

Ruby - Bug #9521

[Doc] Fix error in Time.parse documentation (in lib/time)

02/15/2014 05:05 PM - stomar (Marcus Stollsteimer)

Status:	Closed	Backport: 2.0.0: WONTFIX, 2.1: DONE	
Priority:	Normal		
Assignee:	zzak (zzak _)		
Target version:			
ruby -v:	ruby 2.1.0p0 (2013-12-25 revision 44422) [i686-linux]		
Description The docs state that the examples are for GMT as local time zone while in fact they are for JST. The patch fixes this by using EST (and saying so), like the rest of the examples for lib/time.			
Related issues: Copied to Ruby - Bug #9682: [Doc] Improve Time.parse documentation (in lib/time)			
		Closed	02/15/2014

Associated revisions

Revision 2be728c45f38aba8473e4c2905709cc1d559aeb2 - 03/16/2014 12:34 PM - zzak (zzak _)

- lib/time.rb: [DOC] Fix timezone in example of Time.parse [Bug #9521]
Based on patch by @stomar [ci skip]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@45349 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 2be728c4 - 03/16/2014 12:34 PM - zzak (zzak _)

- lib/time.rb: [DOC] Fix timezone in example of Time.parse [Bug #9521]
Based on patch by @stomar [ci skip]

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Revision 252afcd9f1731af234d3f5e7545d41752229c4c4 - 05/06/2014 08:18 AM - akr (Akira Tanaka)

- lib/time.rb (Time.parse): [DOC] Fix an example in the documentation.
Reported by Marcus Stollsteimer.
[ruby-core:60778] [Bug #9521] and [ruby-core:61718] [Bug #9682]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@45837 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 252afcd9 - 05/06/2014 08:18 AM - akr (Akira Tanaka)

- lib/time.rb (Time.parse): [DOC] Fix an example in the documentation.
Reported by Marcus Stollsteimer.
[ruby-core:60778] [Bug #9521] and [ruby-core:61718] [Bug #9682]

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Revision 447e1c4d199181bc02935e00589c3cc2668a5e1e - 08/20/2014 04:41 PM - nagachika (Tomoyuki Chikanaga)

merge revision(s) r45349,r45837,r45838: [Backport #9521] [Backport #9682]

```
* lib/time.rb: [DOC] Fix timezone in example of Time.parse [Bug #9521]
Based on patch by @stomar
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```
* lib/time.rb (Time.parse): [DOC] Fix an example in the documentation
to use EST.
```

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby_2_1@47228 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

merge revision(s) r45349,r45837,r45838: [Backport #9521] [Backport #9682]

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History

#1 - 02/18/2014 09:12 PM - zzak (zzak _)

Thank you for the patch!

#2 - 02/18/2014 09:12 PM - zzak (zzak _)

- Status changed from Open to Assigned

#3 - 03/16/2014 12:34 PM - zzak (zzak _)

- Status changed from Assigned to Closed

- % Done changed from 0 to 100

Applied in changeset r45349.

- lib/time.rb: [DOC] Fix timezone in example of Time.parse [Bug [#9521](#)]
Based on patch by [@stomar \(Marcus Stollsteimer\)](#) [ci skip]

#4 - 03/16/2014 01:00 PM - stomar (Marcus Stollsteimer)

@zak Just to consider: I used EST because

- the docs for Time state: *All of these examples were done using the EST timezone which is GMT-5.*
- AFAIK it's not easily possible to set JST on the local machine (via environment variable) so that these examples can be reproduced, since it's not part of RFC 822. Setting to EST works fine (even in Germany):

```
2.1.1 :012 > ENV["TZ"] = "EST"
2.1.1 :013 > Time.parse("2014-01-01")
=> 2014-01-01 00:00:00 -0500
2.1.1 :014 > ENV["TZ"] = "JST"
2.1.1 :015 > Time.parse("2014-01-01")
=> 2014-01-01 00:00:00 +0000
```

#5 - 03/16/2014 09:00 PM - zzak (zzak _)

- Status changed from Closed to Feedback

You raise a good point, I was only trying to avoid extra work :)

To be honest, these examples are confusing.. I'm not sure what the point of passing tz is, for example:

```
now = Time.parse("Thu Nov 29 14:33:20 GMT 2001")
```

Is clearly set to GMT, right?

```
Time.parse("16:30", now) #=> 2001-11-29 16:30:00 +0900
```

Yet in this example 16:30 in GMT would be 1:30 the next day in JST..

