

RUby Beginner

A Programmer's Best Friend

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Ruby for Beginner
A Programmer's Best Friend



bandithijo





Introduction to Ruby

Ruby for Beginner
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> Sedikit tentang Ruby

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





We moved away
from Ruby.
It's dying language...
and it has scalability
problem.

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

```
success_stories("Ruby")
\Rightarrow \{
Simulations: [Nasa, Motorola, etc.]
3D_Modeling: [Google Scketchup, etc.]
Robotics : [Morpha Project (Siemens), etc.]
Security : [Metasploit Framework, etc.]
Web Apps : [Basecamp, GitHub, GitLab, 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, etc...

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
\Rightarrow \{
a: "Membantu menyederhanakan kerumitan"
b: "Membantu menerjemahkan ide/solusi, menjadi sebuah
    script atau program"
c: "Sintaks yang mudah dipahami"
  "Ketersediaan library (gem) yang lengkap"
  "Ketersediaan dokumentasi API yang lengkap"
f: "Dukungan komunitas yang solid"
  "Open source"
h: "Digunakan oleh Organisasi/Company Besar"
```

> Kenapa Memilih Ruby?

```
PracticalThing::Ruby.can_do(:you)
a: "Full-stack web development"
  "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 (Ruby2D, etc.)"
k: "Data Science"
1: "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"
  "Numbered params for Blocks [Experimental]"
  "Array#intersection"
  "Enumerable#filter_map"
  "Enumerator#produce"
  "IRB gets a face lift"
  "Ruby patern matching [Experimental]"
  "10x performance ↑ for fiber & thread creation"
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!

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.rubyquides.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:

```
/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#rubv-rbenv



ruby -v

rbenv global 2.7.1

> Tips Memasang Ruby for Dev

Groom your app's Ruby env. with Rbenv

Verify that rbenv is properly set up:

```
$ curl -fsSL \
https://github.com/rbenv/rbenv-installer/raw/master/bin/rbenv-doctor | bash
```

```
https://github.com/rbenv/rbenv-installer/raw/master/bin/rbenv-doctor | bash Checking for `rbenv' in PATH: /home/bandithijo/.rbenv/bin/rbenv Checking for rbenv shims in PATH: OK Checking `rbenv install' support: /home/bandithijo/.rbenv/plugins/ruby-build/bin/rbenv-install (ruby-build 20200520-10-g157c719)
Counting installed Puby yensions: 2 yensions
```

Counting installed Ruby versions: 8 versions

Checking RubyGems settings: OK Auditing installed plugins: OK

```
/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





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Adalah panduan menulis kode Ruby dengan "best practice" sehingga sesama programmer Ruby dapat menulis kode yang dapat dipelihara satu sama lain.

Indentation

Gunakan 2 spasi per level indentasi.

```
# bad - four spaces
def some_method
    do_something
end

# good
def some_method
    do_something
end
```

Should I Terminate Expression with ; ?

Don't use ; to terminate statements and expressions.

```
# bad
puts 'foobar'; # superfluous semicolon

# good
puts 'foobar'
```

One Expression Per Line

```
# bad
puts 'foo'; puts 'bar' # two expressions on the same line
# good
puts 'foo'
puts 'bar'

puts 'foo', 'bar' # this applies to puts in particular
```

Spaces & Operators

Use spaces around operators, after commas, colons and semicolons

```
# bad
sum=1+2
a,b=1,2
class FooError<StandardError;end

# good
sum = 1 + 2
a, b = 1, 2
class FooError < StandardError; end</pre>
```



Spaces & Operators (Exceptions)

Exponent operator



Slash in rational literals

```
# bad
o_scale = 1 / 48r

# good
o_scale = 1/48r
```

Safe navigation operator

```
# bad
foo &. bar
foo &.bar
foo &. bar

# good
foo &.bar
```

Spaces & Braces

```
No! spaces after (, [ or before ], )
Use spaces around { and before }
```

```
# bad
some( arg ).other
[ 1, 2, 3 ].each{|e| puts e}

# good
some(arg).other
[1, 2, 3].each { |e| puts e }
```

Spaces & Braces (Exceptions)

Hash literals

```
# good - space after { and before }
{ one: 1, two: 2 }

# good - no space after { and before }
{one: 1, two: 2}
```

String interpolation expressions

```
# bad
"From: #{ user.first_name }, #{ user.last_name }"

