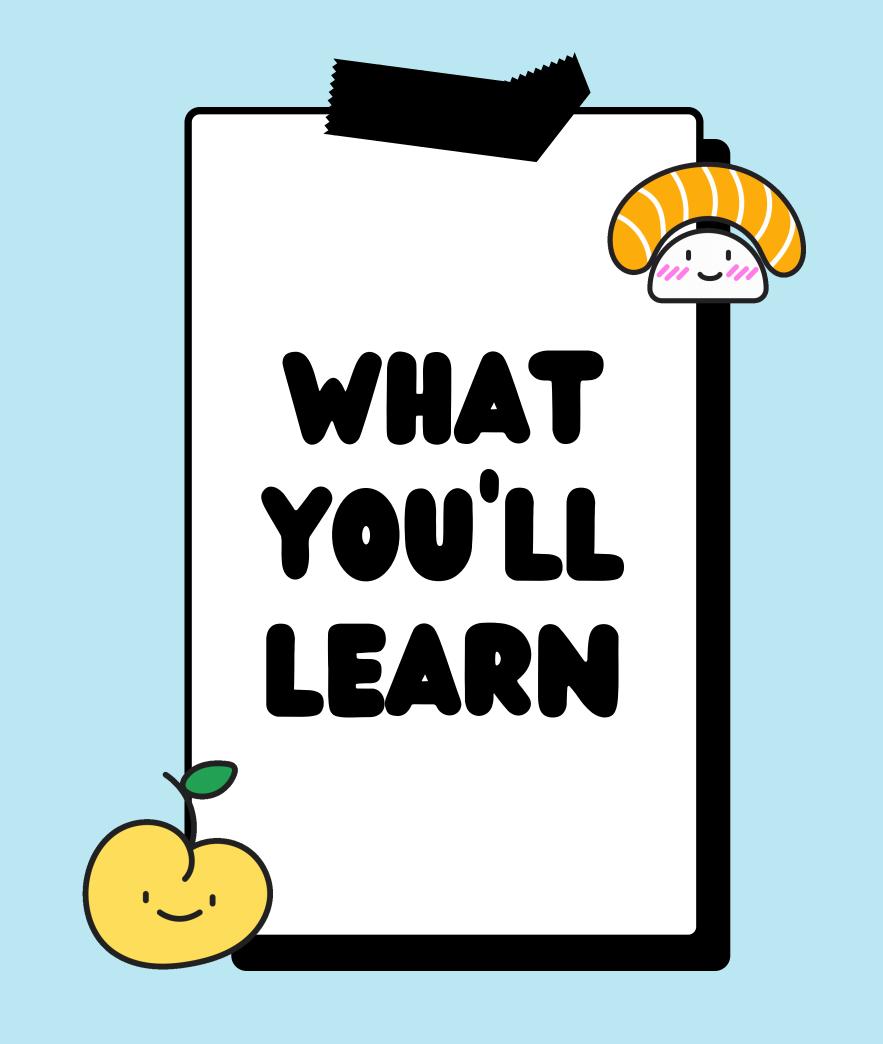
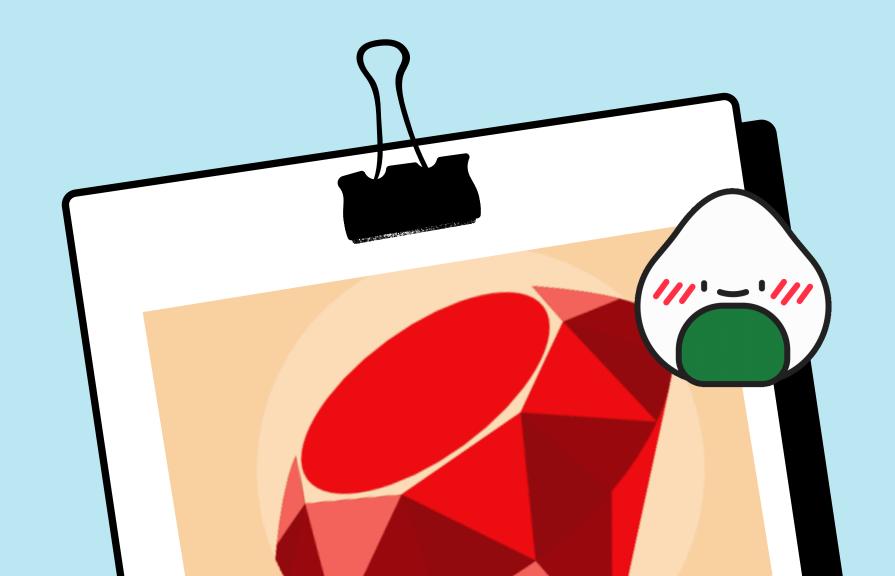


