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#ONLINEMEETING
2020-09-11 20.00 WITA

Ruby for Beginner

A Programmer's Best Friend

Speaker:
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Ruby for Beginner

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bandithijo

- 2017
  Agung Setiawan
  IDRails.com
  Online Course
- 2019
  VirtualSpirit Technology
  Junior Backend Ruby on Rails Developer

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.Introduction to Ruby

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> 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 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?

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

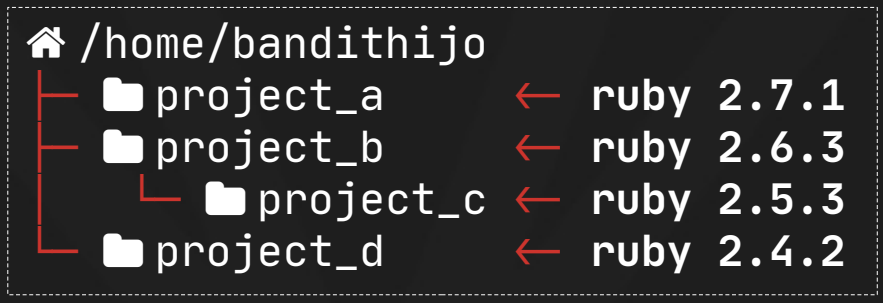
Groom your app's Ruby env. with Rbenv

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
```



Source: Rbenv (GitHub) - https://github.com/rbenv/rbenv/blob/master/README.md

Source: GoRails.com - https://gorails.com/setup/ubuntu/20.04#ruby-rbenv

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.Variabel

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> 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/

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.Working with String (a)

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.Working with String (b)

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.Working with Number

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.Comparison Operators

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.Branching /Condition

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.Collection

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.Looping

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.Method

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EXTENDED

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.File IO

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.Error Handling

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.Object Oriented Programming

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.Module

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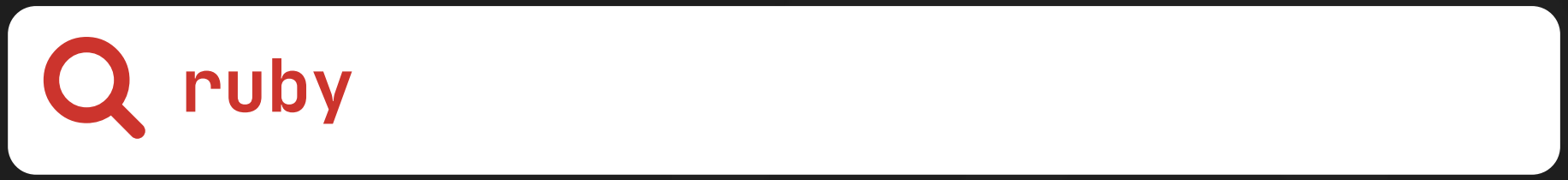
> Tips mencari dengan Google

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



Kemudian, diikuti dengan keyword apa yang mau dicari.
Misal, **tentang perulangan dengan method “each”.**

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

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:Terima_Kasih

> Made with ♥ by Rizqi Nur Assyaufi
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