# good
"From: #{user.first_name}, #{user.last_name}"
```

CamelCase for Classes

Use CamelCase for classes and modules. (Keep acronyms like HTTP, RFC, XML uppercase).

bad class Someclass # some code end class Some_Class # some code end class XmlSomething # some code end



Snake Case for Symbols, Methods, & Variables

Use snake_case for symbols, methods and variables.





Lebih lengkapnya silahkan kunjungi,

The Ruby Style Guide

https://rubystyle.guide





(Interactive Ruby Shell)

> Apa itu IRB?

IRB adalah kependekan dari Interactive Ruby.

Sebuah shell yang dapat kita gunakan untuk bermain-main dan bereksplorasi dengan Ruby dan langsung melihat hasilnya. Definisi ini diistilahkan dengan REPL (Read-Eval-Print-Loop).

Untuk menjalankan IRB, cukup tulis di terminal dengan perintah:

```
$ irb
irb(main):001:0> _
```

Ayo kita coba jalanakan operasi matematika!

```
irb(main):001:0> 1 + 2 * (3**4) / 5 - 6 \Rightarrow 27
```

Source: RubyGuides - https://www.rubyguides.com/2018/12/what-is-a-repl-in-ruby/

> Customisasi IRB

Secara default, bentuk dari "prompt" IRB akan seperti ini

```
$ irb
irb(main):001:0> _
```

Secara pribadi, saya kurang suka melihat prompt yang terlalu panjang.

Kita bisa menyederhanakan dengan memanggil dengan cara berbeda.

```
$ irb --prompt simple
>> _
```

Untuk membuat prompt "simple" menjadi default yang digunakan, cukup tambahkan pada file ~/.irbc (buka dengan text editor).

```
IRB.conf[:PROMPT_MODE] = :SIMPLE
```

Nah, sekarang apabila teman-teman memanggil irb, maka otomatis akan menggunakan "simple" prompt.

Source: Rake Routes - https://www.rakeroutes.com/customize-your-irb/





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> .rb

Ruby memiliki file ekstensi .rb

Tujuannya agar Ruby interpreter dapat mengenali kalau file yang kita jalankan adalah file Ruby.

nama_file.rb

```
puts 'Helo, rubyist!'
puts 'Selamat belajar bahasa pemrograman Ruby.'
```

Untuk menjalankan file .rb

```
$ ruby nama_file.rb
```

Helo, rubyist! Selamat belajar bahasa pemrograman Ruby.



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!

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

> Mengecek Class dari Variabel

Darimana kita tahu variable tertentu termasuk dalam Class apa?

Menggunakan method class()

```
>> nama = 'Yukihiro Matsumoto'
>> nama.class
⇒ String

>> umur = 55
>> umur.class
⇒ Integer

>> tim_dev = ['Rizal', 'Reza', 'Rizqi']
>> tim_dev.class
⇒ Array
```

inF0!

Cara memanggil sebuah method dengan menggunakan tanda . (dot)

> 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/ Source: RubyGuides - https://www.rubyguides.com/2019/03/ruby-scope-binding/





Puts, Print, P Console

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> Puts, Print, P

puts

Menampilkan isi dari object & menambahkan newline "\n" di akhir.

```
>> nama_lengkap = 'Yukihiro Matsumoto'
>> puts nama_lengkap
Yukihiro Matsumoto

⇒ nil
```

print

Menampilkan isi dari object **tanpa** newline "\n" di akhir.

```
>> print nama_lengkap
Yukihiro Matsumoto⇒ nil
```

p

Menampilkan isi dari object & mengembalikan nilai dari object tsb.

