# Ruby - Feature #6684

# Object#do

07/02/2012 11:07 AM - merborne (kyo endo)

Status:	Rejected	
Priority:	Normal	
Assignee:		
Target version:		

#### Description

=begin #Object#do

This is my first post.

# 

Let me propose a new method Object#do.

### 

```
class Object
  def do(*args, &blk)
     yield(self, *args)
  end
end
```

do encapsulate a sequencial procedure into a block. It makes some temporal variables to be block local and enhance code readability. I might say that do is an Object#tap with block result, or is Array#map for one item.

### ##Usage

```
# calculate average and standard deviation for list
# without `do`
scores = [56, 87, 49, 75, 90, 63, 65]
scores.inject(:+) / scores.size # => 69
avg = scores.inject(:+) / scores.size
sigmas = scores.map \{ |n| (avg - n)**2 \}
sd = Math.sqrt(sigmas.inject(:+) / scores.size) # => 14.247806848775006
# with `do`
avg = [56, 87, 49, 75, 90, 63, 65].do { |s| s.inject(:+) / s.size } # => 69
sd = scores.do { |s|
 avg = s.inject(:+) / s.size
 sigmas = s.map \{ |n| (avg - n)**2 \}
 Math.sqrt(sigmas.inject(:+) / s.size)
sd # => 14.247806848775006
# create a hash from a set of lists
# without `do`
h = Hash[ [:a, :b, :c].zip([1, 2, 3]) ] # => {:a=>1, :b=>2, :c=>3}
h = [:a, :b, :c].zip([1,2,3]).do { |arr| Hash[arr] } # => {:a=>1, :b=>2, :c=>3}
# sum of array using recursion
```

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```
# without `do`
def sum(lst, mem=0)
 return mem if lst.empty?
 sum(lst.drop(1), mem+lst.first)
sum [*1..5], 5 # => 20
# or
def sum(lst, mem=0)
 return mem if lst.empty?
 fst, *tail = lst
 sum(tail, mem+fst)
end
# with `do`
def sum(lst, mem=0)
 return mem if lst.empty?
 lst.do { |fst, *tail| sum(tail, mem+fst) }
end
sum2 [*1..5], 5 # => 20
```

BasicObject#instance eval works for the above, but it not appropriate for them.

Thank you for your consideration.

end=

#### **Related issues:**

Related to Ruby - Feature #6721: Object#yield\_self

Closed

Has duplicate Ruby - Feature #12760: Optional block argument for `itself`

Closed

#### History

#### #1 - 07/04/2012 04:17 PM - nobu (Nobuyoshi Nakada)

something.do do end seems messy a little.

something.do do end

## #2 - 07/04/2012 04:32 PM - knu (Akinori MUSHA)

I'm afraid do might be a bit too bold choice for a Kernel method. (DBI has a do method for example)

You can use tap for now, like result = object.tap { |o| break f(o) }.

Speaking of which, I've always felt that it would be nice if object.{ ... } was a shorthand for object.instance\_eval { ... }, but I can't think of a do-end counterpart for that.

# #3 - 07/04/2012 09:33 PM - merborne (kyo endo)

nobu (Nobuyoshi Nakada) wrote:

something.do do end seems messy a little.

Yes. something.do do end is messy. I'm happy if something.do end works.. I agree the name is not good.

#### #4 - 07/04/2012 09:43 PM - merborne (kyo endo)

knu (Akinori MUSHA) wrote:

You can use tap for now, like result = object.tap  $\{ |o| \text{ break } f(o) \}.$ 

great alternative!

I'm satisfied with this. Thank you.

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# #5 - 07/08/2012 09:47 AM - sorah (Sorah Fukumori)

- Status changed from Open to Rejected

No problem to reject?

### #6 - 07/08/2012 05:16 PM - merborne (kyo endo)

sorah (Shota Fukumori) wrote:

No problem to reject?

no problem. thank you.

# #7 - 11/20/2015 06:04 PM - nobu (Nobuyoshi Nakada)

- Related to Feature #6721: Object#yield\_self added

### #8 - 09/20/2016 12:55 AM - nobu (Nobuyoshi Nakada)

- Has duplicate Feature #12760: Optional block argument for `itself` added

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