

## Ruby master - Feature #11151

### Numeric#positive? and Numeric#negative?

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

<b>Status:</b>	Closed
<b>Priority:</b>	Normal
<b>Assignee:</b>	matz (Yukihiro Matsumoto)
<b>Target version:</b>	
<b>Description</b>	
We just added <a href="#">Interger#positive? and Interger#negative? to Active Support</a> .	
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 <a href="#">#5513</a> , 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:	
<pre>def positive?   self &gt; 0 end  def negative?   self &lt; 0 end</pre>	
And one of its use case is filtering, like:	
<pre>bunch_of_numbers.select(&amp;:positive?)</pre>	
If this feature is accepted I can work in a patch.	
Related <a href="#">#5513</a>	

#### 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 b4e5bff8 - 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]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@50538 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

**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)**

numeric.c: return true

- numeric.c (num\_positive\_p): return true instead of Fixnum 0. [ruby-core:69173] [Feature #11151]

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**Revision 50539 - 05/19/2015 04:13 AM - nobu (Nobuyoshi Nakada)**

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## History

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### #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](mailto: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/d77f4934f8ede19d8a97d4bc748c92e9b8883133/numeric.c#L166> and

<https://github.com/ruby/ruby/blob/d77f4934f8ede19d8a97d4bc748c92e9b8883133/numeric.c#L182>

**#5 - 05/14/2015 07:42 AM - matz (Yukihiro Matsumoto)**

Realistic use-case is written. Accepted.  
But it should recognize complex numbers (should raise exception).

Matz.

**#6 - 05/17/2015 06:02 AM - nobu (Nobuyoshi Nakada)**

- *Status changed from Open to Closed*

Applied in changeset r50522.

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