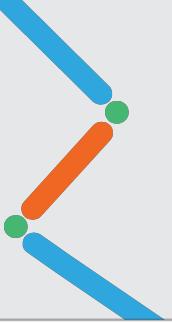


Kedarnag
@kedarnag13



Anup
@akannur

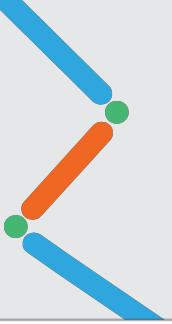




Road Map - Session 1

- 1. The Ruby Programming Language
- 2. A brief history of Ruby
- 3. Philosophy of Ruby
- 4. Who is using Ruby?





Road Map - Session 2

- 5. Let us try Ruby - A walkthrough the language
- 6. Break (10 - 15 Minutes)

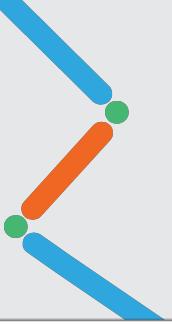




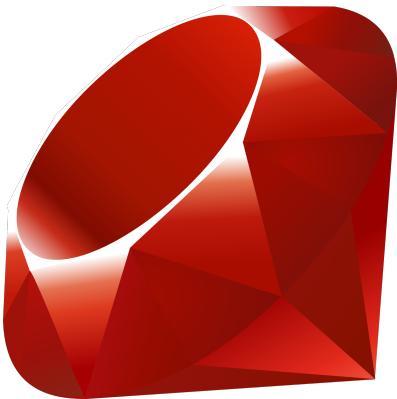
Road Map - Session 3

- 7. Introducing Ruby on Rails - A Web Framework
- 8. A hands on Workshop on Rails.
- 9. Deploying the Rails Application (If Time Permits)
- 10. Q & A



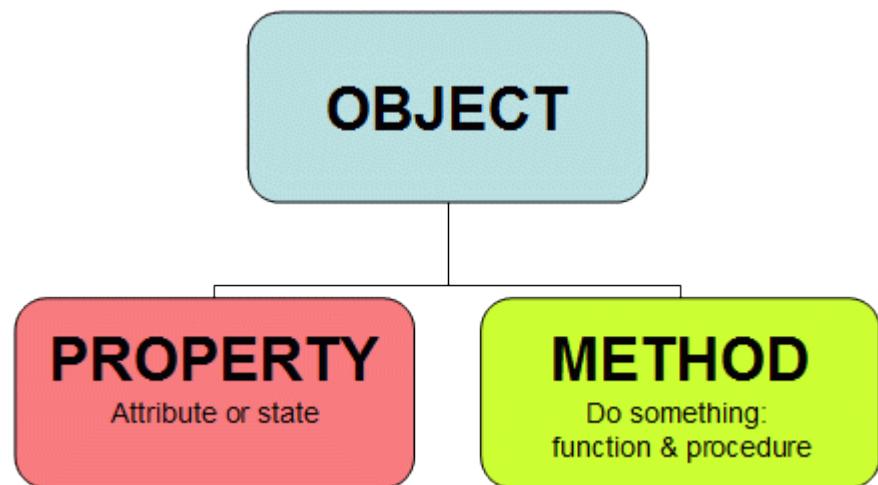


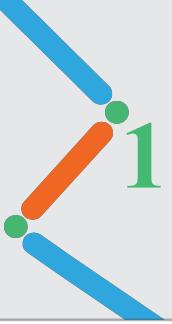
Session 1



<HTML>

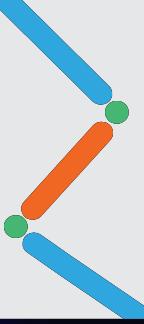
```
<html>
<title>HTML</title>
<body>
This is HTML!
</body>
</html>
```





1. The Ruby Programming Language

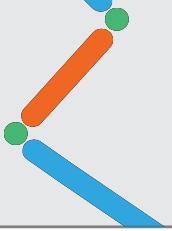
- Dynamic
- Reflective
- Object Oriented
- General Purpose.
- Ruby was influenced by Perl, Smalltalk, Eiffel, Ada, and Lisp.



2. A brief history of Ruby

Creator of Ruby - **Yukihiro Matsumoto**



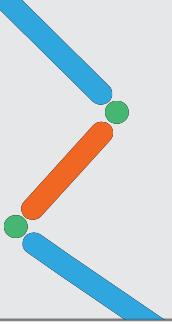


3. Philosophy of the Language

"I believe people want to express themselves when they program. They don't want to fight with the language."

"Programming languages must feel natural to programmers."

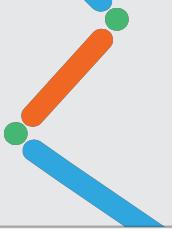
"I tried to make people enjoy programming and concentrate on the fun and creative part of programming when they use Ruby."



3. Philosophy of the Language

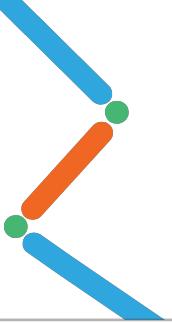
"For me the purpose of life is partly to have joy. Programmers often feel joy when they can concentrate on the creative side of programming, So Ruby is designed to make programmers happy."

"I wanted a scripting language that was more powerful than Perl, and more object-oriented than Python."



Remove Lines that you hate

```
/* Hello World program */  
  
#include<stdio.h> // Required for printf  
  
void main()  
{  
    printf("Hello World");  
  
}
```



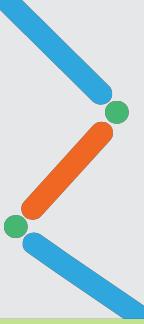
Do More with LESS Code

In Ruby,

puts "Hello World"

Expressive



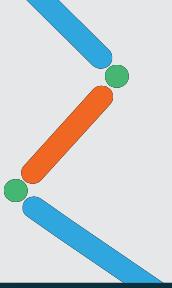


Easy to Understand



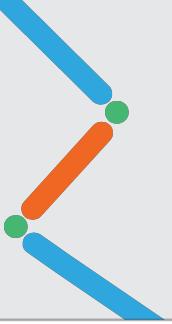
3.times do
 print "Ha"
end

Ha Ha Ha



Run your first Ruby Program

```
→ SJCE-Workshop    ls  
begin.rb  
→ SJCE-Workshop    ruby begin.rb  
Hello SJCE  
→ SJCE-Workshop    █
```

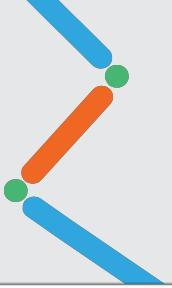


Interpreted

Ruby is executed line by line

So output of a single line/logic can be seen using

irb

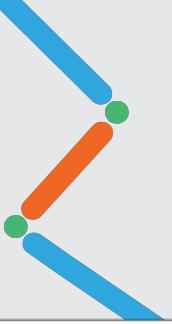


Ruby is interactive

Opening up irb in the terminal

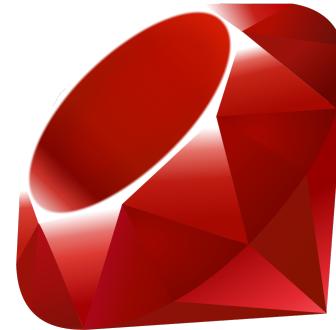
```
→ SJCE-Workshop irb
>> puts "Welcome to Ruby Workshop"
Welcome to Ruby Workshop
=> nil
>> █
```

Instead of executing as a program file. Useful for learning, debugging.

