Vector#each and Enumerable

Description

Vector should implement #each and include Enumerable, since it is so Array-like.

Enumerable methods that return an array should probably be specialized to return a Vector (e.g. map, first, ...)

See also [ruby-core:28403], [redmine:2831]

History

#1 - 03/03/2010 04:27 PM - matz (Yukihiro Matsumoto)
- Status changed from Open to Closed
- % Done changed from 0 to 100

This issue was solved with changeset r26801.
Marc-Andre, thank you for reporting this issue.
Your contribution to Ruby is greatly appreciated.
May Ruby be with you.

#2 - 03/09/2010 01:29 PM - marcandre (Marc-Andre Lafortune)
- Status changed from Closed to Open

Thanks Matz.

Vector#map/collect should return Vector, no?
I'm fine with the others methods, like #drop(_while), #find(_all), #first, returning arrays though.

#3 - 03/09/2010 02:20 PM - matz (Yukihiro Matsumoto)

In message "Re: [ruby-core:28571] Feature #2832 Vector#each and Enumerable" on Tue, 9 Mar 2010 13:29:03 +0900, Marc-Andre Lafortune redmine@ruby-lang.org writes:

I don't think so. It returns a collection of values given from the block. Array is a representation of collection. Matrix#collect now returns Matrix, but I consider it caused by misunderstanding.

matz.

#4 - 03/31/2010 06:42 AM - marcandre (Marc-Andre Lafortune)
- Assignee changed from keiju (Keiju Ishitsuka) to marcandre (Marc-Andre Lafortune)
I'm probably crazy, and I must be the only one wishing this, but I wish that `collect` was used to collect elements (and always returned an array), while `map` was used to map an object by applying a functor to its element (and returned the original class when possible, like Set, Matrix, ...)

I think Vector#to_a#map is better than Vector#collect, since it's far more explicit for that purpose

I agree with the fact methods like `map` should return their own kind of Enumerable (for example sorting a Hash result in an Array)

Marc-Andre, what do we have to do about this ticket?
I'm setting to next minor. Let me know if there is any task for 2.0.0.

Marc-Andre Lafortune

Right, let's close this.
I still think that Vector#map & select be covariant, and I'll change them if ever there's a request to second that.