Ruby - Feature #12612

Switch Range#=== to use cover? instead of include?

07/22/2016 12:54 PM - zverok (Victor Shepelev)

Status:	Rejected	
Priority:	Normal	
Assignee:		
Target version:		
Description		
may lead to fasc	inating inefficiencies, when working with strings or othe	ng all the values and comparing them to the checked value. It er similar classes (for example, IP class for wior of numerical ranges (which is kinda special case, I
	2.5 # true - though (13).to_a.include? === 'foo' # false - because ('a''z').t	
	y used in case and grep, and there is no option to replanange the behavior?	ce it manually with cover? there, maybe it would be
To be honest, I	could imagine no real cases when include? is preferable	e for identity check.
Related issues		
Related to Ruby -	Feature #12996: Optimize Range#===	Closed
	y - Feature #14575: Switch Range#=== to use cover? instead	0 Closed

History

#1 - 09/24/2016 08:57 AM - zverok (Victor Shepelev)

Did anybody saw this?..

#2 - 11/25/2016 08:51 AM - matz (Yukihiro Matsumoto)

- Status changed from Open to Rejected

I see no real-world use-case for Range#=== with strings. Besides that, using cover? behavior for string ranges would introduce incompatibility.

Matz.

#3 - 11/25/2016 09:11 AM - zverok (Victor Shepelev)

I encountered the problem in production code, it was not strings, but specialized IPAddress class, to filter "if IP is in range" -- it was SUDDENLY 0.4 sec on each request to server spent just to (IPAddress.new(from)..IPAddress.new(to)).to_a in "innocently" looking:

case ip
when admin_ip_range
...

Another real cases:

- ranges of Dates/Times/DateTimes
- Measure units (like https://github.com/joshwlewis/unitwise)
- Any other specialized enumerable AND comparable value class

Yes, proposed behavior is incompatible with current, but I am not sure it is a bad thing:

```
(Date.parse('2016-05-01')..Date.today) === DateTime.parse('2016-06-01 12:30')
# => false
(Date.parse('2016-05-01')..Date.today).cover?(DateTime.parse('2016-06-01 12:30'))
# => true
# Which is more logical? What you'll intuitively expect here:
case DateTime.parse('2016-06-01 12:30')
when Date.parse('2016-05-01')..Date.today
# looks like we SHOULD be here, but...
```

#4 - 12/20/2016 03:34 AM - shyouhei (Shyouhei Urabe)

- Related to Feature #12996: Optimize Range#=== added

#5 - 05/17/2018 07:07 AM - matz (Yukihiro Matsumoto)

- Related to Feature #14575: Switch Range#=== to use cover? instead of include? added

#6 - 05/17/2018 07:07 AM - matz (Yukihiro Matsumoto)

- Related to deleted (Feature #14575: Switch Range#=== to use cover? instead of include?)

#7 - 05/17/2018 07:08 AM - matz (Yukihiro Matsumoto)

- Has duplicate Feature #14575: Switch Range#=== to use cover? instead of include? added