```
>> p nama_lengkap
"Yukihiro Matsumoto"

⇒ "Yukihiro Matsumoto"
```

Source: RubyGuides - https://www.rubyguides.com/2018/10/puts-vs-print/



Working with String (a)

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.Working with String (a)

- > String Concatenation
- > String Interpolation
- > Mengecek Method pada Class
- > String Method yang Biasa Digunakan
- > Escaping Character

Combining multiple string

a. Menggunakan operator +

```
>> nama_depan = 'Yukihiro'
>> nama_belakang = 'Matsumoto'
>> nama_lengkap = nama_depan + nama_belakang

>> nama_lengkap
"YukihiroMatsumoto"

>> puts nama_depan + ' ' + nama_belakang
"Yukihiro Matsumoto"

>> puts 'Yukihiro' + ' ' + 'Matsumoto'
"Yukihiro Matsumoto"
```

Combining multiple string

b. Menggunakan operator +=

```
>> nama = ''
>> nama += 'Yukihiro'
>> nama += ' '
>> nama += ' Matsumoto'

>> puts nama
"Yukihiro Matsumoto"
```

Combining multiple string

c. Menggunakan concat() method

```
>> nama = ''
>> nama.concat('Yukihiro')
>> nama.concat(' ')
>> nama.concat('Matsumoto')
>> puts nama
"Yukihiro Matsumoto"
```

Combining multiple string

d. Menggunakan operator << (alias dari concat() method)</pre>

```
>> nama = ''
>> nama << 'Yukihiro'
>> nama << ' '
>> nama << 'Matsumoto'

>> puts nama
"Yukihiro Matsumoto"

>> puts nama << 'Yukihiro' << ' ' << 'Matsumoto'
"Yukihiro Matsumoto"</pre>
```

```
>> 'berat badan = ' << 70
# TypeError: no implicit conversion of Fixnum into String</pre>
```

Combining multiple string

d. Menggunakan operator << (alias dari concat() method)</pre>

Problem:

```
>> 'berat badan = ' << 70

⇒ "berat badan = F"
```

Solusi:

```
>> 'tinggi badan = ' << 70.to_s

⇒ "tinggi badan = 70"
```

Menggunakan to_s method untuk mengkonversi Integer ke String.

```
Source: RubyGuides - https://www.rubyguides.com/2019/07/ruby-string-concatenation/Source: RubyGuides - https://www.rubyguides.com/2018/09/ruby-conversion-methods/
```

Combining multiple string

e. Menggunakan prepend() method (kebalikan dari concat)

```
>> nama = ''
>> nama.prepend('Yukihiro')
>> nama.prepend(' ')
>> nama.prepend('Matsumoto')
>> puts nama
"Matsumoto Yukihiro"
```

If you're thinking there is an append method, well there isn't for String. append method only for arrays.

> String Interpolation

Interpolation or merging of variables into strings is a powerful technique. It allows you to "templatize" a string.

a. Menggunakan "#{}"

```
>> nama_depan = 'Yukihiro'
>> nama_belakang = 'Matsumoto'
>> umur_sekarang = 55

>> puts "Nama: #{nama_depan} #{nama_belakang}. Umur: #{umur}"
"Nama: Yukihiro Matsumoto. Umur: 55"
```

■ Syarat: String harus menggunakan tanda petik ganda ("...")

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

> Mengecek Method pada Class

Darimana kita tahu method apa yang tersedia dari sebuah Class?

Menggunakan methods() method

```
>> nama = 'Yukihiro Matsumoto'
>> nama.class
⇒ String

>> nama.methods
⇒[:unicode_normalize, :unicode_normalize!, :ascii_only?, :unpack, :unpack1, :to_r, :shellsplit, :encode, :encode!, :shellescape, :%, :include?, :*, :+, :pretty_print, ..., ...]
```

Berapa banyak jumlah method yang tersedia? (misal: String)

```
>> nama.class
⇒ String
>> nama.methods.count
⇒ 192
```

> String Method yang Biasa Digunakan

.upcase()

- >> nama = 'Yukihiro Matsumoto'
- nama.upcase
- "YUKIHIRO MATSUMOTO"

.capitalize()

- >> nama = 'yukihiro matsumoto'
- >> nama.capitalize
- ⇒ "Yukihiro matsumoto"

.length()

- >> nama = 'Yukihiro Matsumoto'
- >> nama.length
- \Rightarrow 18

.downcase()

- >> nama = 'Yukihiro Matsumoto'
- >> nama.downcase
- ⇒ "yukihiro matsumoto"

.reverse()

- >> nama = 'yukihiro matsumoto'
- >> nama.reverse
- ⇒ "otomustam orihikuy"

More: Ruby-Doc - https://ruby-doc.org/core-2.7.0/String.html

> String Method yang Biasa Digunakan

.sub()

