



ELEMENTOS BÁSICOS DO RUBY

Moyses Santos



MOYSES DOS SANTOS

FRONT-END



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RUBY

- **Interpretada**
- **Multi-plataforma**
- **Dinâmica**
- **Simples**





**Yukihiro
Matsumoto**

1995

INFLUENCIAS DE RUBY

- **Perl**
- **Lisp**
- **Python**
- **Smaltak**

GitHub



**The
New York
Times**



NASA



shopify

INSTALAÇÃO

Mac OS

```
curl -sSL https://get.rvm.io | bash -s stable --ruby
```

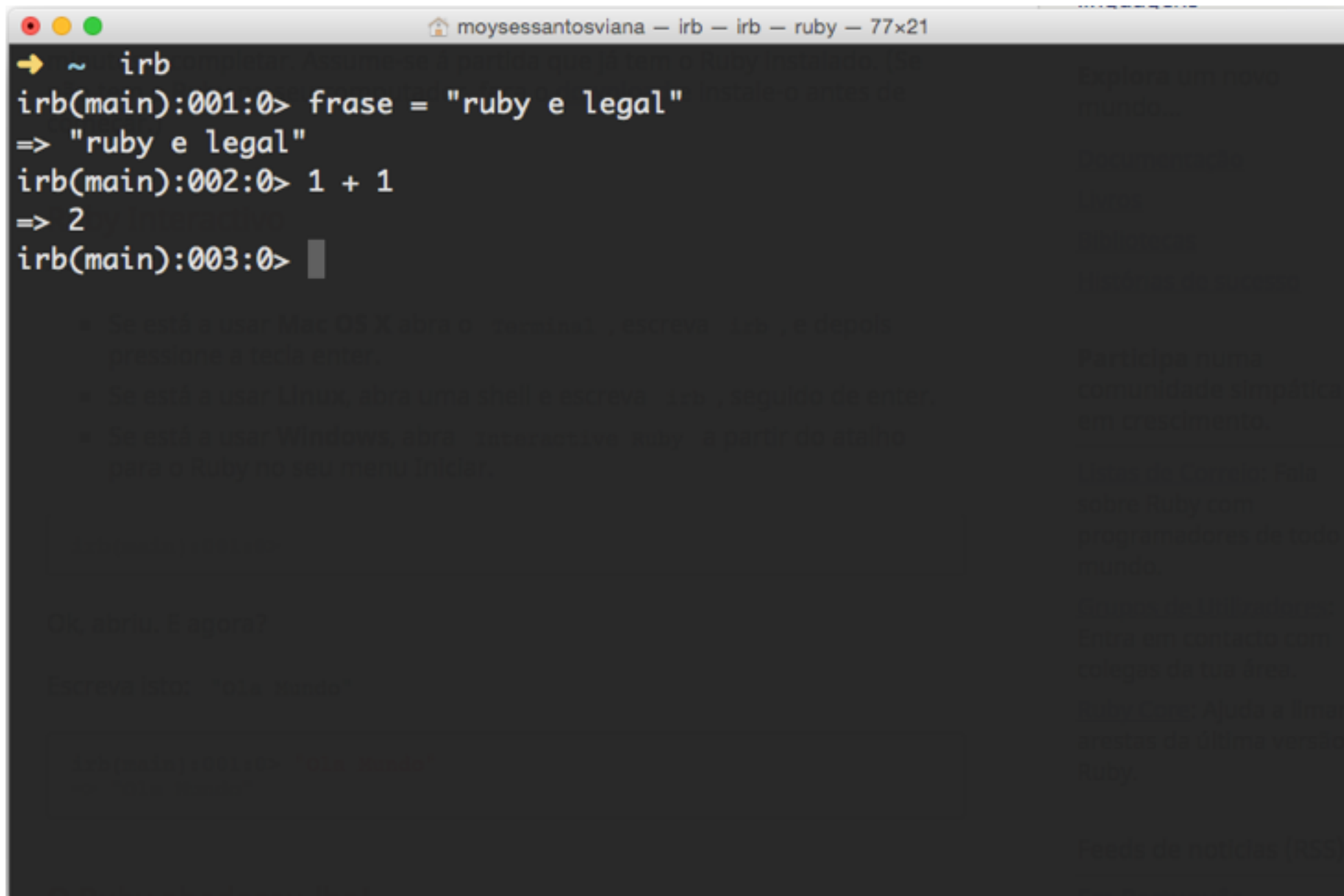
Linux

```
$ sudo apt-get update  
$ sudo apt-get install curl  
$ curl -ssl http://get.rvm.io | bash -s stable --ruby  
$ source ~/.rvm/scripts/rvm
```

