Ruby master - Bug #11736

Float(arg) not consistent with documentation

11/24/2015 08:10 PM - bwheeler96 (Brian Wheeler)

Status: Closed
Priority: Normal
Assignee: hsbt (Hiroshi SHIBATA)
Target version: ruby -v:
ruby 2.1.5p273
Backport: 2.1: UNKNOWN, 2.2: DONE, 2.3: DONE

Description

Float(arg) → float

Returns arg converted to a float. Numeric types are converted directly, the rest are converted using arg.to_f. Converting nil generates a TypeError.

Strings are NOT converted using arg.to_f

'123_INVALID'.to_f
# => 123.0

Float('123_INVALID')
# => ArgumentError

This could be fixed by changing object.c like so:

- return DBL2NUM(rb_str_to_dbl(val, TRUE));
+ return DBL2NUM(rb_str_to_dbl(val, FALSE));

But it appears that this is desired behavior as there are many specs to ensure this strict validity checking. Please update the documentation to reflect this.

Thanks,
Brian

Related issues:

Related to Ruby master - Bug #9574: Inconsistent behavior between Kernel#Floa... Closed

Associated revisions

Revision 3827c23a - 10/14/2016 09:27 AM - hsbt (Hiroshi SHIBATA)

- object.c: Improve documentation for Integer conversion. [ruby-core:71661][Bug #11736][ci skip]

Revision 56421 - 10/14/2016 09:27 AM - hsbt (Hiroshi SHIBATA)

- object.c: Improve documentation for Integer conversion. [ruby-core:71661][Bug #11736][ci skip]

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Revision 56421 - 10/14/2016 09:27 AM - hsbt (Hiroshi SHIBATA)

- object.c: Improve documentation for Integer conversion. [ruby-core:71661][Bug #11736][ci skip]
Revision 331fea27 - 10/27/2016 07:27 AM - usa (Usaku NAKAMURA)
merge revision(s) 56421,56422: [Backport #11736]

* object.c: Improve documentation for Integer conversion.
  [ruby-core:71661][Bug #11736][ci skip]

* object.c: Improve documentation for Float conversion.

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby_2_2@56501 b2dd03c8-39d4-4d8f-98f8-823fe69b080e

Revision 56501 - 10/27/2016 07:27 AM - usa (Usaku NAKAMURA)
merge revision(s) 56421,56422: [Backport #11736]

* object.c: Improve documentation for Integer conversion.
  [ruby-core:71661][Bug #11736][ci skip]

* object.c: Improve documentation for Float conversion.

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby_2_2@56501 b2dd03c8-39d4-4d8f-98f8-823fe69b080e

Revision 627eec87 - 11/11/2016 04:06 PM - nagachika (Tomoyuki Chikanaga)
merge revision(s) 56421,56422: [Backport #11736]

* object.c: Improve documentation for Integer conversion.
  [ruby-core:71661][Bug #11736][ci skip]

* object.c: Improve documentation for Float conversion.

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby_2_3@56722 b2dd03c8-39d4-4d8f-98f8-823fe69b080e

Revision 56722 - 11/11/2016 04:06 PM - nagachika (Tomoyuki Chikanaga)
merge revision(s) 56421,56422: [Backport #11736]

* object.c: Improve documentation for Integer conversion.
  [ruby-core:71661][Bug #11736][ci skip]

* object.c: Improve documentation for Float conversion.

History

#1 - 12/07/2015 07:43 AM - ko1 (Koichi Sasada)
- Description updated
- Assignee set to zzak (Zachary Scott)

Document is wrong.
Zack, could you fix it?

#2 - 02/09/2016 05:52 PM - dpulliam (Dylan Pulliam)
- File 0001-Improve-documentation-on-Float-Arg.patch added
- ruby -v set to ruby 2.1.5p273

I have prepared a patch for this. Let me know what you think.

#3 - 10/14/2016 09:27 AM - hsbt (Hirosi SHIBATA)
- Status changed from Open to Closed

Applied in changeset r56421.

- object.c: Improve documentation for Integer conversion. [ruby-core:71661][Bug #11736][ci skip]

#4 - 10/14/2016 09:29 AM - hsbt (Hirosi SHIBATA)
- Backport changed from 2.0.0: UNKNOWN, 2.1: UNKNOWN, 2.2: UNKNOWN to 2.1: UNKNOWN, 2.2: REQUIRED, 2.3: REQUIRED
- Assignee changed from zzak (Zachary Scott) to hsbt (Hirosi SHIBATA)

#5 - 10/27/2016 07:27 AM - usa (Usaku NAKAMURA)
- Backport changed from 2.1: UNKNOWN, 2.2: REQUIRED, 2.3: REQUIRED to 2.1: UNKNOWN, 2.2: DONE, 2.3: REQUIRED

ruby_2_2 r56501 merged revision(s) 56421,56422.

#6 - 11/11/2016 04:06 PM - nagachika (Tomoyuki Chikanaga)
- Backport changed from 2.1: UNKNOWN, 2.2: DONE, 2.3: REQUIRED to 2.1: UNKNOWN, 2.2: DONE, 2.3: DONE

ruby_2_3 r56722 merged revision(s) 56421,56422.

#7 - 07/22/2019 03:58 AM - jeremyevans0 (Jeremy Evans)
- Related to Bug #9574: Inconsistent behavior between Kernel#Float and to_f added

**Files**

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<tr>
<td>0001-Improve-documentation-on-Float-Arg.patch</td>
<td>1.25 KB</td>
<td>02/09/2016</td>
<td>dpulliam (Dylan Pulliam)</td>
</tr>
</tbody>
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