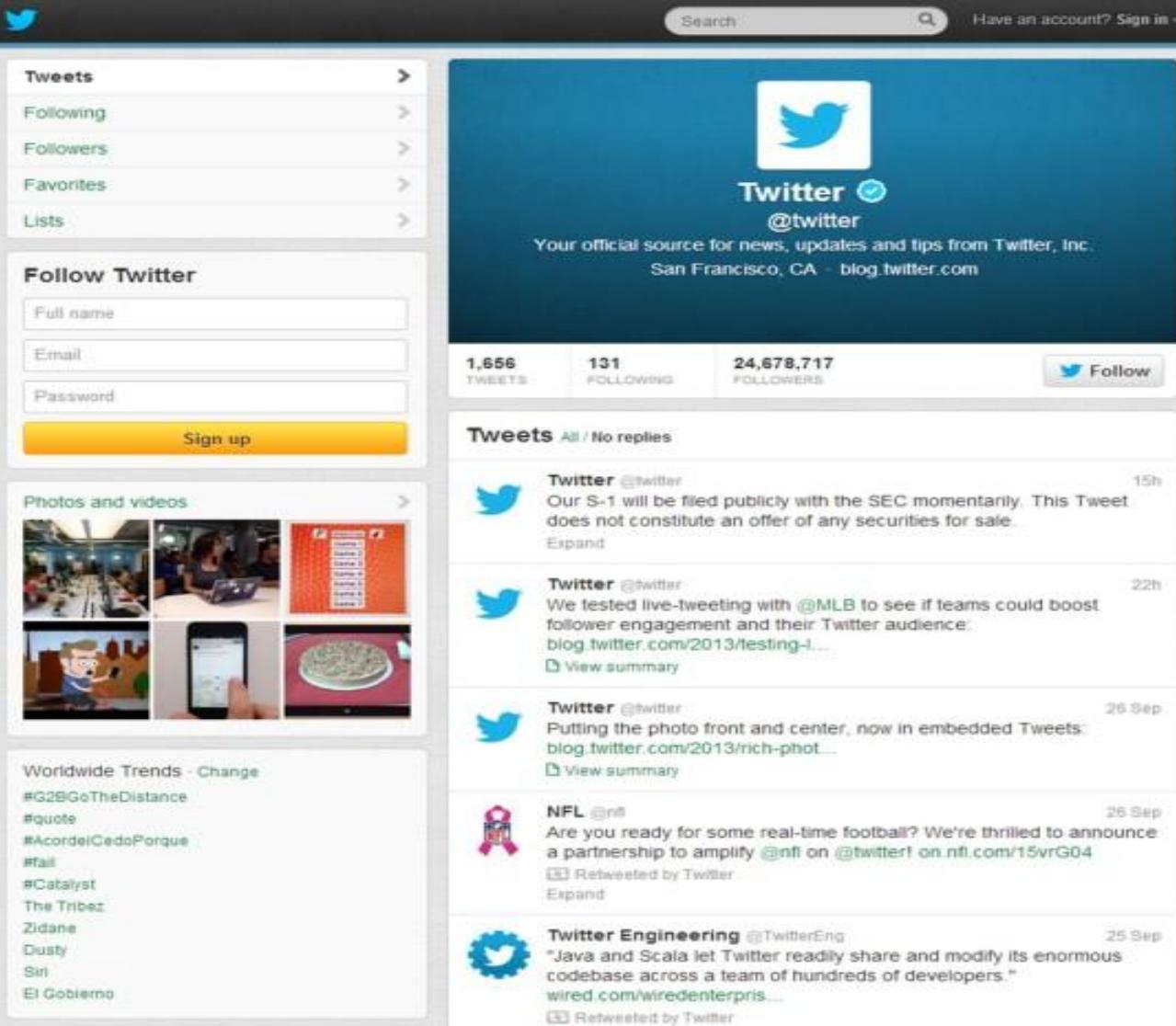


4. Who is using Ruby?

Few applications built using “Ruby on Rails”



Twitter



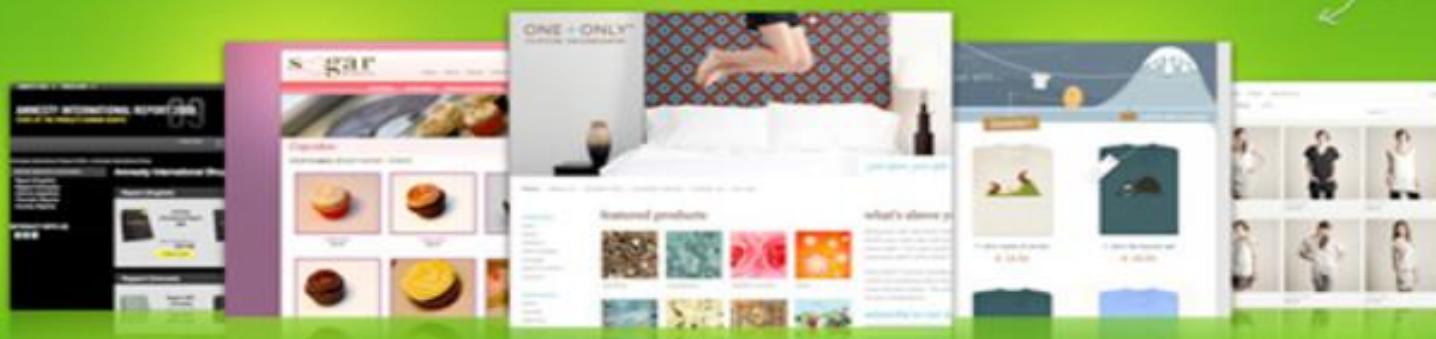
The image shows the Twitter homepage. At the top, there's a navigation bar with a search bar and a "Sign in" link. On the left, a sidebar offers links to "Tweets", "Following", "Followers", "Favorites", and "Lists". Below that is a "Follow Twitter" form with fields for "Full name", "Email", and "Password", and a "Sign up" button. Further down are sections for "Photos and videos" and "Worldwide Trends - Change". The main content area features the Twitter logo and bio: "Your official source for news, updates and tips from Twitter, Inc. San Francisco, CA - blog.twitter.com". It shows stats: 1,656 tweets, 131 following, and 24,878,717 followers, with a "Follow" button. A list of tweets from various accounts follows:

- Twitter @twitter** 15h
Our S-1 will be filed publicly with the SEC momentarily. This Tweet does not constitute an offer of any securities for sale.
[Expand](#)
- Twitter @twitter** 22h
We tested live-tweeting with @MLB to see if teams could boost follower engagement and their Twitter audience.
[blog.twitter.com/2013/testing-l...](#)
[View summary](#)
- Twitter @twitter** 26 Sep
Putting the photo front and center, now in embedded Tweets.
[blog.twitter.com/2013/rich-phot...](#)
[View summary](#)
- NFL @nfl** 26 Sep
Are you ready for some real-time football? We're thrilled to announce a partnership to amplify @nfl on @twitter! on [nfl.com/15vrG04](#)
[Retweeted by Twitter](#)
[Expand](#)
- Twitter Engineering @TwitterEng** 25 Sep
Java and Scala let Twitter readily share and modify its enormous codebase across a team of hundreds of developers.
[wired.com/wiredenterprise...](#)
[Retweeted by Twitter](#)

Shopify

[Feature Tour](#)[Examples](#)[Support](#)[FAQ](#)[Pricing & Signup](#)[Login](#)

Create your own online store



these guys did ↴

Fully hosted. Beautiful templates. Setup in minutes.

We take care of hosting, bandwidth, and security, so you can focus on your business.

[Pricing & Sign up ▾](#)[RISK-FREE 30 DAY TRIAL](#)[or take the tour](#)

Gorgeous Storefront

Each Shopify Store comes with a variety of beautiful and professional themes to choose from.



Shopping Cart

Every Shopify Store comes with its own shopping cart & streamlined checkout.



100% Customizable

Use your own HTML & CSS and have complete control over the look and feel of your store.



