Numeric#positive? and Numeric#negative?

05/13/2015 06:37 PM - rafaelfranca (Rafael França)

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

Description
We just added `Integer#positive?` and `Integer#negative?` to Active Support.

I was wondering if we could get that implemented in Ruby itself and searched if it was already requested before to Ruby code.

I found that it was requested in [#5513](#5513), but rejected. Since they were requested with more methods, and I don't know Japanese enough to see if there are technical reasons, I thought to request just these two methods again.

The implementation would be something like:

```ruby
def positive?
  self > 0
end

def negative?
  self < 0
end
```

And one of its use case is filtering, like:

```ruby
bunch_of_numbers.select(&:positive?)
```

If this feature is accepted I can work in a patch.

Related [#5513](#5513)

Associated revisions
Revision 932e916b - 05/17/2015 06:01 AM - nobu (Nobuyoshi Nakada)
numeric.c: Numeric#positive? and Numeric#negative?

- numeric.c (num_positive_p, num_negative_p): add methods Numeric#positive? and Numeric#negative?. [ruby-core:69173] [Feature #11151]
- numeric.c (flo_positive_p, flo_negative_p): specialized functions for Float.
- complex.c (Init_Complex): Complex do not have positive? and negative? methods

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@50522 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 50522 - 05/17/2015 06:01 AM - nobu (Nobuyoshi Nakada)
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Revision b4e5bf8 - 05/19/2015 04:10 AM - nobu (Nobuyoshi Nakada)
numeric.c: Bignum 0 is not positive
numeric.c (num_positive_p): should false on Bignum 0. http://twitter.com/rafaelfranca/status/600509783427391488 [ruby-core:69173] [Feature #11151]
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Revision 50538 - 05/19/2015 04:10 AM - nobu (Nobuyoshi Nakada)
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Revision 59b089bd - 05/19/2015 04:13 AM - nobu (Nobuyoshi Nakada)
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History

#1 - 05/13/2015 07:07 PM - usa (Usaku NAKAMURA)
In #5113, matz said
  • We can use > 0 and < 0 for the purpose.
  • Complex is Numeric, but we cannot define positive? and negative? for it.

The latter is just appropriate comment, I think.

#2 - 05/13/2015 09:37 PM - rafaelfranca (Rafael França)
Right. Thank you for the explanation.
So maybe just to Fixnum and Float?

#3 - 05/13/2015 10:19 PM - phluid61 (Matthew Kerwin)
On 14/05/2015, rafaelmfranca@gmail.com rafaelmfranca@gmail.com wrote:
  Issue #11151 has been updated by Rafael França.
  Right. Thank you for the explanation.
  So maybe just to Fixnum and Float?

You probably mean Integer and Float. And possibly also Rational.

That, or add it to Numeric and have it raise in Complex.

--
Matthew Kerwin
http://matthew.kerwin.net.au/

#4 - 05/14/2015 01:20 AM - rafaelfranca (Rafael França)

You probably mean Integer and Float. And possibly also Rational.

Yeah.

For what I could see, probably we'll just need to publish two functions that we are already using internally.
https://github.com/ruby/ruby/blob/d77f4934f8ed19d8a97d4bc748c92e9b8883133/numeric.c#L166 and
https://github.com/ruby/ruby/blob/d77f4934f8ed19d8a97d4bc748c92e9b8883133/numeric.c#L182
Realistic use-case is written. Accepted. But it should recognize complex numbers (should raise exception).

Matz.

Applied in changeset r50522.

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