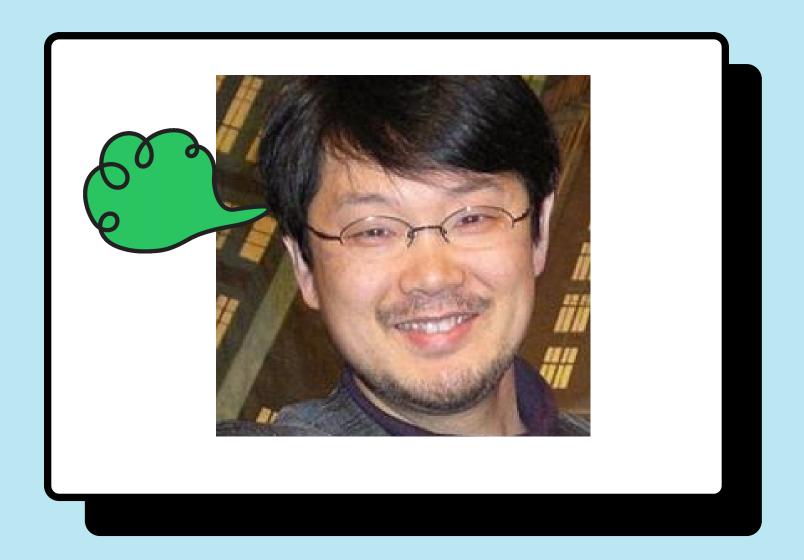
- I/O
- String Interpolation
- Console Arguments
- Type Conversions
- Require
- Implicit Returns
- Method Calls
- Hashes
- Classes
- Iterations
- Control Flow
- File Handling



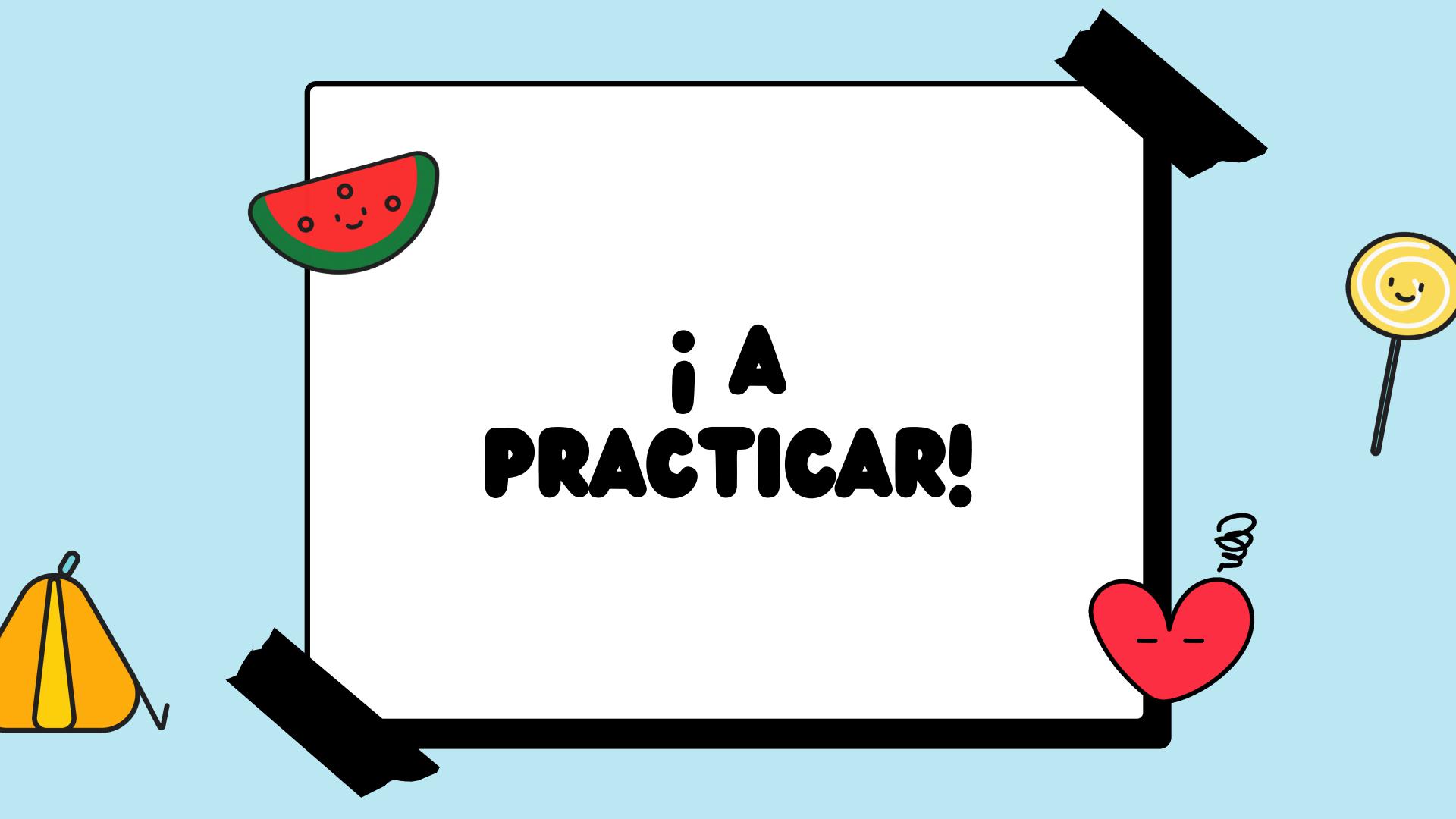
# IN POCO DE HISTORIA!