Super Secure

We have a dedicated team of security experts that make sure your site is as secure as possible.

airbnb

The screenshot shows the Airbnb search interface for Shimla, India. On the left is a map of Shimla and surrounding areas, with numerous red pins marking rental locations. The map includes labels for Shimla, Chakkar, Dhalai, Kandaghat, Taradevi, Ghanahatti, Baldeyan, Mashobra, Fagu, and Chail Sanctuary. A legend on the map indicates 'Search When I Move the Map' with a checked checkbox. The top navigation bar includes the Airbnb logo, a search bar with 'Shimla', a 'Browse' dropdown, a user profile for Krishnaprasad, a 'Help' dropdown, and a 'List Your Space' button. The search results show filters for dates (31-10-2014 to 13-11-2014, 1 Guest), room types (Entire Place, Private Room, Shared Room), and price range (\$10 to \$1000+). A 'More Filters' button is available. The results section shows two preview images: one of an interior room with a bed and desk for \$29, and another of an outdoor terrace with a view for \$126.

airbnb

Shimla

Browse

Krishnaprasad

Help

List Your Space

Search When I Move the Map

Dates

31-10-2014

13-11-2014

1 Guest

Room Type

Entire Place

Private Room

Shared Room

Price Range

\$10

\$1000+

More Filters

41 Rentals · Shimla

\$29

\$126

Language and Currency

ata ©2014 Google Terms of Use Report a map error

GROUPON

GROUPON

Collective Buying Power

Visit More Cities • Get Daily Groupon Alerts •

Refer Friends, Get \$10 Contact Us

Daily Deals on the Best in
Dallas

Total dollars saved

\$28,560,798

Total Groupons bought

630,567

Today's Deal

Recent Deals

How Groupon Works

Discussions

Connect

Sign in

Share This Deal: Facebook Tweet Email a Friend

Today's Deal: \$10 for \$20 Worth of Quesa-D-Ya's at Quesa-D-Ya's

\$10

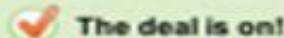
Buy!

Value \$20 Discount 50% You Save \$10

Time Left To Buy
2 days
12 hours
21 minutes



203 bought



Tipped at 7:21AM with 20 bought



The Fine Print

Expires 05/02/2010
2 per person, 1 per order. Tax & gratuity not included. Delivery available for additional \$1.25 not covered by Groupon. No cash back.

Highlights

- Best Take Out in 2008 by Dallas Observer
- Choose from a variety of stuffings and recipes

Discuss the Deal



I have heard great things about this place since it... [more](#)

[Join the discussion!](#)

4 comments

Give the Gift of Groupon!

Available to print or email.

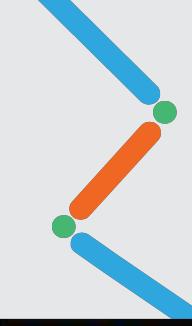
[Buy Groupon Gift Card](#)

Get Your Business On Groupon!



Learn More about how Groupon can help bring tons of customers to your door

Sound Cloud



Your stream on SoundCloud

https://soundcloud.com/stream

Stream Explore Search

Macklemore & Ryan Lewis

Macklemore X Ryan Lewis - Same Love feat. Mary Lambert

11 mins ago

Write a comment...

Like Report Add to set Share Buy on iTunes

2,571,201 24,008 17,497 2,759

Phoenix - Entertainment

Phoenix - Entertainment

24 mins ago

Like Report Add to set Share Preorder Banksy's

10,013,417 19,809 13,183 1,545

Mayer Hawthorne

Her Favorite Song

14 mins ago

Like Report Add to set Share

1,000,000 1,000 1,000 1,000

HEY!

Share your thoughts with us. It'll only take a couple of minutes and will really help us improve.

Who to follow

Tinie Tempah

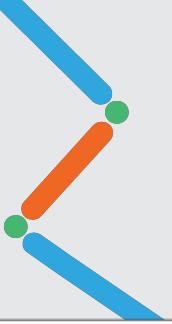
Follow

Icona Pop

Follow

cynamorgan

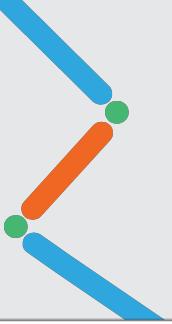
Follow



Flipkart



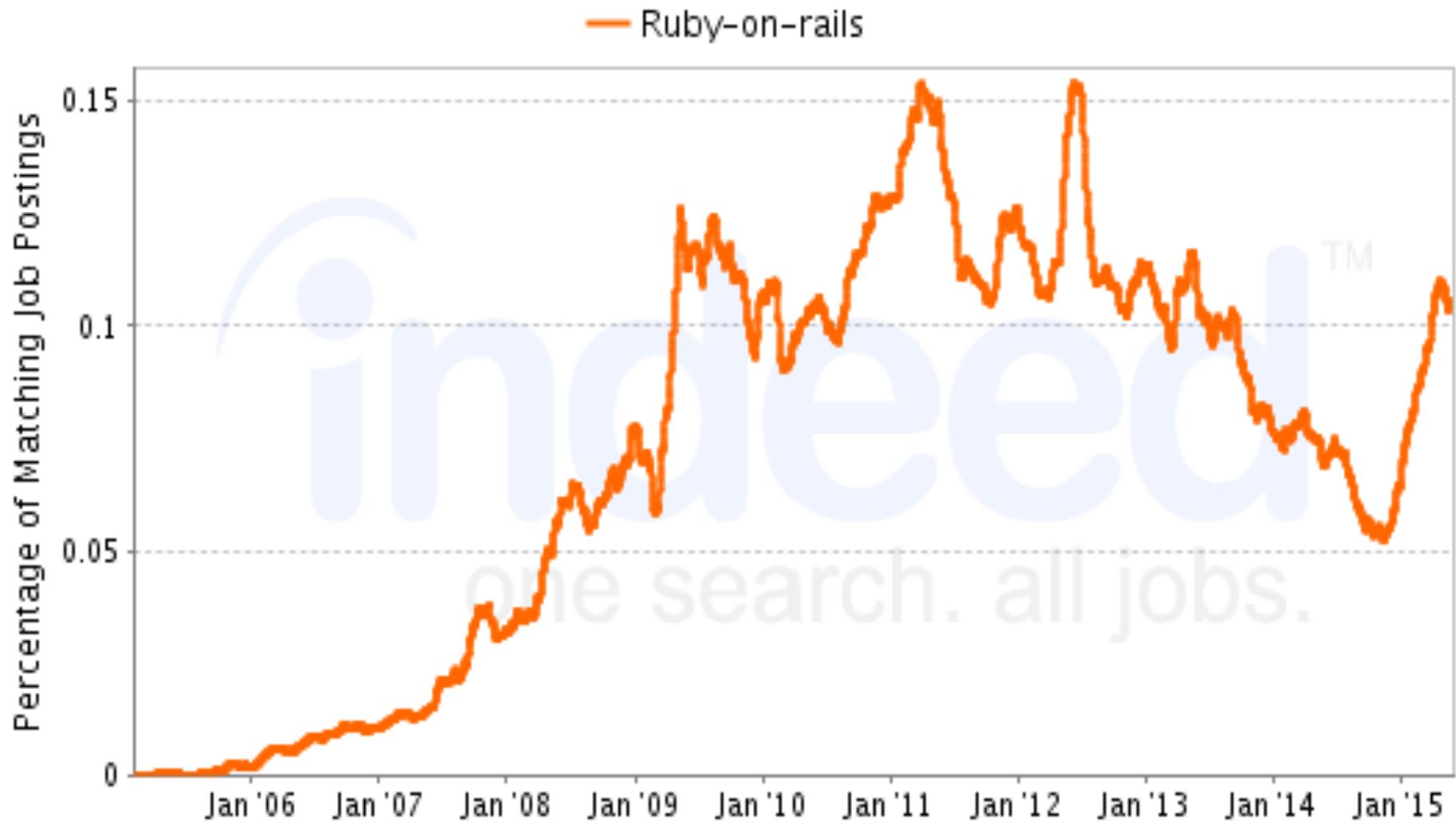
Flipkart - Supply Chain Management is built on Ruby on Rails

