

hello>  
<dev

#ONLINEMEETING  
2020-09-11 20.00 WITA

# Ruby for Beginner



A Programmer's Best Friend

Speaker:  
RIZQI NUR ASSYAUFY



## RIZQI NUR ASSYAUFY

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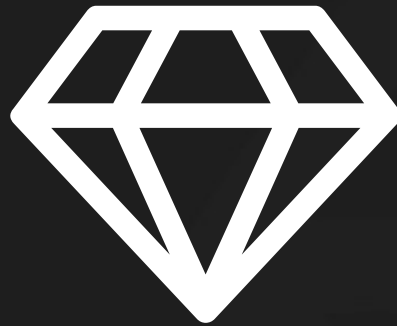
t.me



/GNUlinuxIndonesia /VimID  
/JekyllID /ArchLinuxID  
/dotfiles\_id /ruby\_id



**bandithijo**



• **2017**

**Agung Setiawan**

IDRails.com

Online Course

• **2019**

**VirtualSpirit**

**Technology**

Junior Backend

Ruby on Rails

Developer

# .Introduction to Ruby

# > Sedikit tentang Ruby

```
:creator    ⇒ Yukihiro "Matz" Matsumoto
:inspired   ⇒ [ Perl, Smalltalk, Eiffel, Ada, Lisp ]
:public_release ⇒ 1995
:mass_acceptance ⇒ 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 very complex inside,
         just like our human body.")
```

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

# > Is Ruby Dead Programming Language?

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

:dev\_b ⇒ "Let's host our projects on  
GitHub & GitLab, use Stripe as  
our payment processor, crowdfund  
with KickStarter, and  
livestream on Twitch. Also,  
write about our industry and  
programming on dev.to"

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

# > Is Ruby Dead Programming Language?

```
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/>

# > Is Ruby Dead Programming Language?

`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, Starqle, Virkea, Wego, WGS ]

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



# > Is Ruby Dead Programming Language?

```
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
```

# > Is Ruby Dead Programming Language?

```
Framework::Rails.is_dead(  
  "similartech.com/technologies/ruby-on-rails"  
  "similartech.com/categories/framework"  
  "hackernoon.com/is-ruby-on-rails-dead-in-2019"  
  "dockyard.com/blog/ruby-on-rails-in-2020"  
  "Is Ruby on Rails dying: Myth or Reality?"  
  "..."  
)  
⇒ false
```

# > Is Ruby Dead Programming Language?

```
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."

b: "Membantu menyederhanakan kerumitan."

c: "Membantu menjembatani interaksi user dengan sistem Operasi."

d: "..."

} ⇒ 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"
```

```
g: "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"
```

```
l: "Machine Learning & AI" }
```

Source: RubyGuide - Jesus Castello - <https://www.rubyguides.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 pattern matching [Experimental]"

h: "10x performance ↑ for fiber & thread creatoin"

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?



Ruby NEVER STOPS Improving!

Now, according to Matz...

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

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
$ rbenv global 2.7.1
$ ruby -v
```

```
🏠 /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>



# .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)

```
PHI = 3.14
```

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

# > 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



# . Branching / Condition



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# .Collection

**Ruby for Beginner**  
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# . Looping

# .Method



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A large, faint, light-red watermark of the Ruby logo is centered in the background. It is a stylized, faceted gem shape.

**EXTENDED**

**Ruby for Beginner**  
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# .File IO

# .Error Handling

# .Object Oriented Programming



# .Module

# > Tips mencari dengan Google

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

 **ruby**

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

 **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

## ▶ WebPage:

- Ruby in 20 minutes
- RubyGuides.com

## ▶ Online Course:

- IDRails.com

## > Referensi Group Telegram untuk Bertanya seputar Ruby

- Ruby Indonesia
- Rails Indonesia

## > Referensi Channel Telegram untuk Berita tentang Ruby

- Ruby/Rails Inside

# : Terima\_Kasih

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