

Ruby trunk - Bug #5536

String#start_with? and end_with? ignore arguments convertible to a String [PATCH]

11/01/2011 09:43 PM - Eregon (Benoit Daloze)

Status: Closed	
Priority: Normal	
Assignee: matz (Yukihiro Matsumoto)	
Target version: 2.0.0	
ruby -v: ruby 2.0.0dev (2011-11-01 trunk 33605) [x86_64-linux]	Backport:
Description	
Hi,	
Currently, String#start_with? and String#end_with? ignore arguments not convertible to String.	
I believe it should instead raise an error, as it may lead to false expectations from the user and it is inconsistent with the rest of the API.	
For example, if I try to use start_with? with a RegExp (which would be a nice feature BTW): "str".start_with? /s/ # => false I believe it should be: "str".start_with? /s/ # => TypeError: can't convert Regexp into String	
If you prefer the current behavior, could you explain me why?	
P.S.: There is no test for String#{start,end}_with? in test/, should I add one or is it enough to change RubySpec (which I'll do when this gets accepted)?	
Related issues:	
Is duplicate of Ruby trunk - Feature #3388: regexp support for start_with? an...	Feedback

Associated revisions

Revision 38b8afcf - 04/02/2012 01:34 AM - nobu (Nobuyoshi Nakada)

- string.c (rb_str_start_with, rb_str_end_with): raise an error if an argument is not convertible to a String. [ruby-core:40623][Bug #5536]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@35213 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 35213 - 04/02/2012 01:34 AM - nobu (Nobuyoshi Nakada)

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History

#1 - 11/01/2011 10:23 PM - nobu (Nobuyoshi Nakada)

- Status changed from Open to Assigned
- Assignee set to matz (Yukihiro Matsumoto)

(11/11/01 21:43), Benoit Daloz wrote:

Currently, String#start_with? and String#end_with? ignore arguments not convertible to String.

I believe it should instead raise an error, as it may lead to false expectations from the user and it is inconsistent with the rest of the API.

Indeed.

If you prefer the current behavior, could you explain me why?

It hasn't changed from the origin, and I'm curious too.

P.S.: There is no test for String#{start,end}_with? in test/, should I add one or is it enough to change RSpec (which I'll do when this gets accepted)?

See test/ruby/test_m17n_comb.rb.

#2 - 11/01/2011 11:01 PM - Eregon (Benoit Daloz)

Issue [#5536](#) has been updated by Nobuyoshi Nakada.

(11/11/01 21:43), Benoit Daloz wrote:

P.S.: There is no test for String#{start,end}_with? in test/, should I add one or is it enough to change RSpec (which I'll do when this gets accepted)?

See test/ruby/test_m17n_comb.rb.

Sorry, I missed it, I only looked at test/ruby/test_string.rb. But I'm not sure the error tests belong there, as test_m17n_comb.rb mainly focus on Encoding interactions.

Should I add in test_string.rb or test_m17n_comb.rb?

Here is the diff for test_m17n_comb.rb:

```
diff --git a/test/ruby/test_m17n_comb.rb b/test/ruby/test_m17n_comb.rb
index 79016af..9c6d5f3 100644
--- a/test/ruby/test_m17n_comb.rb
+++ b/test/ruby/test_m17n_comb.rb
@@ -1551,6 +1551,7 @@ class TestM17NComb < Test::Unit::TestCase
 end
 assert_equal(false, encall(s1, :end_with?, s2), desc)
}
```

- assert_raise(TypeError) { "str".end_with? :not_convertible_to_string } end

```
def test_str_start_with?
@@ -1572,6 +1573,7 @@ class TestM17NComb < Test::Unit::TestCase
 end
 assert_equal(false, encall(s1, :start_with?, s2), desc)
}
```

- assert_raise(TypeError) { "str".start_with? :not_convertible_to_string } end

def test_str_ord

#3 - 11/01/2011 11:05 PM - nobu (Nobuyoshi Nakada)

Should I add in test_string.rb or test_m17n_comb.rb?

test_string.rb, I think.

#4 - 11/02/2011 12:03 AM - Eregon (Benoit Daloze)

- File 0002-test-ruby-test_string.rb-add-test_start_with-and-tes.patch added

Tests attached.

#5 - 03/25/2012 09:11 PM - Eregon (Benoit Daloze)

- File 0001-string.c-rb_str_start_with-rb_str_end_with-raise-an-.patch added

- File 0002-test-ruby-test_string.rb-add-test_start_with-and-tes.patch added

I have uploaded a new set of patches to better respect the style in test/ruby/test_string.rb (use S(str) for strings).

Could we merge this?

#6 - 04/02/2012 10:34 AM - nobu (Nobuyoshi Nakada)

- Status changed from Assigned to Closed

- % Done changed from 0 to 100

This issue was solved with changeset r35213.

Benoit, thank you for reporting this issue.

Your contribution to Ruby is greatly appreciated.

May Ruby be with you.

-
- string.c (rb_str_start_with, rb_str_end_with): raise an error if an argument is not convertible to a String. [ruby-core:40623][Bug #5536]

#7 - 01/31/2013 12:30 AM - prijutme4ty (Ilya Vorontsov)

=begin

Can you please explain, why not just make ({"str".start_with(/s/)}) behave as ({"str".match(/^s/)}) ?

=end

#8 - 01/31/2013 01:19 AM - Eregon (Benoit Daloze)

prijutme4ty (Ilya Vorontsov) wrote:

=begin

Can you please explain, why not just make ({"str".start_with(/s/)}) behave as ({"str".match(/^s/)}) ?

=end

See [#3388](#) for this feature (this issue is closed).

It is the approach I initially took, but building and compiling a Regexp is expensive, and so it should be cached or another way be used. For #start_with?, there is a C-level API for matching only at start, but there is no corresponding API for #end_with?.

Files

0001-string.c-rb_str_start_with-rb_str_end_with-raise-an-.patch	1.17 KB	11/01/2011	Eregon (Benoit Daloze)
0002-test-ruby-test_string.rb-add-test_start_with-and-tes.patch	1.58 KB	11/02/2011	Eregon (Benoit Daloze)
0001-string.c-rb_str_start_with-rb_str_end_with-raise-an-.patch	1.17 KB	03/25/2012	Eregon (Benoit Daloze)
0002-test-ruby-test_string.rb-add-test_start_with-and-tes.patch	1.63 KB	03/25/2012	Eregon (Benoit Daloze)