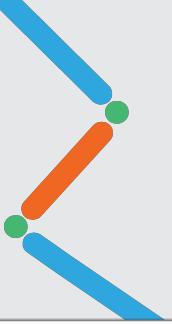


Heroku/Zendesk/Hulu/Github

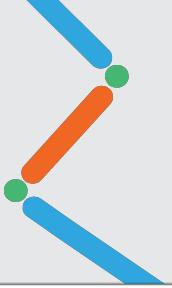


Current Job Trends





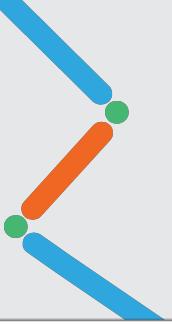
Session 2



5. Let us dive into Ruby

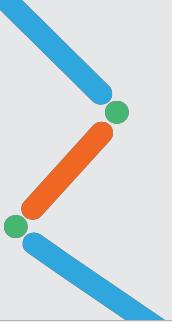


A walkthrough the language



Ruby Syntax

- Naming Conventions for -
 - Variables
 - Constants
 - Methods
 - Class / Modules



Developers Life Made Easy

```
2.odd?
```

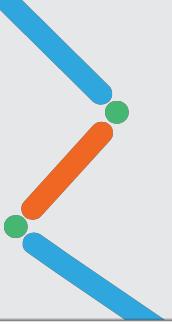
```
=> false
```

```
“Ruby”.length
```

```
=> 4
```

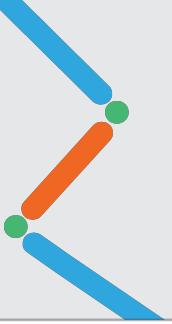


Brackets are optional in Ruby



Strings



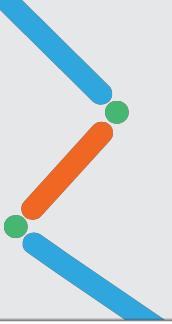


Strings

Let's try -

Get a string and check if it is palindrome.

Hint: use gets to get the input.



Control Structures

Is the weather cold today?

TRUE

Wear something warm.

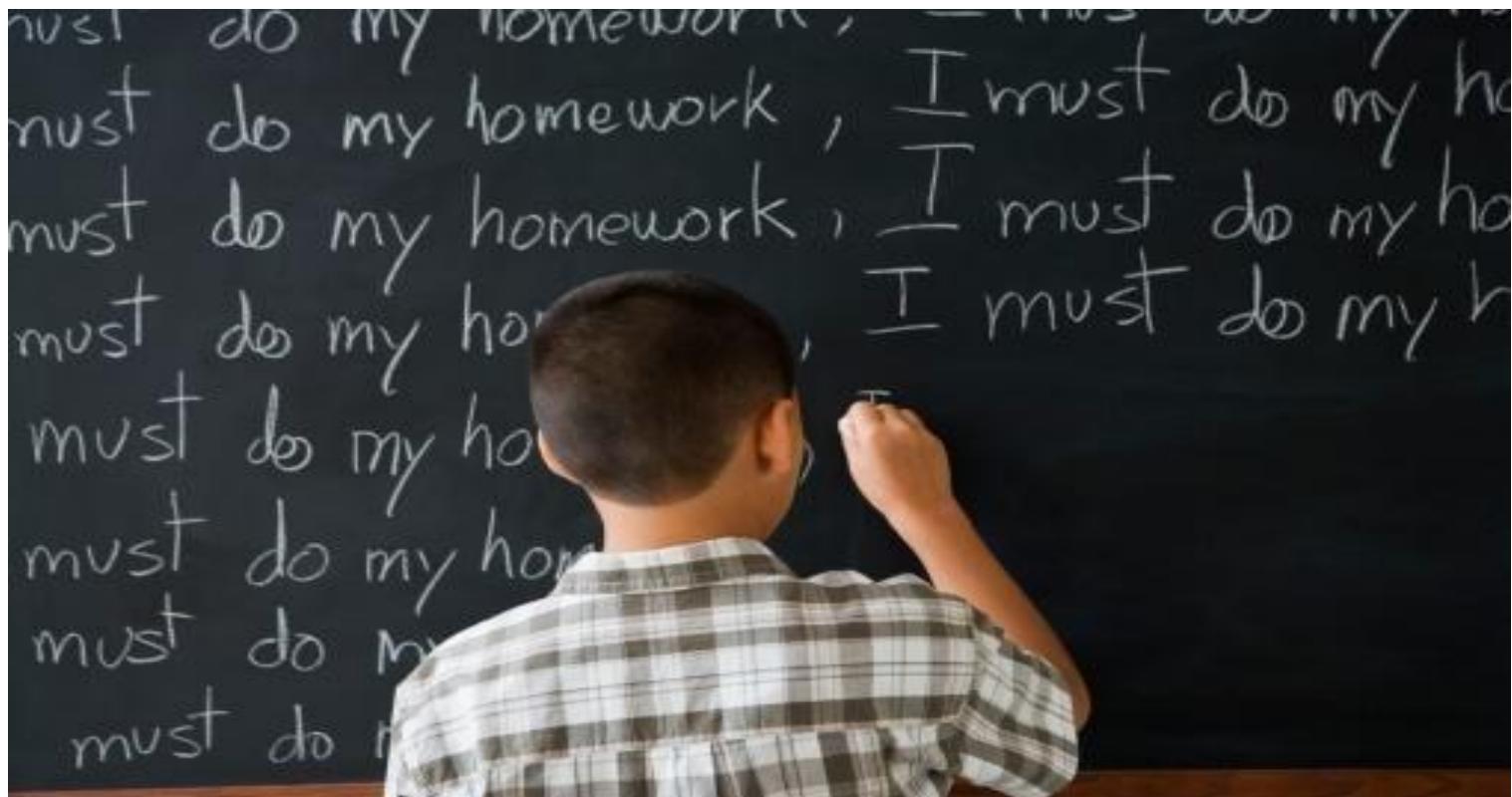
FALSE

Don't wear something warm.

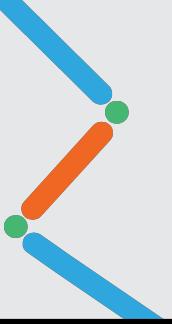
Decision Making



Loops

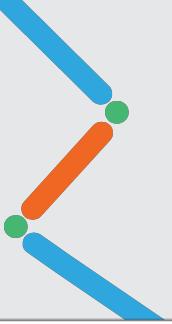


Punishment, fun when you use ruby!



Times

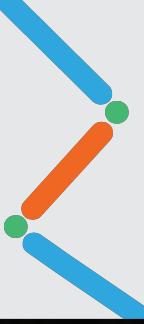
```
20.times do
  puts "This is Ruby workshop!"
end
```



