

# RUby Beginner

A Programmer's Best Friend

Speaker: RIZQI NUR ASSYAUFI





#### RIZQI NUR ASSYAUFI

bandithijo.github.io

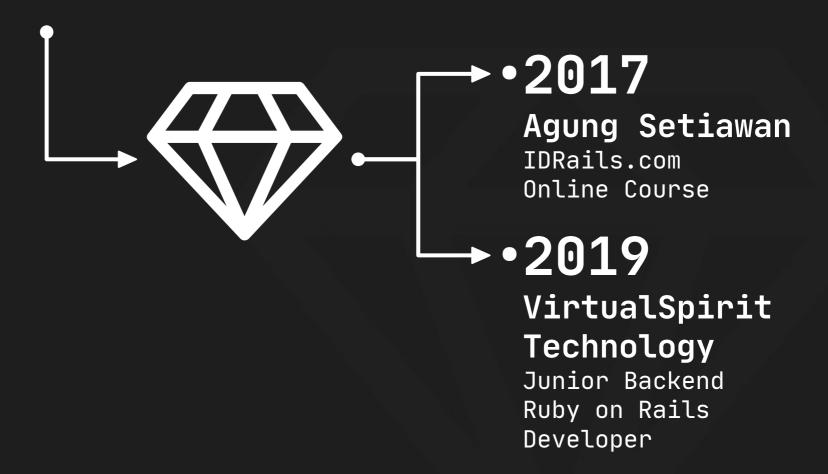
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/dotfiles\_id /ruby\_id



#### bandithijo





# .Introduction to Ruby

### > Sedikit tentang Ruby

```
:creator ⇒ Yukihiro "Matz" Matsumoto
:inspired ⇒ [ Perl, Smalltalk, Eiffel, Ada, Lisp ]
:public_release ⇒ 1995
:mass_acceptance \Rightarrow 2006 < DHH.create(Ruby on Rails,
                                        Basecamp,
                                        2003)
```

```
Matz.said("trying to make Ruby natural, not simple")
```

```
_.append("Ruby is simple in appearance,
          but is <u>very complex inside</u>,
          just like our human body.")
```

Source: About Ruby - http://www.ruby-lang.org/en/about/

- :dev\_a ⇒ "We moved away from Ruby.
   It's a dying language...
   and it has scalability problem"

Source: Nate Hopkins @hopsoft - https://twitter.com/hopsoft/status/1169706322851328000

```
success_stories("Ruby")

⇒ {
Simulations: [Nasa, Motorola, etc.]

3D_Modeling: [Google Scketchup, etc.]

Robotics : [Morpha Project (Siemens), etc.]

Security : [Metasploit Framework, etc.]

Web Apps : [Basecamp, etc.]
etc. : [...] }
```

Source: Ruby Lang Success Stories - http://www.ruby-lang.org/en/documentation/success-stories/

Ruby.who("INDONESIA").value

→ [ Bukalapak, Cookpad Indonesia, Midtrans, Quipper, Vidio, HIJUP, Alodokter, Apisentris, BBM, BelanjaQu, Binary Academy, Dropsuite, Forstok, GO-JEK, Jualo, Jurnal, Karir.com, KlikDokter, KMK Online, Mekari, Mitrais, Peentar, Qontak, Sejasa.com, Sleekr, Sribulancer, Stargle, Virkea, Wego, WGS

Source: :id\_ruby - Komunitas Ruby Indonesia - https://ruby.id

```
Language::Ruby.is_dead?(

"Ruby is alive and thinking about next 25 years"

"dev.to/teaglebuilt/is-ruby-dead-17em"

"hackernoon.com/the-state-of-ruby-2019-is-it-dying"

"GitHub Blog - Upgrading GitHub to Ruby 2.7"

"..."

> false
```

```
Language::Ruby.is_dead?(
    "Ruby is dead. (rubyisdead.science)"
)
    ⇒ false!
@jmcharnes.said("isrubydead.com")
    ⇒ NO
```

Just because Ruby is not popular anymore, it doesn't mean Ruby is dead, right?

### > Kenapa Memilih Ruby?

```
Learning::Ruby.is_worth?(:me).value
a: "Membantu menterjemahkan ide/solusi, menjadi sebuah
    script atau program."
  "Membantu menyederhanakan kerumitan."
c: "Membantu menjembatani interaksi user dengan sistem
    Operasi."
} ⇒ Handy & Practical
```

### > Kenapa Memilih Ruby?

```
PracticalThing::Ruby.can_do(:you)
a: "Full-stack web development"
b: "Web scraping & crawling"
c: "Static website generators"
d: "Automation, Backup, & DevOps tools"
e: "Build your own servers"
f: "Parsing data, cleaning & filtering"
  "API clients (like Twitter's or GitHub's)"
h: "Report generators (PDF, HTML, CSV, SpreadSheet)"
i: "Command-line tools"
j: "Games (gosu, Ruby2D, etc.)"
h: "Data Science"
1: "Machine Learning & AI" }
```

