Ruby - Feature #3647

Array#sample(n, replace=false)

08/03/2010 01:13 PM - mrkn (Kenta Murata)

Status:	Feedback	
Priority:	Normal	
Assignee:	mrkn (Kenta Murata)	
Target version:		

Description

Array#sample does not support sampling with replacement directly, so we must write codes like the following to obtain samples with replacement.

```
samples_with_replacement = n.times.map { source.sample }
```

If Array#sample has the argument for switching with/without replacement, we can write it as follow.

```
samples_with_replacement = source.sample(n, true)
```

The patch was attached. Please consider to merge.

Related issues:

Related to Ruby - Feature #3649: Array#sample, Array#shuffle, Array#shuffle! ...	**Closed**	**08/03/2010**
Related to Ruby - Feature #4247: New features for Array#sample, Array#choice	**Rejected**	

History

#1 - 08/03/2010 01:45 PM - mrkn (Kenta Murata)

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On 2010/08/03, at 13:13, Kenta Murata wrote:

> Feature #3647: Array#sample(n, replace=false)
> http://redmine.ruby-lang.org/issues/show/3647
>
> □□□: Kenta Murata
> □□□□□: Open, □□□: Normal
> □□□□: core, Target version: 1.9.x
>
> Array#sample does not support sampling with replacement directly, so we must write codes like the following to obtain samples with replacement.
>
> samples_with_replacement = n.times.map { source.sample }
>
> If Array#sample has the argument for switching with/without replacement, we can write it as follow.
>
> samples_with_replacement = source.sample(n, true)

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Kenta Murata
OpenPGP FP = 1D69 ADDE 081C 9CC2 2E54 98C1 CEFE 8AFB 6081 B062

□□□□□□□!!
□Ruby □□□□□□□ http://www.amazon.co.jp/dp/4798119881/mrkn-22

E-mail: mrkn@mrkn.jp
twitter: http://twitter.com/mrkn/
blog: http://d.hatena.ne.jp/mrkn/

#2 - 08/03/2010 04:53 PM - mrkn (Kenta Murata)

- File array_sample_with_replace_hash.patch added

replace □□□□□□□□□□□□□□□□□□□□□□□□□□□□□ patch □□□□□□□□
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#3 - 08/03/2010 06:25 PM - mrkn (Kenta Murata)

- File array_sample_shuffle.patch added

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http://www.atdot.net/sp/raw/0dgk6l

Array#sample □□□□□□□□□□□□□□□□□□□□□□□□□□□
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#4 - 08/03/2010 08:27 PM - mrkn (Kenta Murata)

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#5 - 12/10/2010 11:40 PM - tarui (Masaya Tarui)

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#6 - 12/11/2010 08:56 AM - matz (Yukihiro Matsumoto)

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In message "Re: [ruby-dev:42743] [Ruby 1.9-Feature#3647] Array#sample(n, replace=false)"
on Fri, 10 Dec 2010 23:40:21 +0900, Masaya Tarui redmine@ruby-lang.org writes:

> Array#sample□□□□□□□□□□□□□□□□□□
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#7 - 12/11/2010 11:05 PM - tarui (Masaya Tarui)

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2010□12□11□8:55 Yukihiro Matsumoto matz@ruby-lang.org:

> [illegible] [illegible]
>
> In message "Re: [ruby-dev:42743] [Ruby 1.9-Feature#3647] Array#sample(n, replace=false)"
> on Fri, 10 Dec 2010 23:40:21 +0900, Masaya Tarui redmine@ruby-lang.org writes:
>
>> Array#sample[illegible]
>> [illegible]
>
> [illegible]

[illegible]
[illegible]

>>> replace [illegible] patch [illegible]
>>> [illegible]Array#sample [illegible]
>>> [illegible]
>>
>> [illegible]
>>
>> [illegible]([illegible]?)[illegible]
>> [illegible]
>
> [illegible]
> [illegible]

[illegible]
[illegible]

`[1,2,3,4].sample   #=>1[illegible]`
`[1,2,3,4].sample(3)  #=>[illegible]`

[illegible]

`[1,2,3,4].sample(3,true)  #=>[illegible]`
`[1,2,3,4].sample(3,false)  #=>[illegible]`

[illegible]

[illegible]

--
[illegible](Masaya TARUI)
No Tool,No Life.