Other Loops in Ruby

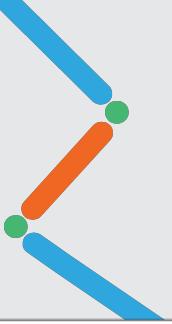
Also, there are

- loop
- while loop
- for loop
- step
- upto



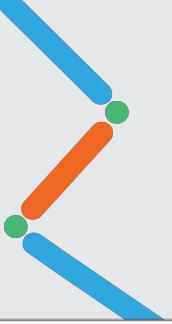
Arrays



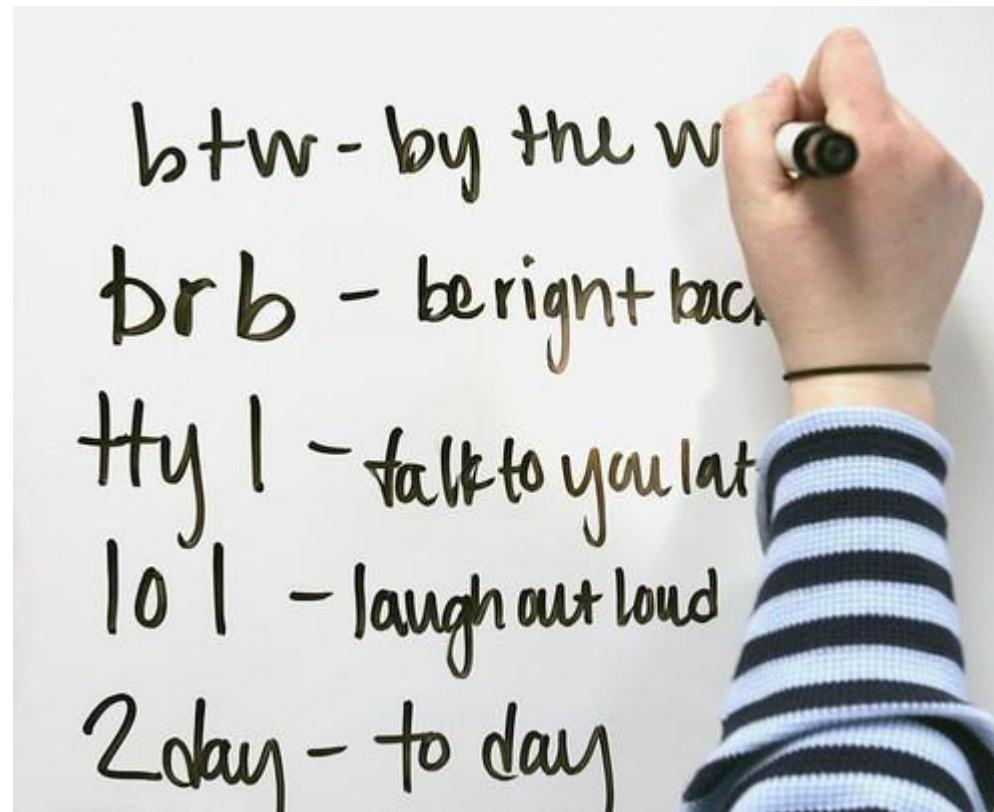


Arrays

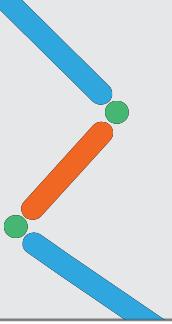
- sized dynamically
- can contain mixed types
- zero-indexed
- can be defined *literally* (inline) e.g.
 - `fruits = ["apple", "banana"]`



Hash



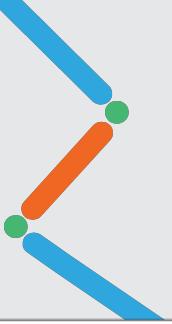
Key-Value Pair



Hash

Also known as...

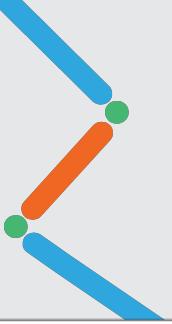
- Map
- Associative Array
- Dictionary
- Key/Value Pair



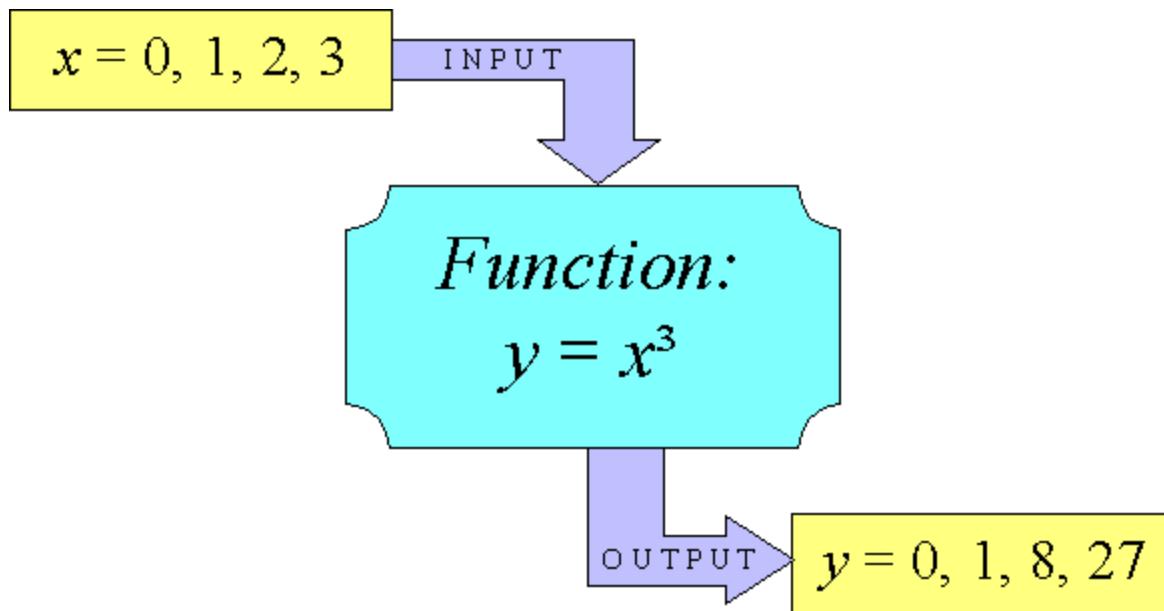
Symbols



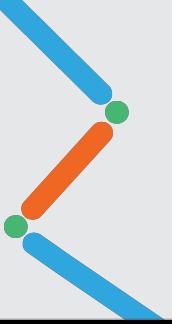
Immutable Strings



Methods



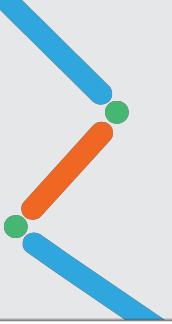
In Ruby we say "Methods"