Source: RubyGuide - Jesus Castello - https://www.rubyquides.com/2019/11/what-can-you-do-with-ruby/

### > What's new on Ruby 2.7?

```
Ruby.whats_new?(2.7)

⇒ {
a: "Enumerable#tally"
b: "Numbered params for Blocks [Experimental]"
c: "Array#intersection"
d: "Enumerable#filter_map"
e: "Enumerator#produce"
f: "IRB gets a face lift"
g: "Ruby patern matching [Experimental]"
h: "10x performance ↑ for fiber & thread creattoin"
i: "Others changes, *go to source" }
```

Source: RubyGuide - Jesus Castello - https://www.rubyguides.com/2019/12/ruby-2-7-new-features/

### > What's new on Ruby 2.7?

 $\Leftrightarrow$ 

Ruby NEVER STOPS Improving!

Now, according to Matz...

This is the last 2.x version release. Because next year, we're getting <u>Ruby 3.0</u>!

Source: RubyGuide - Jesus Castello - https://www.rubyguides.com/2019/12/ruby-2-7-new-features/

### > Tips Memasang Ruby for Dev

#### Groom your app's Ruby env. with Rbenv

#### Basic GitHub Checkout way:

```
$ cd
$ git clone https://github.com/rbenv/rbenv.git ~/.rbenv
$ echo 'export PATH="$HOME/.rbenv/bin:$PATH"' >> ~/.bashrc # ~/.zshrc
$ echo 'eval "$(rbenv init -)"' >> ~/.bashrc # ~/.zshrc
$ exec $SHELL
$ git clone https://github.com/rbenv/ruby-build.git ~/.rbenv/plugins/ruby-build
$ echo 'export PATH="$HOME/.rbenv/plugins/ruby-build/bin:$PATH"' >> ~/.bashrc
# ~/.zshrc
$ exec $SHELL
$ rbenv install 2.7.1
```

```
/home/bandithijo
project_a ← ruby 2.7.1
project_b ← ruby 2.6.3
project_c ← ruby 2.5.3
project_d ← ruby 2.4.2
```

Source: Rbenv (GitHub) - https://github.com/rbenv/rbenv/blob/master/README.md Source: GoRails.com - https://gorails.com/setup/ubuntu/20.04#ruby-rbenv

rbenv global 2.7.1

ruby -v



## .Variabel

### > Apa itu Variabel?

Digunakan untuk memberikan nama & menyimpan nilai (value)

In Ruby, Variable is just a label.

...a name for something that you can use to reference this value in your Ruby programs.

Just like the name we give to real-world things.

When I say "apple" you know what I'm talking about. I don't have to describe it to you.

That's what variables do!

```
nama_lengkap = "Yukihiro Matsumoto"
tahun_lahir = 1995
```

Source: RubyGuides - https://www.rubyguides.com/ruby-tutorial/variables/

### > Scope/jangkauan Variabel?

```
Local variable
team_name = "Elite Lokal"
Global variable (prefix: $)
$team_name = "Elite Global"
Instance variable (prefix: @)
@fav_food = "Indomie Instance"
Class variable (prefix: @@)
@@fav_drama = "Itaewon Class"
Constant variable (Huruf Besar)
```

Source: RubyGuides - https://www.rubyguides.com/ruby-tutorial/variables/

PHI = 3.14

### > Scope/jangkauan Variabel?

The difference between them? It's on their "scope".

A variable scope answers this question:

"From where can I access this variable?"

This is only going to matter when you start learning about Object-Oriented Programming.

Source: RubyGuides - https://www.rubyguides.com/ruby-tutorial/variables/



# .Working with String (a)



# .Working with String (b)



## .Working with Number



# .Comparison Operators



## 



## .Collection



## .Looping



### . Method



## EXTENDED



## .File IO



## .Error Handling



# .Object Oriented Programming



## .Module

### > Tips mencari dengan Google

Gunakan prefix "ruby" sebagai awalan kata kunci untu mencari di Google.

Q ruby

Kemudian, diikuti dengan keyword apa yang mau dicari. Misal, tentang perulangan dengan method "each".

Q ruby each loop

Dengan cara ini, kita dapat membuat hasil pencarian yang lebih spesifik untuk bahasa pemrograman Ruby.

### > Referensi Belajar Ruby

#### ▶ YouTube:

- GoRails
- Jesus Castello
- Drifting Ruby
- Nate Berkopec
- TechmakerTV
- Decypher Media
- zayne
- Code School
- FreeCodeCamp.org
- Sekolah Koding
- Agung Setiawan

#### 

- Ruby in 20 minutes
- RubyGuides.com

#### **≈**Online Course:

• IDRails.com

- > Referensi <u>Group</u> Telegram **A**untuk Bertanya seputar Ruby
  - Ruby Indonesia
  - Rails Indonesia

- > Referensi <u>Channel</u> Telegram **1**untuk Berita tentang Ruby
  - Ruby/Rails Inside



## :Terima\_Kasih

> Made with ♥by Rizqi Nur Assyaufi @BanditHijo ## 2020/09