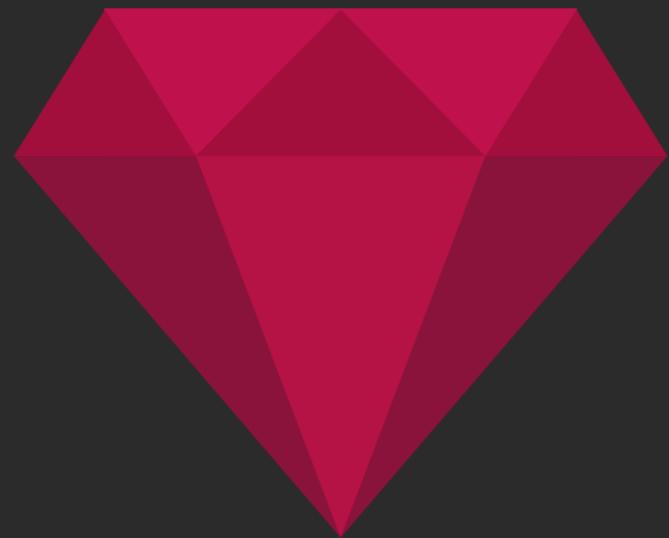


RUBY

BY EXAMPLE



Ruby is...
interpreted
object oriented
dynamic

Ruby is...
productive
intuitive
popular

VARIABLES & TYPES

Before we begin...

a.+
(b)

a.is_valid?

a.decrement!

\$counter	Global
@@counter	Class
@counter	Instance
counter	Local

'hello'
“hello”
%q{hello}

String
Herestring
Perl-inspired

```
a = 'James'  
b = "Hello #{a}"  
puts b
```

=> "Hello James"

:hello Symbol

```
puts <<DOC
  This is a "heredoc"
  Multi-line String
DOC
```

[1,2,3]

Array

{:a=>1, :b=>2}

Hash (1.8)

{a: 1, b: 2}

Hash (1.9)

0..10

Ranges

METHODS

```
def greet(name)
  "Hello, #{name}"
end
```

```
greet "James"
```

```
def greet(name="World")
  "Hello, #{name}"
end
```

```
greet "James"
greet
```

CONTROL FLOW

```
if rating >= 4
  puts "great"
elsif rating == 3
  puts "alright"
else
  puts "sucks"
end
```

```
unless rating == 5  
    puts "Try harder"  
end
```

puts “Try harder” unless rating == 5

puts “Seriously” if rating == 1

```
case rating
when 4..5
  puts "great"
when 3
  puts "alright"
else
  puts "sucks"
end
```

```
while file.has_more_lines?  
  puts file.next_line  
end
```

```
puts file.next_line while  
file.has_more_lines?
```

```
until file.end_of_file?  
  puts file.next_line  
end
```

```
puts file.next_line until  
file.end_of_file?
```

```
for i in 0...file.line_count  
  puts file.lines[i]  
end
```

BLOCKS

```
[1,2,3,4].each do |i|  
  puts i  
end
```

array.each(&block)

```
printer = Proc.new do |i|
  puts i
end
```

```
[1,2,3,4].each &printer
```

```
printer = lambda { |i| puts i }
```

```
def loggerWrapper
  puts "Executing Method"
  yield
  puts "Done Executing"
end

loggerWrapper{ puts "Weeee!" }
```

COLLECTIONS

109
50

Array/Enumerable
Operations
Hash
Operations

```
[1,2,3,4,5].map { |i| i + 1}
```

```
[1,2,3,4,5].reduce { |i, j| i + j }
```

```
({a: '1'}).merge({b: '2'})
```

CLASSES

```
class Person
  def initialize(name, age)
    @name, @age = name, age
  end
end
```

```
person = Person.new("James", 32)
```

```
class Person  
  attr_accessor :name  
  attr_accessor :age  
  
  ...  
end
```

```
p = Person.new("James", 32)  
puts p.name, p.age
```

```
class Person ... end
```

```
class Hero < Person  
  attr_accessor :powers  
end
```

```
p = Hero.new("James", 32)  
p.powers = ["Flying"]
```

MODULES & MIXINS

```
module StrUtils
  def self.salt(pass, slt)
    "#{pass}#{salt}"
  end
  def salt(slt)
    StrUtils::salt(@value, slt)
  end
end
```

```
StrUtils::salt("123", "456")
```

```
class Password
  include Utils
  def initialize(value)
    @value = value
  end
end
```

```
Password.new("test").salt
```

TOOLS OF THE TRADE

irb	Interactive shell
ruby	Ruby interpreter
gem	Library manager
rake	Build tool
rails	Web framework

RUBY

BY EXAMPLE