Method-Example

```
def y(x)
    x**3
end
```

```
y(3) # => 27
y(2) # => 8
```



Built-in Ruby Methods

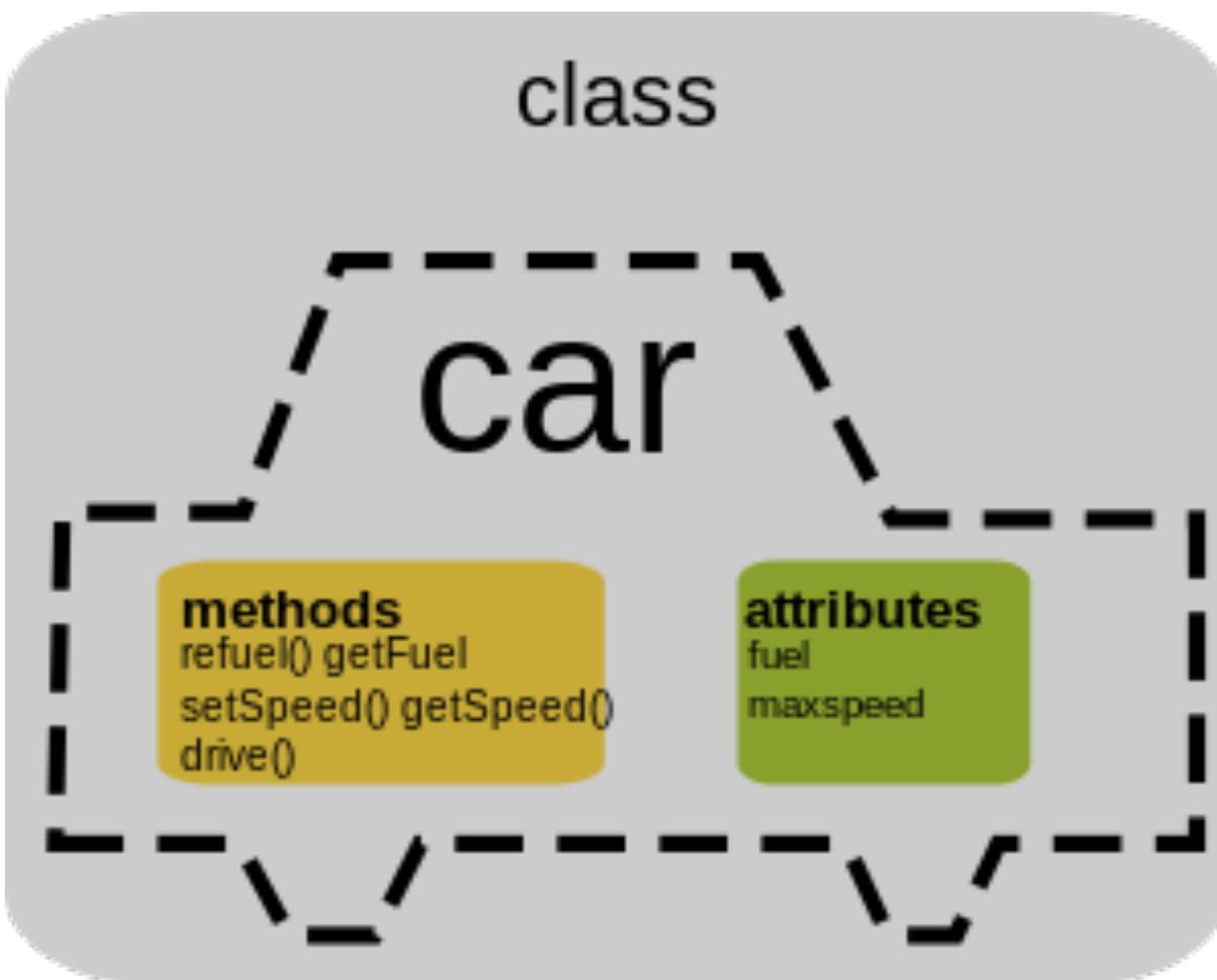
```
2.odd?()
```

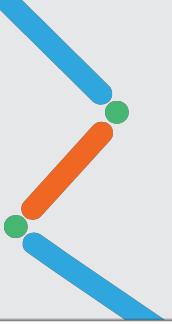
```
=> false
```

```
“Ruby”.length()
```

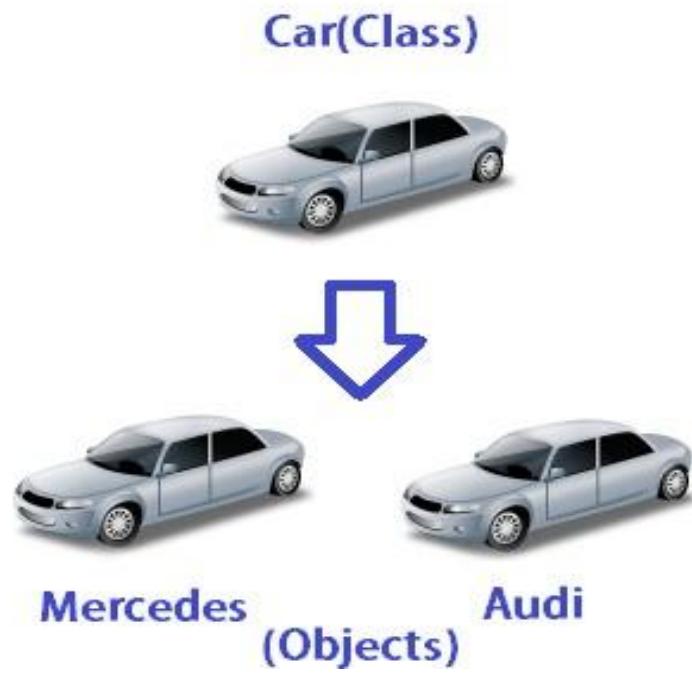
```
=> 4
```

Class

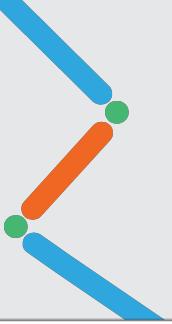




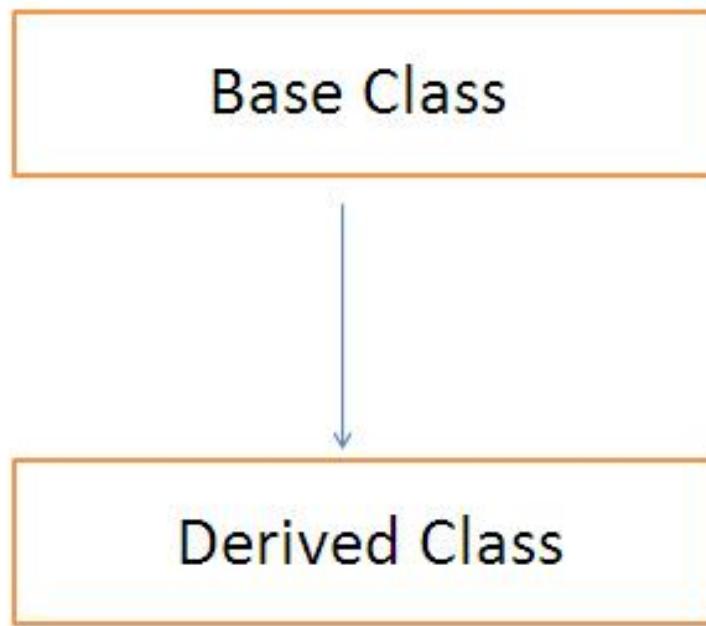
Object



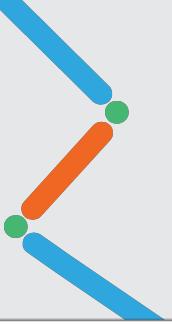
Most things in Ruby are Objects



Inheritance



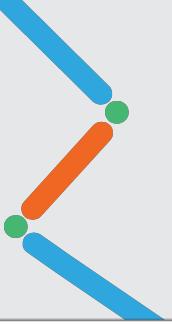
One of the main OOPS Concept



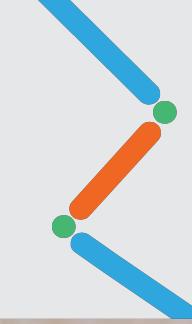
Modules



This is how we achieve Multiple Inheritance in Ruby



Why should you learn Ruby ?



