

Ruby trunk - Feature #709

Enumerator#+

11/03/2008 07:02 PM - candlerb (Brian Candler)

Status:	Rejected	
Priority:	Normal	
Assignee:	knu (Akinori MUSHHA)	
Target version:	2.0.0	
Description		
=begin Enumerators could be directly composable: class Enumerator def +(other) Enumerator.new do y each { e y << e } other.each { e y << e } end end end		
if FILE == \$0 a = (1..3).to_enum + (10..12).to_enum + (17..20).to_enum a.each { i puts i } end		
The only problem I can see here is that this might open the floodgates to requests for more methods such as & and , and it's not clear how those would behave. (Personally I'd go for a merge which compares the head items from each of the operands, which assumes that the operands are already in sorted order, but others may disagree) =end		
Related issues:		
Related to Ruby trunk - Feature #15144: Enumerator#chain		Closed

History

#1 - 11/04/2008 05:27 AM - candlerb (Brian Candler)

```
=begin
For clarity, here's what that example outputs:

$ ruby19 -v
ruby 1.9.1 (2008-10-28 revision 19983) [i686-linux]
$ ruby19 enum_plus.rb
1
2
3
10
11
12
17
18
19
20
$

=end
```

#2 - 11/29/2008 04:31 PM - ko1 (Koichi Sasada)

- Assignee set to matz (Yukihiko Matsumoto)

```
=begin
=end
```

#3 - 12/12/2008 07:37 PM - knu (Akinori MUSHA)

- Status changed from Open to Rejected

- Assignee changed from matz (Yukihiko Matsumoto) to knu (Akinori MUSHA)

=begin

To tell the truth, I was also tempted to add something like that and you are not alone.

You might as well add:

```
class Enumerator
```

```
  alias * cycle
```

```
  def -@
```

```
    Enumerator.new { |y| to_a.reverse_each { |i| y << i } }
```

```
  end
```

```
end
```

and have fun with them as follows:

```
e = [1,4,7].each * 3 + ("a".."c").each
```

```
p e.to_a #=> [3, 2, 1, 3, 2, 1, 3, 2, 1, "a", "b", "c"]
```

However, I am yet to think that even the addition of enumerators is so commonly in need.

Besides, as you said, operators must be carefully chosen and defined so that they work consistently and systematically and they look intuitive and practical, all at the same time. We should also think how other types of iterators should be introduced, such as bidirectional iterators and indexable iterators, before defining a variety of operators for the current Enumerator.

So, my answer here, for now, is the block based enumerator. Just as you have aptly shown, you can define anything you like with it without the need for predefined operators.

=end

#4 - 10/10/2018 06:02 AM - knu (Akinori MUSHA)

- Related to Feature #15144: Enumerator#chain added

#5 - 10/10/2018 06:12 AM - knu (Akinori MUSHA)

- Description updated

I've become positive about this proposal after experiences with potential use cases.

In today's developer meeting, Matz approved this proposal, so I'm going to start working on this!