```
>> nama = 'Yukihiro Matz'
>> nama.sub('Matz', 'Akita')

⇒ "Yukihiro Akita"
```

.strip()

```
>> nama = ' matsumoto '
>> nama.strip

⇒ "matsumoto"
```

dan masih banyak lagi...

.gsub()

```
>> nama = 'Budi Budi Bayu'
>> nama.gsub('Budi', 'Bayu')

"Bayu Bayu Bayu"
```

.split()

```
>> nama = 'Budi Budi Bayu'
>> nama.split(' ')

⇒ ["Budi", "Budi", "Bayu"]
```

More: Ruby-Doc - https://ruby-doc.org/core-2.7.0/String.html

> Escaping Character

backslashed notation

Bagaimana cara melakukan escaping character pada String?

```
>> 'malam jum'at'
SyntaxError: unexpected local variable or method...
>> 'malam jum\'at'
"malam jum'at"
```

Alternatif gunakan double quote untuk escaping single quote:

```
>> "malam jum'at"
"malam jum'at"
```

Contoh-contoh escaping character

```
\' : single quote
                                     \t : tab
  : double quote
                                     \b : backspace
 : backslash
                                     \f : form feed
\n : new line
                                     \v : vertical tab
\r : carriage return
                                     est.
```

More: AppSignal - https://blog.appsignal.com/2016/12/21/ruby-magic-escaping-in-ruby.html



Working with String (b)

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.Working with String (b)

> Get Input from User (Console)

> Get Input from User (Console)

Ruby use gets() method to get the user input (as a string).

.gets

```
>> print 'Nama kamu siapa? '; nama = gets
Yukihiro←
>> nama
⇒ "Yukihiro\n"
```

"\n" didapatkan saat kita menekan tombol enter.

Bagaimana cara menghilangkannya?

Gunakan **String#chomp** method.

.gets.chomp

```
>> puts "Nama kamu siapa? "; nama = gets.chomp
Yukihiro←
>> nama
⇒ "Yukihiro"
```

Source: Ruby-Doc - https://ruby-doc.org/core-2.7.1/IO.html



Working with Number

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.Working with Number

- > Arithmetic Operation
- > Order Arithmetic Operation
- > Loop with Times
- > Upto & Downto

> Arithmetic Operation

Nothing new here...

```
>> 5 + 5
\Rightarrow 10
>> 10 * 2
\Rightarrow 20
>> 2**3
\Rightarrow 8
>> 10 % 2
\Rightarrow 0
>> 10.even?
\Rightarrow true
>> 4.odd?
\Rightarrow false
```

```
>> 10 / 2.0
\Rightarrow 5.0
>> 9.0 / 3
\Rightarrow 3.0
```

Source: Ruby-Doc - https://ruby-doc.org/core-2.7.1/IO.html

> Order Arithmetic Operation

Perhatikan urutan dari pengerjaan operator.

Gunakan jembatan "PEMDAS" untuk mengingatnya.

```
Parenthesis () 

Exponential ** 

Multiplication * >> 1 + 2 * 3**4 / (5 - 6) 

Division / \Rightarrow -161 

Addition +
```

Source: Ruby-Doc - https://ruby-doc.org/core-2.7.1/IO.html



Substraction

> Loop with times

Salah satu method yang mudah untuk melakukan looping / perulangan terhadap angka.

.times

```
?> 3.times do
?> puts 'DILo Balikpapan'
>> end

DILo Balikpapan
DILo Balikpapan
DILo Balikpapan
DILo Balikpapan
```

.times (one line)

```
>> 3.times { puts 'DILo Bppn' }
DILo Bppn
DILo Bppn
DILo Bppn
```

```
?> 2.times do |n|
?> puts "Dilo ke-#{n}"
>> end

DILo ke-0
DILo ke-1
```

```
>> 2.times { |n| puts n }

0
1
```

> Upto & Downto

Salah satu method yang mudah untuk melakukan looping / perulangan terhadap angka dengan rentang tertentu.

.upto().each

```
?> 1.upto(3).each do
?> puts 'DILo Bppn'
>> end
DILo Bppn
DILo Bppn
DILo Bppn
```