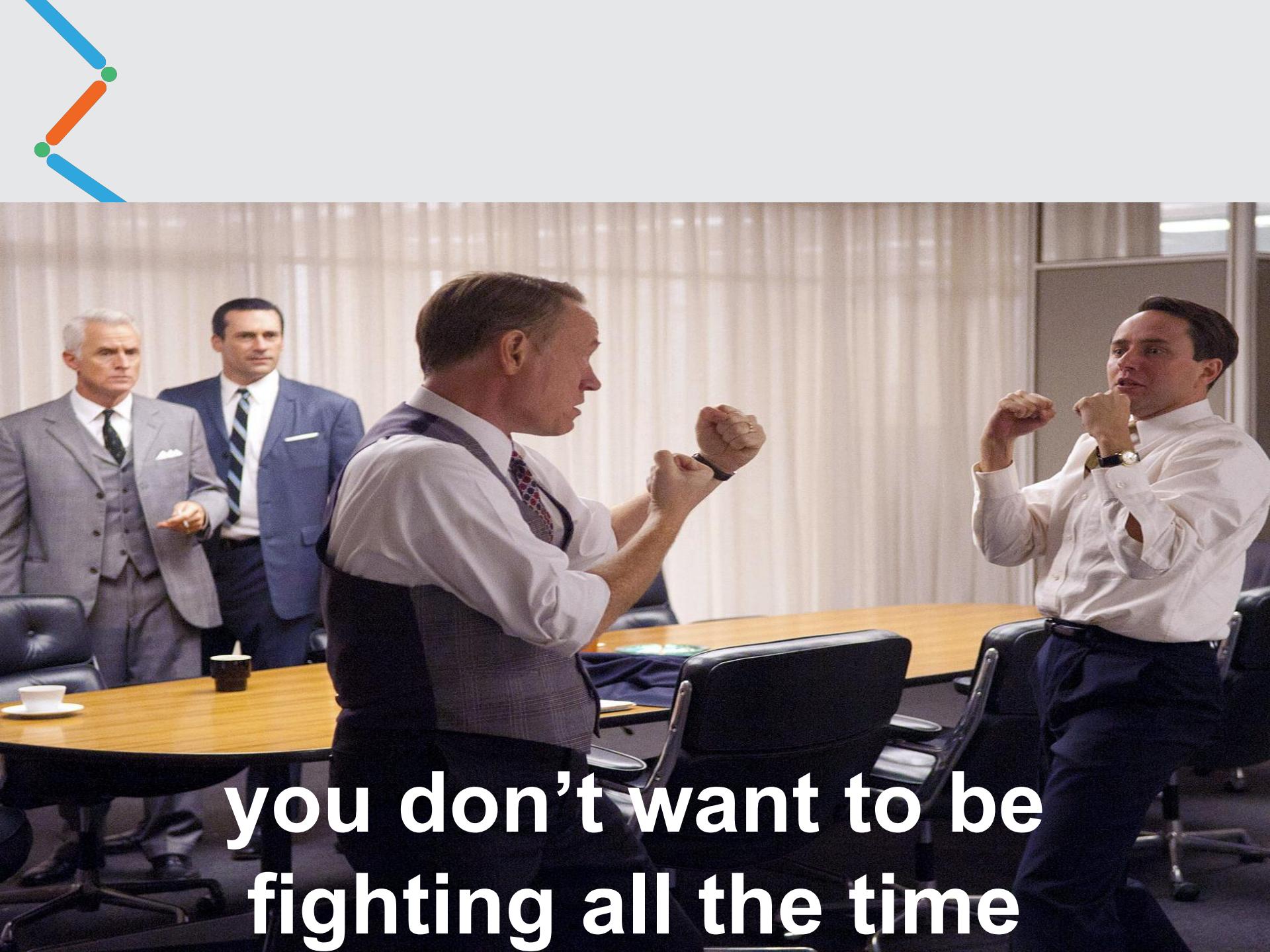
Our Experience



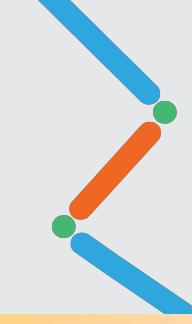
**Ruby is all about making programmer
HAPPY**



