Ruby Case Expressions &

Ruby Iterators (for, while loops)

Kaichi, Elmer, (Johnathan)

Loop

- Simple Loop
- Control Loop Execution (do end loop)
- While loop
- Do/While Loop
- Until Loop
- For Loop

Simple Loop

The simplest way to create a *loop* in Ruby is using the *loop* method.

```
This will keep printing until you hit Ctrl + c
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This will keep printing until you hit Ctrl + cInter
from (pry):2:in `puts'
[2] pry(main)>
```

Control Loop Execution

The *break* keyword allows us to exit a loop at any point, so any code after a *break* will not be executed.

```
1  $ ruby conditional_loop.rb
2  2
3  4
4  6
5  8
6  10
```

While Loops

• A while loop is a given that parameter confirms to a boolean. Once the boolean becomes false, the while loop is not executed again.

```
# countdown.rb
x = gets.chomp.to_i
while x >= 0
  puts x
  x = x - 1
end
puts "Done!"
```

Do/While Loop

A do/while loop works in a similar way to a while loop; one important difference is that the code
within the loop gets executed one time, prior to the conditional check to see if the code should be
executed. In a "do/while" loop, the conditional check is placed at the end of the loop as opposed to
the beginning.

```
1  # perform_again.rb
2
3  loop do
4  puts "Do you want to do that again?"
5  answer = gets.chomp
6  if answer != 'Y'
7  break
8  end
9  end
```

Do/While Loop Example 2

```
begin
puts "Do you want to do that again?"
answer = gets.chomp
end while answer == 'Y'
```

Until Loop

The *until loop* is simply the opposite of the *while loop*. You can substitute it in order to phrase the problem in a different way.

```
irb(main):001:0> x = gets.chomp.to_i
5
=> 5
irb(main):002:0> until x < 0
irb(main):003:1> puts x
irb(main):004:1> x -= 1
irb(main):005:1> end
5
```

While Loop

```
1   arr = ["John", "George", "Paul", "Ringo"]
2   i = 0
3
4   while arr[i]
5     puts arr[i]
6     i += 1
7   end
```

While as a modifier

```
1   arr = ["John", "George", "Paul", "Ringo"]
2   i = -1
3
4   puts arr[i += 1] while arr[i]
```

For loop

```
1 arr = ["John", "George", "Paul", "Ringo"]
2
3 for item in arr
4  puts item
5 end
```



I Am Devloper @iamdevloper · 5m1/3 of US bandwidth is used by Netflix...

the rest is used by 'rm -rf node_modules && npm install'







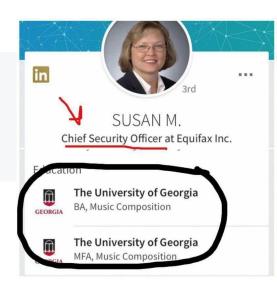


V

For loop with string interpolation

```
joe = { :name => "Joe", :age => 30, :job => "plumber" }

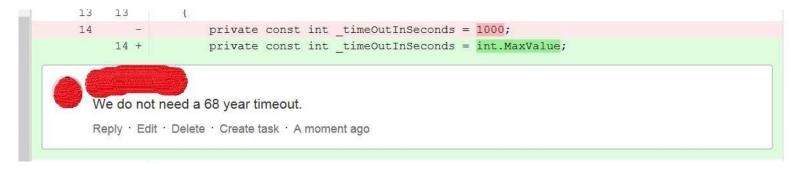
for key, val in joe
   puts "#{key} is #{val}"
end
```



Ruby Case Expression

Normal

```
01 hour = 15
02
03 case
04 when hour < 12
05 puts "Good Morning"
06 when hour > 12 && hour < 17
07 puts "Good Afternoon"
08 else
09 puts "Good Evening"
10 end
```



Ruby Case Expression

v2

```
hour = 15
02
    message = case
        when hour < 12
             "Good Morning"
        when hour > 12 && hour < 17
06
             "Good Afternoon"
        else
             "Good Evening"
        end
    puts message
```



MacOS



Linux



Windows