Windows

<http://www.rubyinstaller.org>

RUBY INTERATIVO



```
moysessantosviana — irb — irb — ruby — 77x21
➔ ~ irb
irb(main):001:0> frase = "ruby e legal"
=> "ruby e legal"
irb(main):002:0> 1 + 1
=> 2
irb(main):003:0> 
```

The screenshot shows a terminal window titled "moysessantosviana — irb — irb — ruby — 77x21". The prompt is a yellow arrow pointing to a tilde (~) followed by "irb". The user enters "frase = \"ruby e legal\"", and the prompt changes to "irb(main):001:0>". The output is "=> \"ruby e legal\"". The user then enters "1 + 1", and the prompt changes to "irb(main):002:0>". The output is "=> 2". The prompt then changes to "irb(main):003:0>" with a cursor.

SIMPLES HELLO WORLD

```
puts "hello world"
```

```
p "hello world"
```

TIPAGEM DINÂMICA E FORTE

Duck typing: Se anda como um pato, fala como pato, então deve ser um pato.

```
hello = "Nome"  
hello.class  
#String
```

```
hello = 10  
hello.class  
#fixnum
```

TIPAGEM FORTE

Javascript

```
"hello" + 10
```

```
//hello42
```

```
10 + true
```

```
// 11
```

```
"10" + 2.5
```

```
// "102.5"
```

Ruby

```
"hello" + 10
```

```
# typeErro: no  
implicit conversou of  
Fixnum into String
```

```
10 + true
```

```
# typeErro: true  
can't be coerced into  
Fixnum
```

SINTAXE

O uso de “()” parênteses e “;” ponto e virgula são opcionais.

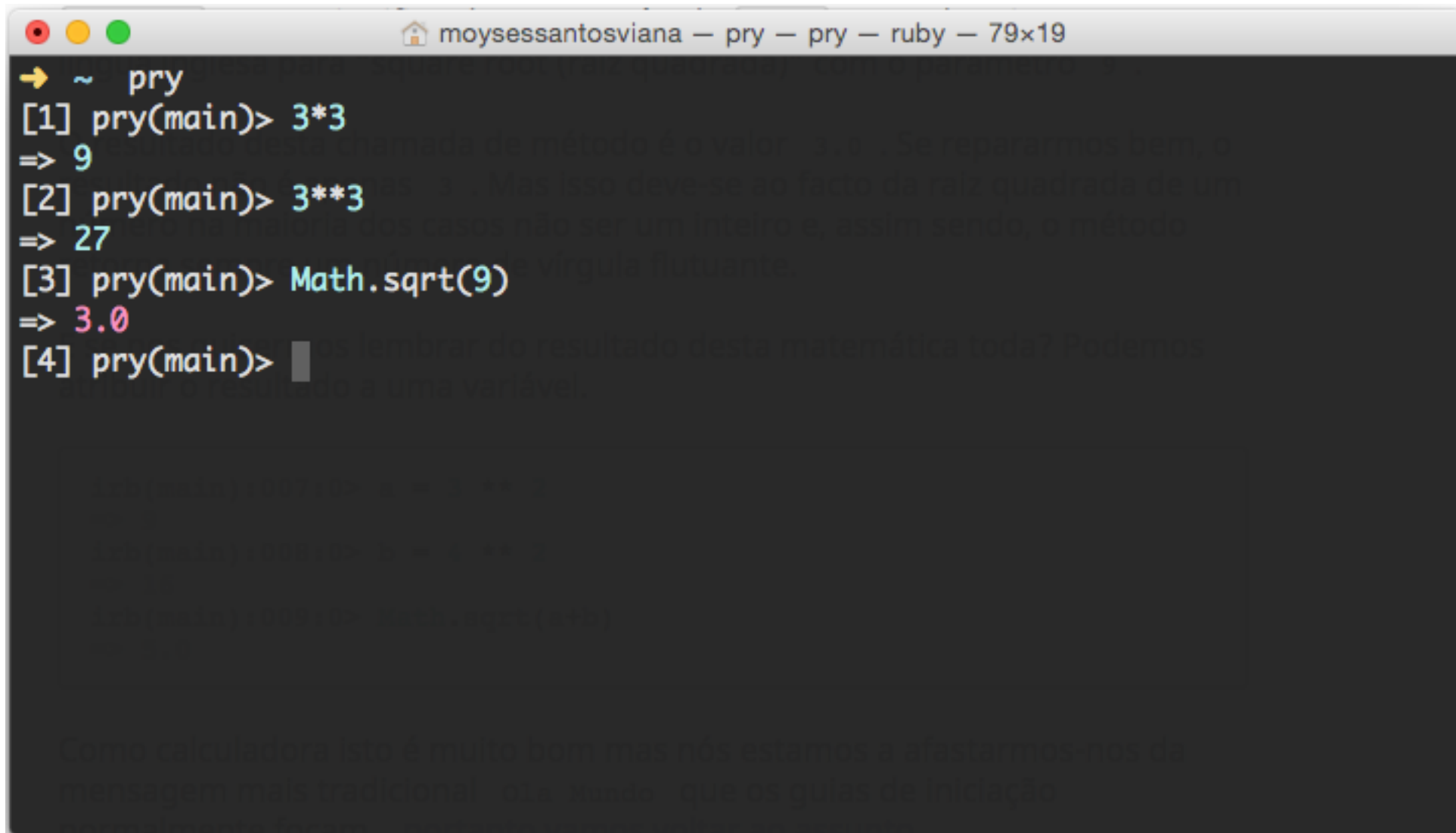
Usando caracter especiais

```
def ola(nome)  
  puts("olá #{nome}");  
end  
  
ola("moyses");
```