```
?> 1.upto(3) do |n|
```

?> puts n >> end

.downto().each

```
?> 3.downto(1).each do
?> puts 'DILo Bppn'
>> end
DILo Bppn
DILo Bppn
DILo Bppn
```

```
?> 3.downto(1).each do |n|
?> puts n
>> end
3
```



Comparison & Logical Operators

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.Comparison & Logical Operators

- > Comparison Operators
- > Logical Operators

> Comparison Operators

Membandingkan 2 (atau lebih) objek. Dan membuat keputusan berdasarkan hasil perbandingan.

0perator	Deskripsi		
<	Kurang dari		
<=	Kurang dari sama dengan		
>	Lebih dari		
>=	Lebih dari sama dengan		
==	Sama dengan		
!=	Tidak sama dengan		

All these operators are methods, and they return a boolean value.

Source: RubyGuides - https://www.rubyguides.com/2018/07/ruby-operators/

> Logical Operators

Membandingkan 2 (atau lebih) condition.
Dan membuat keputusan berdasarkan hasil perbandingan.

Α	В	A && B	A B
Т	T	/ T	T
Т	F	/ / F	T
F	Т	J	T
F	F	F	F

```
if (Condition A) && (Condition B)
  # statement
end

if (Condition A) || (Condition B)
  # statement
end
```

Source: RubyGuides - https://www.rubyguides.com/2018/07/ruby-operators/



Branching // Condition

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- > If
- > Unless
- > If/Unless for One Statement
- > If, Else
- > If, Elsif, Else
- > If with Multiple Condition
- > If Nested (bertingkat)
- > Case
- > Ternary Operator

> if Statements

```
if condition
  statement 1
  statement 2
end
```

- if condition then statement 1; statement 2 end
- if condition; statement 1; statement 2 end
- Ruby executes code if the condition is true.

 True is interpreted as anything that isn't false or nil.

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

> unless Statements

```
if !condition # ← negasi dari condition
   statement
end

Sama dengan,

unless condition
   statement
end

unless condition then statement end
```

unless condition; statement end

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



> if/unless (reversed form)

if Statement (reversed)

```
statement if condition
```

```
statement 1; statement 2; statement n; if condition
```

unless Statement (reversed)

```
statement unless condition
```

statement 1; statement 2; statement n; unless condition

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

> if else

```
if condition
   statement 1
   statement 2
else
   statement 3
end
```

if the condition isn't true, code specified in the else clause is executed.

> if elsif else

```
if condition A
   statement 1
   statement 2
elsif condition B
   statement 3
elsif condition C
   statement 4
elsif condition X
   statement n
else
   statement 5
end
```

> if with Multiple Condition

```
if condition A && condition B
   statement 1
   statement 2
else
   statement 3
end
```

```
if condition A && condition B
   statement 1
   statement 2
elsif condition C || condition D
   statement 3
elsif condition E && (condition F || condition G)
   statement 4
else
   statement 5
end
```

> if Nested (bertingkat)

```
if condition A
  if condition A.1
    statement 1
  end

statement 2
elsif condition B
  statement 3
else
  statement 4
end
```

> case

```
if variable = 'A'
  statement 1
elsif variable = 'B'
  statement 2
elsif variable = 'C'
  statement 3
else
  statement 4
end
```

```
if var = 'A' || var = 'a'
  statement 1
elsif var = 'B'
  statement 3
else
  statement 4
end
```

```
case variable
when 'A'
  statement 1
when 'B'
  statement 2
when 'C'
  statement 3
else
  statement 4
end
```

```
case var
when 'A', 'a'
  statement 2
when 'B'
  statement 3
else
  statement 4
end
```

Source: RubyGuides - https://www.rubyguides.com/2015/10/ruby-case/

> ternary Operator

```
if condition
  statement 1
else
  statement 2
end
condition ? statement 1 : statement 2
ternary operator general syntax:
condition ? true : false
example,
tinggi = 150
tinggi > 170 ? 'tinggi' : 'pendek'
⇒ 'pendek'
tinggi < 170 ? (tinggi + 20) : tinggi
\Rightarrow 180
```

Source: RubyGuides - https://www.rubyguides.com/2019/10/ruby-ternary-operator/



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 **1** untuk Bertanya seputar Ruby
 - Ruby Indonesia
 - Rails Indonesia

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



:Terima_Kasih

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