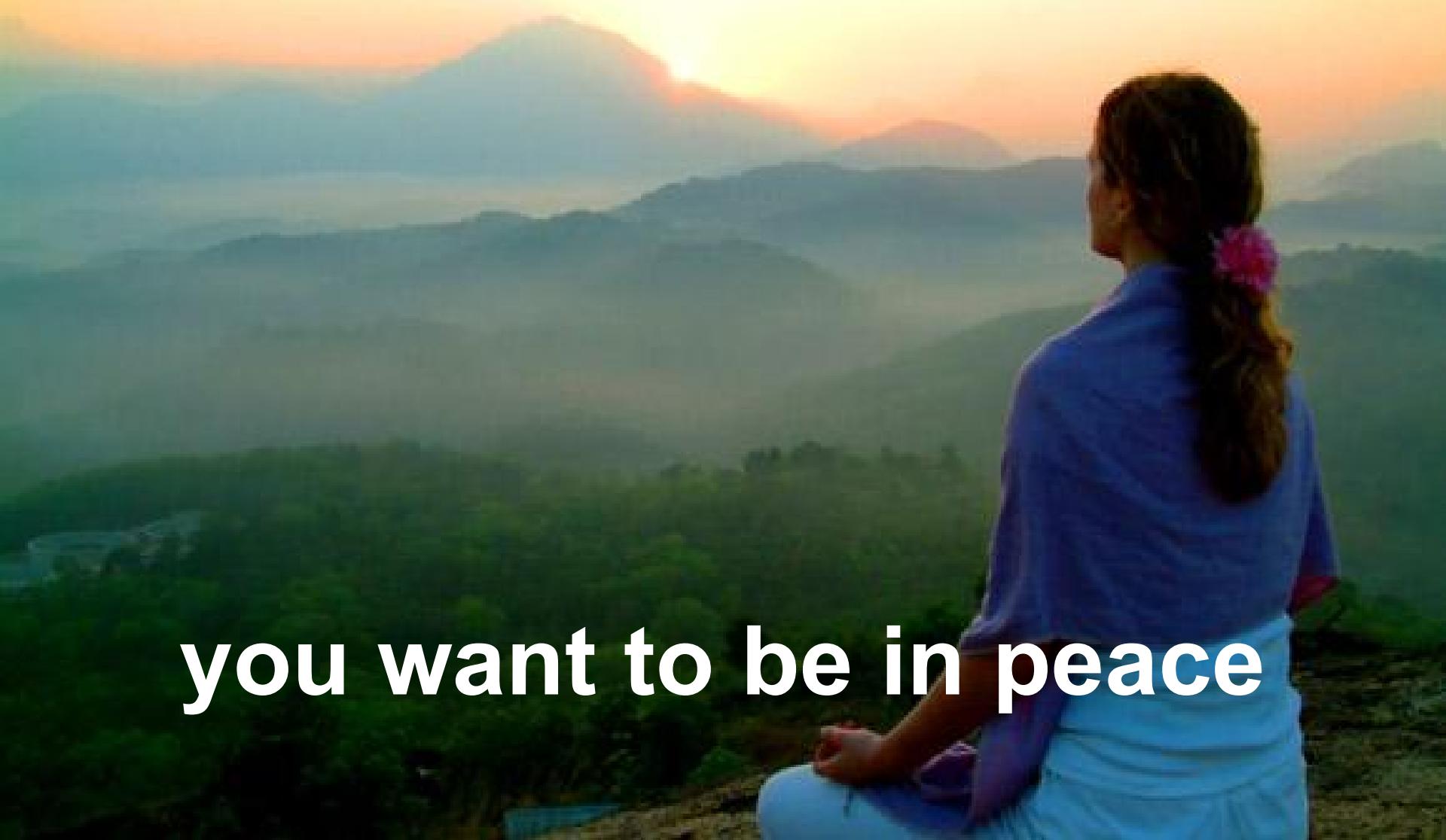
It is easy to learn



you don't want to be
fighting all the time

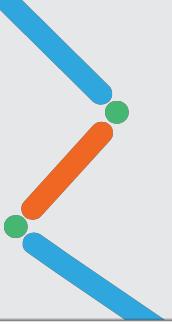


you want to be in peace

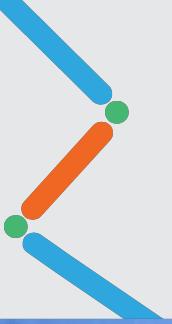




It is fun

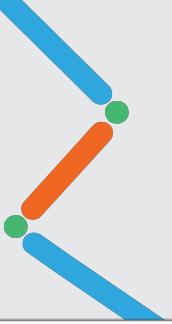


Session 3



Let's
Dive
into
Rails



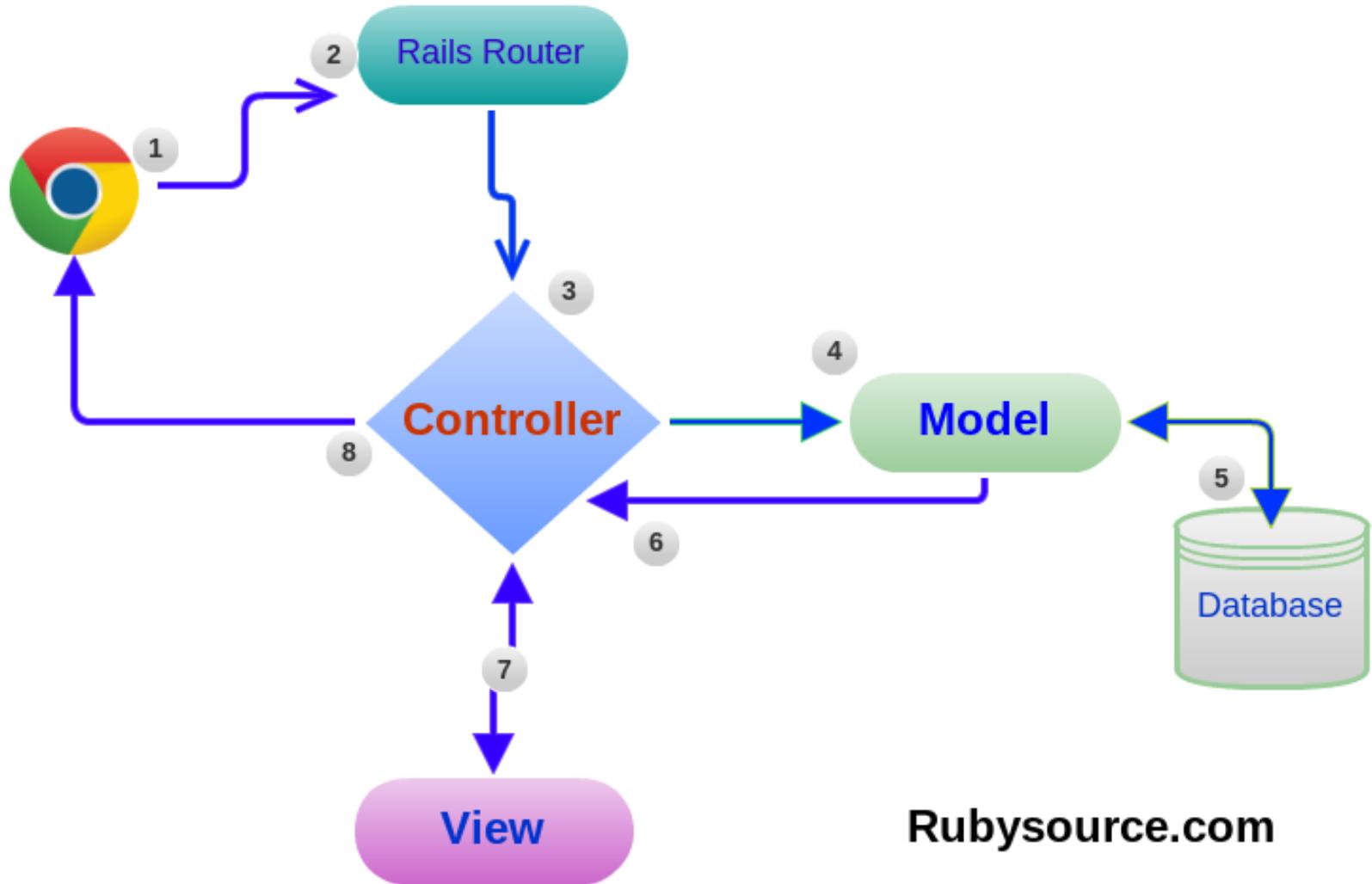


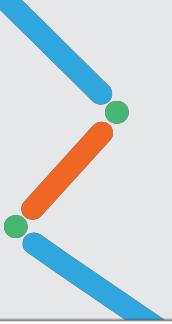
David Heinemeier Hansson



Creator of Ruby on Rails- "DHH"

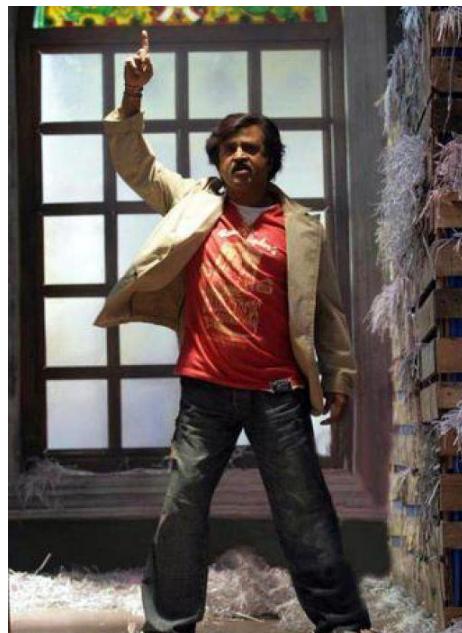
MVC Architecture

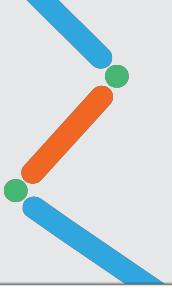




Arrays

Now lets do all these in
one command -> scaffold





Don't Think, Try Ruby :)

Ruby

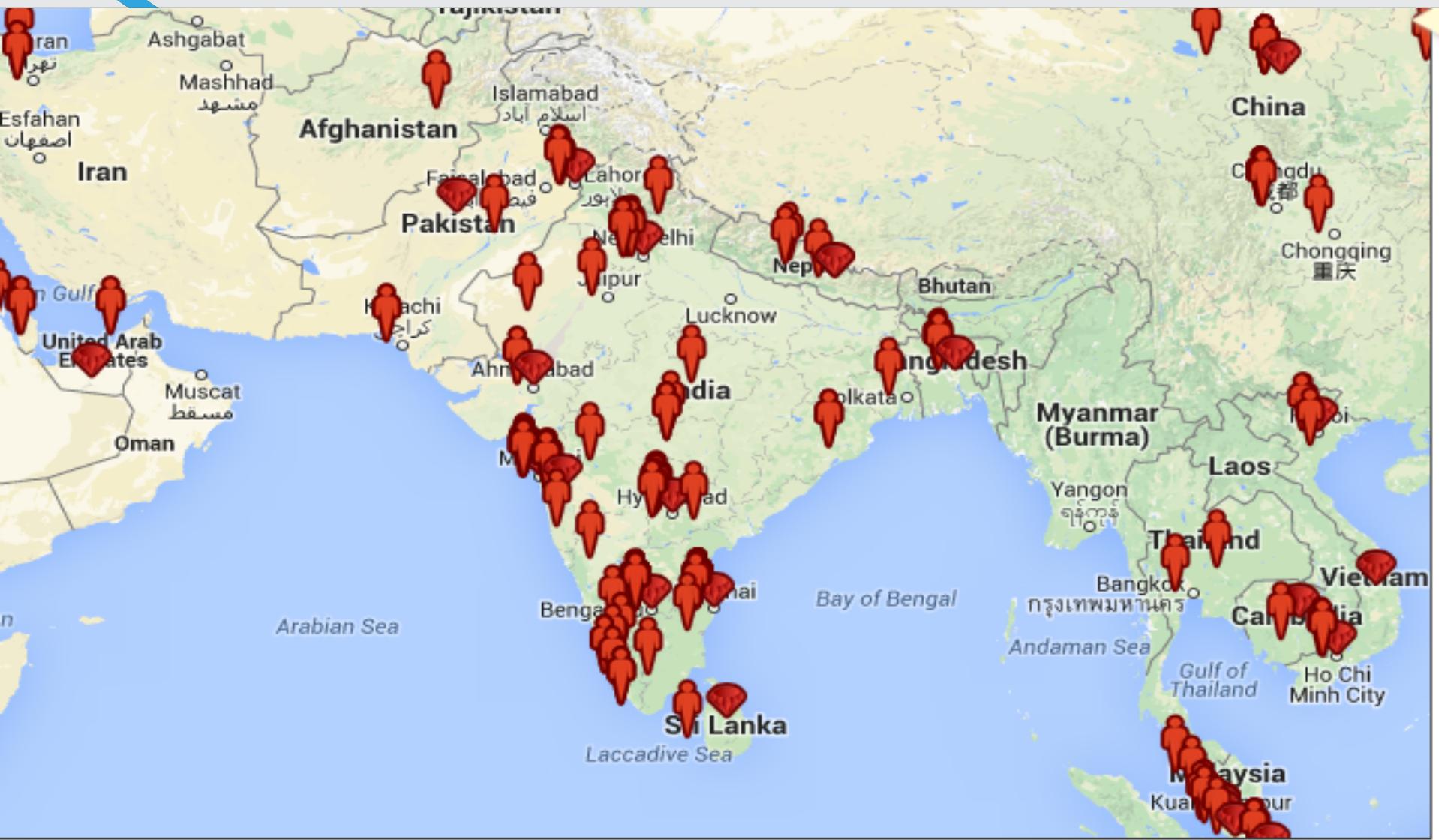
<http://tryruby.org/>

Ruby on Rails

<https://www.railstutorial.org/book>

<http://guides.rubyonrails.org/>

Large community to support you



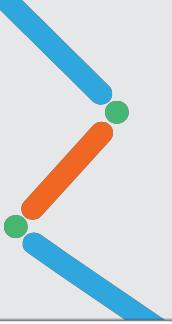


Join us, “Ruby is Future”

Local Ruby Community in Mysore

<http://www.meetup.com/mysore-ruby-meetup/>





Attend a Tech Conference



Garden City Ruby Conference

Bangalore's own Ruby Conference

Saturday, January 10th, 2015

Follow [@GardenCityRb](#) on Twitter for further updates





Thank You

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