

Ruby 101

Advanced Ruby: Fibers



Ruby 101

When threads are too much: Fibers

Like threads, except:

Fibers must be controlled by the programmer
They are never automatically scheduled
Fibers must cooperate with scheduling



Creating a Fiber:

```
my_fiber = Fiber.new do
```

• • •

end



Fiber class methods:

Fiber instance methods:

to continue processing; can't be resumed

- .resume vars => starts a fiber or resumes it

(must require 'fiber')
(variables -> passed to program block on first
execution, then passed as the value of the last
yield statement to be executed)

Fiber Example

```
count fiber = Fiber.new do |base|
   next resume = Fiber.yield base += 1
   next resume += 1
end
a = count fiber.resume 1
puts a
b = count fiber.resume a + 2
puts b
    -Output-
```



Fiber Example

```
count fiber = Fiber.new do |base|
   next resume = Fiber.yield base += 1
   next resume += 1
end
a = count fiber.resume 1
puts a
b = count fiber.resume a + 2
puts b
    -Output-
```



puts a

Fiber Example 2 require 'fiber' count fiber = Fiber.new do |base| next resume = Fiber.yield base += 1 next resume += 1 end starting fiber = Fiber.new do puts "Start with 1" next var = count fiber.transfer 1 count fiber.transfer next var end a = starting fiber.resume puts a a = starting fiber.transfer a puts a a = starting fiber.transfer a



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Fiber Example: Output

Start with 1

2

3

3

