

Ruby trunk - Feature #4653

[PATCH 1/1] new method Enumerable#rude_map

05/08/2011 11:00 PM - shyouhei (Shyouhei Urabe)

Status:	Rejected
Priority:	Normal
Assignee:	matz (Yukihiro Matsumoto)
Target version:	2.0.0

Description

From e6dd7bd9b5769bae5d81416da7a2b4003a43ba06 Mon Sep 17 00:00:00 2001
Message-Id: e6dd7bd9b5769bae5d81416da7a2b4003a43ba06.1304863013.git.shyouhei@ruby-lang.org
From: URABE, Shyouhei shyouhei@ruby-lang.org
Date: Sun, 8 May 2011 22:51:28 +0900
Subject: [PATCH 1/1] new method Enumerable#rude_map

```
map
map
izma
HTML escape
izma
HTML escape
izcat
popen
io.each_line.map.with_index.map... Ruby
map
Enumerator
map
Enumerator
map
flat_map
map
```

Signed-off-by: URABE, Shyouhei shyouhei@ruby-lang.org

```
diff --git a/enum.c b/enum.c
index 584b838..449406b 100644
--- a/enum.c
+++ b/enum.c
@@ -462,6 +462,41 @@ enum_flat_map(VALUE obj)
return ary;
}

+static VALUE
+rude_map_ii(VALUE i, VALUE y, int c, VALUE *v)
+{
+  return rb_funcall(y, rb_intern("<<"), 1, enum_yield(c, v)); +} +
+static VALUE +rude_map_i(VALUE y, VALUE i, int c, VALUE *v)
+{
+  return rb_block_call(i, id_each, 0, 0, rude_map_ii, y); +} +
+/*
+ * call-seq:
+ *   enum.rude_map { |obj| block } -> enumerator
+ *   enum.rude_map      -> enumerator
+ *
+ * Identical to Enumerable#map, except that it returns an enumerator
+ * rather than an array.
+ *
+ * Without a block it is just another Object#to_enum.
+ */
+static VALUE +enum_rude_map(VALUE obj) +{
+  VALUE ret;
+  RETURN_ENUMERATOR(obj, 0, 0); +
+  ret = rb_obj_alloc(rb_cEnumerator);
+  rb_block_call(ret, rb_intern("initialize"), 0, 0, rude_map_i, obj);
```


Enumerable#map

Enumerable#map(-er (-or) Enumerable#map (Enumerable#map)
<http://d.hatena.ne.jp/ku-ma-me/20091111/p2>

Enumerable#_lz
https://github.com/antimon2/enumerable_lz/tree/master/lib/enumerable_lz

Enumerable#map
Enumerable#map

2.0 Enumerable#map

--
Yusuke Endoh mame@tsg.ne.jp

#4 - 05/09/2011 12:23 AM - shyouhei (Shyouhei Urabe)

(05/08/2011 11:21 PM), Yusuke ENDOH wrote:

Enumerable

2011年5月8日 23:01 Shyouhei Urabe shyouhei@ruby-lang.org:

Enumerable#map Enumerable#Enumerator#map Enumerable#map
Enumerable#map

Enumerable#map

big_ary.map {|x| ... }.max

def _map; Enumerator.new {|y| each {|i| y << yield(i) }}; end
Enumerable#map

Enumerable#map Enumerable#select Enumerable#take Enumerable#conversion
Enumerable#map

Enumerable#map
Enumerable#map

Enumerable#map lazy Enumerable#delay Enumerable#rude
rude Enumerable#rude 5
Enumerable#map

Enumerable#map
Enumerable#map
Enumerable#map

Enumerable#map
Enumerable#map
Enumerable#rude
Enumerable#map

Enumerable#map
Enumerable#map

2.0 Enumerable#map

Mathn.require
selector namespace
Enumerable#map

Enumerable#map
Enumerable#map(+Enumerable#map)

#5 - 05/09/2011 12:23 AM - shyouhei (Shyouhei Urabe)

(05/08/2011 11:21 PM), Yusuke ENDOH wrote:


```
mathn require
selector namespace
```

2.0 selector namespace (refinement)
Enumerator #[] Array

1.9
-er L mapL selectL
2.0 rude_

--
Yusuke Endoh mame@tsg.ne.jp

#7 - 05/09/2011 01:23 AM - mame (Yusuke Endoh)

2011050900:07 Urabe Shyouhei shyouhei@ruby-lang.org:

```
mapL
selectL
```

```
mapL
selectL
```

```
mapL
selectL
```