¿Quién fue el creador de Ruby?





- Yukihiro Matsumoto en 1995
- Sintaxis inspirada en Python y Perl



Input

gets → pide lo que ingresa el usuario.chomp → similar a strip.

Output

puts → imprime con "\n".print → puts pero sin el salto de línea.

Strings

"hola como estan" 'hola'

"ho" + "la" = "hola" → concatenación.

"estamos en el año #{año}" → string interpolation.

### ARGVS

arreglo con los argumentos dados por consola → separador: espacio

ruby archivo.rb argumento1 argumento2 argumento3

```
ARGV: ["argumento1", "argumento2", "argumento3"]
```

ARGV[1]: "argumento2"

require

require\_relative → importar un archivo del directorio.
require → importar una librería externa.

• Implicit returns una función siempre retorna lo último dado si no aparece un return :o

```
def addition(first, second)
return first + second
end
def addition(first, second)
first + second
first + second
end
# both return the addition of both numbers
```

 Method calls podemos hacer llamadas a funciones / métodos sin usar paréntesis :)

```
# Calls method as expected
puts("It's corona time!")

# Calls method WITHOUT parentheses... ¡¿WHAT?!
puts "It's corona time!"
```

# Hashes

```
hash = { "uno": 1, "dos": 2, "tres": 3 }
symbol_hash = { :uno => 1, :dos => 2, :tres => 3 }
```

:uno → symbols usan menos memoria.

```
1 hash["cuatro"] ## hash[:cuatro]
```

# Clases

```
1 class Pokemon # defines the name of the class
      attr_accessor :name # attribute name can be read and written
      attr_reader :life # attribute life can only be read
      attr_writer :type # attribute life can only be written
      def initialize(name, life, type) # __init__ method in python
        @name = name # self.name in python for attributes
        @life = life
        @type = type
10
      end
11
      def attack # defines method called attack
12
        puts "#{@name} attacks!" #
13
14
      end
15
    end
```

# • Herencia

```
class Electric < Pokemon # Electric inherits from Pokemon
def initizalize(name, life, attk, sp_atk)
super(name, life, attk) # calls initialize method from Pokemon
gsp_atk = sp_atk
end</pre>
```



## Iterar

```
week = ["M", "T", "W", "Th", "F", "Sa", "Sun"]

# iter over the week and print each day
week.each do |day| # day takes the value of each element in week
puts day
end

# iter over a range
(1..6).each do |number| # number takes values 1 to 6 (included)
puts number
end
(1...6).each do |number| # number takes values 1 to 5 (6 not included)
puts number
end
end
```

```
week.each_with_index do |day, index| # day takes the value of each
# element in week and index gives the position of the day in the
# week (enumerate in python)
puts "#{index}: #{day}"
end

index = 0
while index < week.lenght # lenght in ruby is len in python
puts week[index]
index += 1
end</pre>
```

• Control flow
list.each do |element|
unless → if not

```
numbers.each do |x|
if x < 0
puts "El número #{x} es negativo"
elsif x > 0
puts "El número #{x} es positivo"
else
puts "El número #{x} no es positivo ni negativo"
end
end
```

File Handling

require "csv" → librería para leer csv.

File.open(name, "type") do |f|

- "a" → append
- "w" → write
- "r" → read

# Sets

```
1 require 'set' # import set
2
3 newSet = Set.new # constructor of set class
4
5 newSet << 1 # add 1 to the set
6 newSet << 2 # add 2 to the set
7 newSet << 2 # add 2 to the set
8
9 puts newSet # log everything in the set</pre>
```

# Exceptions

```
begin ## Equivalent to try on python
puts "me ejecuto"
raise "un error"

rescue ## Except on python (you can also catch specific errors)
puts "capture el error"
end
```

