

Ruby master - Misc #16436

hash missing #last method, make it not so consistent (it has #first)

12/19/2019 04:21 PM - zw963 (Wei Zheng)

Status:	Open
Priority:	Normal
Assignee:	
Description	
<pre>(pry):main(0)> h = {x:1, y:2, z:3} { :x => 1, :y => 2, :z => 3 } (pry):main(0)> h.first [:x, 1] (pry):main(0)> h.first.first :x (pry):main(0)> h.first.last 1 last method not exist. (pry):main(0)> h.last Exception: NoMethodError: undefined method `last' for {:x=>1, :y=>2, :z=>3}:Hash We have to use #to_a to make last working. (pry):main(0)> h.to_a.last [:z, 3] (pry):main(0)> h.to_a.last.first :z (pry):main(0)> h.to_a.last.last 3</pre>	

History

#1 - 12/19/2019 04:27 PM - zverok (Victor Shepelev)

Hash doesn't have #first either :)

```
Hash.instance_method(:first)
# => #<UnboundMethod: Hash(Enumerable)#first(*)>
#           ^^^^^^^^^^^
```

The first method existence is just because of hash being a Enumerable, not because "first pair(s) of hash" seen as having some frequently used meaning.

(As a side note, Ruby probably could've had BidirectionalEnumerable for collections which can be enumerated both directions without side-effects; this one would be a good place to have #last method.)

#2 - 12/19/2019 04:37 PM - sawa (Tsuyoshi Sawada)

What is this issue? Is it just a note to everyone, or are you claiming this to be a bug, or is it a feature request?

#3 - 12/20/2019 12:37 AM - shevegen (Robert A. Heiler)

sawa wrote:

What is this issue? Is it just a note to everyone, or are you claiming this to be a bug, or is it a feature request?

I think it could only possibly be a feature request since it is not a bug. But you are quite right that it is difficult to infer from the issue description alone.

To the topic itself: I can see some points, in particular with hashes being ordered, where you could use `.first` and `.last` similar as how could be done to `Array`. I once wondered whether we should also have `.second`, `.third` and so forth, but one problem I had with that is that this becomes less and less likely to use; for example, if you have a large array of array, how often would you use `.eight` (or `[7]`) for that matter? Probably not that often. I do however have found `.second` and `.third` in use now and then.

Of course we can use `[]` instead anyway, but the code layout was sometimes strange. Such as in:

```
first_element = array[0]
last_element  = array[-1]
second_element = array[1]
```

versus

```
first_element = array.first
last_element  = array.last
second_element = array[1] # <- this one looks a bit weird if used with .first and .last
```

However had, I think I have not created an issue request. I assume there may have been reasons why we do not have `.second` or similar by default.

Note that the name `BidirectionalEnumerable` is quite weird too. This is how we may end up with things such as `HashWithIndifferentAccess`. That's an even stranger name ... ;)

Sorry for digressing. May have to see when `zw963` can reply and clarify.

#4 - 12/20/2019 03:18 AM - zw963 (Wei Zheng)

sawa (Tsuyoshi Sawada) wrote:

What is this issue? Is it just a note to everyone, or are you claiming this to be a bug, or is it a feature request?

Sorry, this issue not a bug, i knew `Hash#first` come from `Enumerable`, the reason i issue it is: i love ruby language, use it days and days, when encountering some inconsistencies things, i expect to give some feedback, and what i thought.

So, for this issue, the question is:

why `Array` include `Enumerable` module, and implement `Array#first` `Array#last` method, if we should do same things for `Hash`? make this language more elegant?

#5 - 12/29/2019 03:44 AM - zw963 (Wei Zheng)

- Subject changed from hash missing `#last` method, make it not so consistent (it has `first`) to hash missing `#last` method, make it not so consistent (it has `#first`)