1

```
mapL
selectL
```

2.0

```
mathn require
selector namespace
```

2.0 selector namespace (refinement)
Enumerator #[] Array

1.9
-er L mapL selectL
2.0 rude_

--
Yusuke Endoh mame@tsg.ne.jp

#8 - 05/09/2011 05:23 PM - shyouhei (Shyouhei Urabe)

(05/09/2011 12:35 AM), Yusuke ENDOH wrote:

```
mapL
selectL
```

2.0

```
mathn require
selector namespace
```

2.0 selector namespace (refinement)
Enumerator #[] Array

1.9
-er L mapL selectL
2.0 rude_

```
mapper
flat_map _map
lazy_map
```

```
flat_map _map
lazy_map
```

#9 - 05/09/2011 05:23 PM - shyouhei (Shyouhei Urabe)

(05/09/2011 12:35 AM), Yusuke ENDOH wrote:

```
map
```

2.0

```
mathn require
selector namespace
```

2.0 selector namespace (refinement)
Enumerator #[] Array

1.9
-er L mapL selectL
2.0 rude_

```
mapper
flat_map _map
lazy_map
```

```
flat_map _map
lazy_map
```

#10 - 05/10/2011 02:23 PM - shyouhei (Shyouhei Urabe)

(05/09/2011 05:21 PM), Akinori MUSHA wrote:

At Mon, 9 May 2011 16:35:31 +0900,
Urabe Shyouhei wrote:

```
flat_map _map
lazy_map
```

```
map_enum
```

```
rude lazy
```

#11 - 05/10/2011 02:23 PM - shyouhei (Shyouhei Urabe)

(05/09/2011 05:21 PM), Akinori MUSHA wrote:

At Mon, 9 May 2011 16:35:31 +0900,
Urabe Shyouhei wrote:

```
flat_map
lazy_map
```

```
map_enum
```

```
rude lazy
```

#12 - 05/10/2011 11:09 PM - sorah (Sorah Fukumori)

```
conversion
```

```
Enumerator#defer
```

```
[1,2,3].map.defer{|x| x*2 }.each_with_index.map.defer do |x,i|
  "#{x}: #{i}"
end.each {|x| puts x }
```

<https://gist.github.com/964510>

#13 - 05/11/2011 09:23 AM - mame (Yusuke Endoh)

20110510 23:09 Shota Fukumori sorah@tubusu.net:

```
conversion
```

```
Enumerator#defer
```

```
conversion
```

```
$.ruby -e 'p [1, 2, 3].select {|x| x.even? }'
[2]
```

```
$.ruby -e 'p [1, 2, 3].select.defer {|x| x.even? }.to_a'
[false, true, false]
```

```
map select Array
rb_ary_push
mapL selectL
```

```
Enumerator Array to_a
Array Enumerator
```

--
Yusuke Endoh mame@tsg.ne.jp

#14 - 05/11/2011 09:23 AM - mame (Yusuke Endoh)

20110510 23:09 Shota Fukumori sorah@tubusu.net:

```
conversion
```

```
Enumerator#defer
```

conversion

```
$.ruby -e 'p [1, 2, 3].select {|x| x.even? }'  
[2]
```

```
$.ruby -e 'p [1, 2, 3].select.defer {|x| x.even? }.to_a'  
[false, true, false]
```

map select Array
rb_ary_push
mapL selectL

Enumerator Array to_a
Array Enumerator

--
Yusuke Endoh mame@tsg.ne.jp

#15 - 05/11/2011 09:29 AM - sorah (Sorah Fukumori)

2011/5/11 Yusuke ENDOH mame@tsg.ne.jp:

```
map select Array  
rb_ary_push  
mapL selectL  
# defer.map{|x|...}.to_lazy.map{|x|...}
```

...

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Shota Fukumori a.k.a. @sora_h - <http://codnote.net/>

#16 - 05/11/2011 09:29 AM - sorah (Sorah Fukumori)

2011/5/11 Yusuke ENDOH mame@tsg.ne.jp:

```
map select Array  
rb_ary_push  
mapL selectL  
# defer.map{|x|...}.to_lazy.map{|x|...}
```

...

--
Shota Fukumori a.k.a. @sora_h - <http://codnote.net/>

#17 - 05/13/2011 04:23 AM - shyouhei (Shyouhei Urabe)

(05/10/2011 11:09 PM), Shota Fukumori wrote:

conversion

map

lazy_map map_enum
lazy_enum

#18 - 05/13/2011 04:23 AM - shyouhei (Shyouhei Urabe)

(05/10/2011 11:09 PM), Shota Fukumori wrote:

conversion

map