#8 - 12/11/2010 11:38 PM - matz (Yukihiro Matsumoto)

[illegible] [illegible]

In message "Re: [ruby-dev:42751] Re: [Ruby 1.9-Feature#3647] Array#sample(n, replace=false)"
on Sat, 11 Dec 2010 23:04:11 +0900, Masaya TARUI tarui@prx.jp writes:

> [illegible]
> [illegible]

[illegible]

> [illegible]
> [illegible]
>
> `[1,2,3,4].sample   #=>1[illegible]`
> `[1,2,3,4].sample(3)  #=>[illegible]`
>
> [illegible]
>
> `[1,2,3,4].sample(3,true)  #=>[illegible]`
> `[1,2,3,4].sample(3,false)  #=>[illegible]`
>
> [illegible]

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#9 - 12/19/2010 11:22 PM - mame (Yusuke Endoh)

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2010□12□11□23:38 Yukihiro Matsumoto matz@ruby-lang.org:

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>
> In message "Re: [ruby-dev:42751] Re: [Ruby 1.9-Feature#3647] Array#sample(n, replace=false)"
> ? ?on Sat, 11 Dec 2010 23:04:11 +0900, Masaya TARUI tarui@prx.jp writes:
>
>> □□□□□□□□□□□□□□□□□□□□□□□□□□
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`(1..n).map { ary.sample }`

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`ary.sample(replace: true)`

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□□ Array#sample □□□ ary[rand(ary.size)] □□□□□□□
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>> [1,2,3,4].sample ?#=>1□□□□□□□□□□□
>> [1,2,3,4].sample(3) #=>□□□□□
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>> ```
>> [1,2,3,4].sample(3,true) #=>□□□□□
>> [1,2,3,4].sample(3,false) #=>□□□□□
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□□□□□□□ sample(□□□□□□□: true) □□□□□□□□□
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```
ary = [1, 2, 3]
p ary.sample(replace: true) #=> 1
p ary #=> [2, 3]
```

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duplication: true □□□□□□□□□□ruby-core □□□□□□□
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Yusuke Endoh mame@tsg.ne.jp

#10 - 12/20/2010 11:09 PM - akr (Akira Tanaka)

2010□12□19□23:22 Yusuke ENDOH mame@tsg.ne.jp:

> □□□□□□□ sample(□□□□□□□: true) □□□□□□□□□□
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>
> ```
> ary = [1, 2, 3]
> p ary.sample(replace: true) #=> 1
> p ary #=> [2, 3]
> ```
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unique: false □□□□□□□□□

(uniq □□)

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[□□ □][□□□ □□□][Tanaka Akira]

#11 - 03/31/2012 10:17 AM - mame (Yusuke Endoh)

- Description updated

- Status changed from Open to Feedback

- Assignee set to mrkn (Kenta Murata)

mrkn □□□

matz □□

--
Yusuke Endoh mame@tsg.ne.jp

#12 - 10/25/2012 06:03 PM - yhara (Yutaka HARA)

- Target version changed from 2.0.0 to 2.6

#13 - 12/25/2017 06:14 PM - naruse (Yui NARUSE)

- Target version deleted (2.6)

#14 - 03/10/2020 04:58 AM - nobu (Nobuyoshi Nakada)

- Description updated

https://github.com/ruby/ruby/pull/2955
The option name is replace for now.

#15 - 03/10/2020 10:18 AM - sawa (Tsuyoshi Sawada)

Array#repeated_combination, Array#repeated_permutation □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ Array#repeated_sample □□ Array#replaced_sample □□□□□□□□□□□□□□

#16 - 03/11/2020 02:09 AM - nobu (Nobuyoshi Nakada)

https://github.com/ruby/ruby/pull/2956

Files

array_sample_with_replace.patch	3.64 KB	08/03/2010	mrkn (Kenta Murata)
array_sample_with_replace_hash.patch	4.35 KB	08/03/2010	mrkn (Kenta Murata)
array_sample_shuffle.patch	9.62 KB	08/03/2010	mrkn (Kenta Murata)