

Refactoring

Ruby Case Statement

In Ruby, a case statement is a more concise alternative to an if/else statement that contains many conditions.

```
tv_show = "Bob's Burgers"

case tv_show
  when "Archer"
   puts "I don't like the voice of
Archer."
  when "Bob's Burgers"
   puts "I love the voice of Bob
Belcher."
  else
   puts "I don't know who voices this
cartoon."
end

# => I love the voice of Bob Belcher.

#In this example, a case statement is
used to check for multiple possible
```

values of tv_show. Since tv_show is
"Bob's Burgers", the second when is
evaluated to true. If none of the

the else statement.

conditions were met, Ruby would evaluate



Ruby .respond_to?

In Ruby, .respond_to? takes a symbol representing a method name and returns true if that method can be called on the object and false otherwise.

```
puts "A".respond_to?(:push)
# => false
# Here, the following Ruby code will
return false since .push can't be called
on a String object.

puts "A".respond_to?(:next)
# => true
# Here, however, the following Ruby code
will return true since .next can be
called on a String object. Calling .next
```

on the letter "A" would return the letter

Ruby Short-Circuit Evaluation

When Ruby evaluates expressions containing boolean operators, it uses <code>short-circuit</code> evaluation. With \parallel , if the expression on the left evaluates to true, it will return true . Otherwise, it will check if the expression on the right evaluates to true. If so, the expression returns true; otherwise, it will return false . With && , both the expression on the left and the expression on the right have to evaluate to true in order to return true . If either expression is false, it will return false

```
b = false
c = true

puts a || b
#Output => true
puts b || a
#Output => true
puts a && c
#Output => true
puts a && b
#Output => false
```

w//

a = true

Ruby Ternary Operator

In Ruby, a *ternary* operator is a more concise alternative to an if/else. It consists of a *conditional*, followed by ? and an expression to be evaluated if the conditional is true, and then : and an expression to evaluate if the conditional is false.

```
tacos_eaten = 12

puts tacos_eaten >= 5 ? "Sir, you've had
enough!" : "Keep eating tacos!"

# => Sir, you've had enough!
```



Ruby .upto and .downto Methods

In Ruby, the .upto and .downto methods are used to iterate over a specific range of values.

```
"B".upto("F") { |letter| print letter, "
" }
# => B C D E F

5.downto(0) { |num| print num, " " }
# => 5 4 3 2 1 0
```

#In both examples, Ruby iterates over specified ranges using the initial value, a .downto or .upto method, and a final value. Each element is passed into the block following the .upto or .downto method.

Ruby Conditional Assignment Operator

In Ruby, a conditional assignment operator (\parallel =) assigns a real value to a variable only when its current value is false or nil . Otherwise, Ruby keeps its original value.

```
boyfriend = nil
boyfriend ||= "Jimmy Jr."
boyfriend ||= "Josh"
puts boyfriend
# => "Jimmy Jr."
```

In this example, since the original value of boyfriend is set to nil which is nothing, Ruby assigns it a value of "Jimmy Jr." on the following line. Once boyfriend holds this real value, another reassignment is overlooked by Ruby and the previous value holds.



Ruby .push Method Alternative

In Ruby, an alternative to the .push method is the concatenation operator << which can be used to add an element to the end of an array or a string.

```
array = [1, 2, 3]
array << 4
print array
#Output => [1, 2, 3, 4]

puts "Hello," << " welcome to
Codecademy."
#Output => Hello, welcome to Codecademy.
```

Ruby "if" Statement Short Expression

In Ruby, the if statement can be expressed in a single line in the case of a short expression. This single line would consist of an expression followed by the if keyword and finally an expression that evaluates to either true or false.

```
num = 6

if num % 2 == 0
  puts "This number is even!"
end

#Refactored, this can be stated in a single line as demonstrated below:
puts "This number is even!" if num % 2 == 0
```

Ruby Implicit Return

In Ruby, the return keyword in a method can be omitted making it an *implicit return*, in which Ruby automatically returns the result of the last evaluated expression.

```
def product(x,y)
   x * y
end

product(5, 4)
# => 20
#In this example, Ruby evaluates the
product method and returns 20 even though
the return keyword was omitted.
```

