

## Ruby - Feature #8506

### Object#iter\_for / Object#to\_iter

06/09/2013 10:31 PM - alindeman (Andy Lindeman)

<b>Status:</b>	Rejected	
<b>Priority:</b>	Normal	
<b>Assignee:</b>		
<b>Target version:</b>		
<b>Description</b>  =begin Ruby's (({Enumerator})) and (({#enum_for})) methods are very powerful and I use them very often. However, (({Object#enum_for})) requires a method that yields, usually in some sort of loop.  Many objects in Ruby have methods that iterate to a "next value," but do not yield. For example, (({Fixnum#next.})) There is no way to use (({Fixnum#next})) with (({#enum_for})) directly that I am aware of.  I propose the introduction of (({Object#iter_for})) which--given a method--generates a lazy sequence by continually invoking the method on successive values. I call it (({iter})) or (({iterate})) because it is very similar to clojure's iterate: <a href="http://clojure.github.io/clojure/clojure.core-api.html#clojure.core/iterate">http://clojure.github.io/clojure/clojure.core-api.html#clojure.core/iterate</a>  Proposed API:  0.iter_for(:next).take(5) # => [0, 1, 2, 3, 4]  require 'date' Date.new(2013, 1, 1).iter_for(:next_month).take(3) # => [Tue, 01 Jan 2013, Fri, 01 Feb 2013, Fri, 01 Mar 2013]  I am especially excited about (({0.iter_for(:next)})) as I find myself using infinite lazy numeric sequences more often lately to solve specific kinds of problems. Right now you are required to write something like: (({Enumerator.new {  y  i = 0; loop { y << i; i += 1 } }}})) or (({0..Float::INFINITY}.each))). Neither is especially elegant or happy to the developers' eyes in my opinion.  Thank you all :) Ruby is an amazing tool. =end		
<b>Related issues:</b> Related to Ruby - Feature #20625: Object#chain_of <span style="float: right;">Open</span>		

#### History

##### #1 - 06/09/2013 10:34 PM - Anonymous

+1

##### #2 - 06/10/2013 12:38 AM - Anonymous

Btw., regarding Qbject#to\_enum, what is your opinion? Do you use it often? Or is there something about it that makes it less useful?

##### #3 - 06/10/2013 02:44 PM - nobu (Nobuyoshi Nakada)

- Description updated

You may want to show the implementation in ruby (and tests)?

##### #4 - 06/10/2013 05:20 PM - Eregon (Benoit Daloze)

Here is the related blogpost: <http://alindeman.github.io/2013/06/10/porting-iterate-to-ruby.html>

##### #5 - 06/10/2013 05:21 PM - phluid61 (Matthew Kerwin)

nobu (Nobuyoshi Nakada) wrote:

You may want to show the implementation in ruby (and tests)?

Here is an implementation: <https://gist.github.com/phluid61/5747216>

#### #6 - 01/23/2024 01:50 PM - p8 (Petrik de Heus)

The following examples:

```
0.iter_for(:next).take(5) # => [0, 1, 2, 3, 4]
```

```
Date.new(2013, 1, 1).iter_for(:next_month).take(3) # => [Tue, 01 Jan 2013, Fri, 01 Feb 2013, Fri, 01 Mar 2013]
```

... can now be created with Enumerator.produce:

```
Enumerator.produce(0, &:succ).take(5) => [0, 1, 2, 3, 4]
```

```
Enumerator.produce(Date.new(2013, 1, 1), &:next_month).take(3) => [Tue, 01 Jan 2013, Fri, 01 Feb 2013, Fri, 01 Mar 2013]
```

#### #7 - 01/23/2024 03:10 PM - Eregon (Benoit Daloze)

- *Status changed from Open to Rejected*

Right, so given they do the same or very similar, let's close this.

#### #8 - 08/01/2024 06:29 AM - mame (Yusuke Endoh)

- *Related to Feature #20625: Object#chain\_of added*