

Ruby master - Feature #7654

Add optional code block to IO::readlines

01/04/2013 10:15 PM - shock_one (Володимир Шацький)

Status:	Open
Priority:	Normal
Assignee:	matz (Yukihiro Matsumoto)
Target version:	
Description Of course, we always can write something like <code>File.readlines('/home/shock_one/test.rb').map{ line line.upcase }</code> but this way we create unneeded intermediate array which can be pretty big. There is also a method <code>IO::foreach</code> , but it doesn't collect return values. Besides it seems pretty logical and natural to have a block in this method.	

History

#1 - 01/04/2013 10:27 PM - shock_one (Володимир Шацький)

Just to be clear: code block will allow to write the first code snippet as follows:
`data = File.readlines('/home/shock_one/test.rb'){ |line| line.upcase }`

#2 - 01/04/2013 11:37 PM - Eregon (Benoit Daloze)

Why not

```
File.foreach('test.rb').map { |line| line.upcase }
```

?

It does not create an intermediary Array.

If you need to do other operations lazily (without an intermediate result), you could use `#lazy`:

```
File.foreach('test.rb').lazy.select { |line| line.start_with? '/' }.map { |line| line.upcase }.to_a
```

#3 - 01/04/2013 11:45 PM - Eregon (Benoit Daloze)

But of course the main memory usage here are likely String instances, so you could update them in place if possible:

```
File.foreach('test.rb').map { |line| line.upcase!; line }  
# or  
lines = File.readlines('test.rb')  
lines.each(&:upcase!)
```

#4 - 01/04/2013 11:48 PM - Eregon (Benoit Daloze)

(There is also `Array#map!`)

#5 - 01/05/2013 12:52 AM - shock_one (Володимир Шацький)

Thank you, Eregon, especially for in place methods. I should definitely pay more attention to them - functional languages made me a little suspicious of this sort of things.

But I still think it would be nice to have an optional block in `IO::readlines`, at least for convenience. `Enumerable#grep` has similar behavior and I find it really cool and useful. Also this change doesn't break anything, is easy to implement and makes the code more concise.

#6 - 01/25/2013 12:17 PM - ko1 (Koichi Sasada)

next minor issue or 2.0.0 issue?

#7 - 01/26/2013 06:19 AM - drbrain (Eric Hodel)

I think next minor. It is a new feature but trunk is closed for new features.

#8 - 01/26/2013 06:37 AM - drbrain (Eric Hodel)

- Target version set to 2.6

#9 - 02/22/2013 09:12 AM - ko1 (Koichi Sasada)

- Assignee set to matz (Yukihiro Matsumoto)

#10 - 12/25/2017 06:15 PM - naruse (Yui NARUSE)

- Target version deleted (2.6)