Sem caracter especiais

```
def ola nome  
  puts "olá #{nome}"  
end  
  
ola "moyses"
```

BRINCANDO DE CALCULAR



```
moysessantosviana — pry — pry — ruby — 79x19
→ ~ pry
[1] pry(main)> 3*3
=> 9
[2] pry(main)> 3**3
=> 27
[3] pry(main)> Math.sqrt(9)
=> 3.0
[4] pry(main)>
```

The screenshot shows a terminal window with a dark background and light-colored text. The window title bar at the top indicates the user is 'moysessantosviana' and the application is 'pry'. The prompt '→ ~ pry' shows the user has entered the Pry console. The first three lines of code show basic arithmetic: `3*3` returns `9`, `3**3` returns `27`, and `Math.sqrt(9)` returns `3.0`. The fourth line shows the prompt `[4] pry(main)>` with a cursor, indicating the user is ready to enter more code. The background of the terminal has some faint, semi-transparent text that appears to be from a presentation or document, but it is not the primary focus of the image.

CRIANDO BLOCOS DE CÓDIGOS

Dizendo olá varias vezes sem cansar os dedos.

```
moysessantosviana — pry — pry — ruby — 95x26
[10] pry(main)> def h
[10] pry(main)*   puts "Ola Mundo!"
[10] pry(main)* end
=> :h
[11] pry(main)> h
Ola Mundo!
=> nil
[12] pry(main)> h
Ola Mundo!
=> nil
[13] pry(main)> h
Ola Mundo!
=> nil
[14] pry(main)> h
Ola Mundo!
=> nil
[15] pry(main)> h
Ola Mundo!
=> nil
[16] pry(main)> h
Ola Mundo!
=> nil
[17] pry(main)> 
```

EVOLUINDO O OLÁ MUNDO

Dizendo olá a varias pessoas.

```
moysessantosviana — pry — pry — ruby — 87x24
[43] pry(main)> def ola(nome)
[43] pry(main)*   puts "ola #{nome}"
[43] pry(main)* end
=> :ola
[44] pry(main)> ola("moyses")
ola moyses
=> nil
[45] pry(main)> ola("Fulando")
ola Fulando
=> nil
[46] pry(main)>
```

CRIANDO CLASS EM RUBY

Criando um anfitrião.

```
moysessantosviana — pry — pry — ruby — 95x26
→ ~ pry
[1] pry(main)> class Anfitriao
[1] pry(main)*   def initialize(name = "Mundo")
[1] pry(main)*     @name = name
[1] pry(main)*   end
[1] pry(main)*   def diz_ola
[1] pry(main)*     puts "Ola #{@name}!"
[1] pry(main)*   end
[1] pry(main)*   def diz_tchau
[1] pry(main)*     puts "Ate logo #{@name}."
[1] pry(main)*   end
[1] pry(main)* end
=> :diz_tchau
[2] pry(main)> i = Anfitriao.new("Moyses")
=> #<Anfitriao:0x000001014fd038 @name="Moyses">
[3] pry(main)> i.diz_ola
Ola Moyses!
=> nil
[4] pry(main)> i.diz_tchau
Ate logo Moyses.
=> nil
[5] pry(main)> 
```

QUER IR ALEM?

- ~ <http://www.tryruby.org/>
- ~ <http://www.codecademy.com/tracks/ruby>
- ~ <http://www.codeschool.com/paths/ruby>
- ~ <http://www.howtocode.com.br/>
- ~ <http://www.casadocodigo.com.br/>
- ~ <http://www.tropicalrb.com/>