#6 - 03/17/2014 06:52 PM - naruse (Yui NARUSE)

Marcus Stollsteimer wrote:

@zak Just to consider: I used EST because

- the docs for Time state: *All of these examples were done using the EST timezone which is GMT-5.*
- AFAIK it's not easily possible to set JST on the local machine (via environment variable) so that these examples can be reproduced, since it's not part of RFC 822. Setting to EST works fine (even in Germany):

```
2.1.1 :012 > ENV["TZ"] = "EST"
2.1.1 :013 > Time.parse("2014-01-01")
=> 2014-01-01 00:00:00 -0500
2.1.1 :014 > ENV["TZ"] = "JST"
2.1.1 :015 > Time.parse("2014-01-01")
=> 2014-01-01 00:00:00 +0000
```

TZ environment variable must be used like

```
irb(main):001:0> require "time"
=> true
irb(main):002:0> ENV["TZ"] = "EST+5"
=> "EST+5"
irb(main):003:0> Time.parse("2014-01-01")
=> 2014-01-01 00:00:00 -0500
irb(main):004:0> ENV["TZ"] = "JST-9"
=> "JST-9"
irb(main):005:0> Time.parse("2014-01-01")
=> 2014-01-01 00:00:00 +0900
```

see also http://pubs.opengroup.org/onlinepubs/009695399/basedefs/xbd_chap08.html

#7 - 03/17/2014 07:55 PM - stomar (Marcus Stollsteimer)

I agree, the behaviour of Time.parse *is* confusing, at least when different time zones are involved.

It can be understood if you consider these points:

1. Time.parse assumes local time for all time specifications, unless explicitly stated otherwise:

```
require "time"
ENV["TZ"] = "EST"
now = Time.parse("Thu Nov 29 14:33:20 GMT 2001")
#=> 2001-11-29 09:33:20 -0500 (correct)
Time.parse("16:30", now) #=> 2001-11-29 16:30:00 -0500 (EST is assumed,
Time.parse("16:30 CST", now) #=> 2001-11-29 17:30:00 -0500 unless explicitly set)
```

2. Also note that Time.parse returns the time in the local time zone (so the initially "set" TZ cannot be inferred from "now")

3. Time.parse uses the date component of "now" so to speak "as is", without regarding its TZ:

```
now = Time.parse("Thu Nov 29 3:20:55 GMT 2001") #=> 2001-11-28 22:20:55 -0500
Time.parse("16:30", now) #=> 2001-11-28 16:30:00 -0500 (!)

# the same point in time, but expressed in GMT
now = Time.new(2001, 11, 29, 3, 20, 55, "+00:00") #=> 2001-11-29 03:20:55 +0000
Time.parse("16:30", now) #=> 2001-11-29 16:30:00 -0500 (!!!)
```

So... figuring this out felt pretty much like puzzle solving...

I rather wouldn't try using different time zones with Time.parse :)

#8 - 03/17/2014 08:05 PM - stomar (Marcus Stollsteimer)

[@zzak \(zzak\)](#) I suggest adding the return value of Time.parse("Thu ...") to make the examples a little more clear:

```
now = Time.parse("Thu Nov 29 14:33:20 GMT 2001") #=> 2001-11-29 09:33:20 -0500
```

(Or correspondingly for JST.)

[@naruse \(Yui NARUSE\)](#) Thanks for explaining, I didn't know that.

#9 - 03/27/2014 01:42 PM - stomar (Marcus Stollsteimer)

- Copied to Bug #9682: [Doc] Improve Time.parse documentation (in lib/time) added

#10 - 05/06/2014 08:18 AM - akr (Akira Tanaka)

- Status changed from Feedback to Closed

Applied in changeset r45837.

- lib/time.rb (Time.parse): [DOC] Fix an example in the documentation.
Reported by Marcus Stollsteimer.
[\[ruby-core:60778\]](#) [Bug #9521] and [\[ruby-core:61718\]](#) [Bug #9682]

#11 - 05/06/2014 08:36 AM - akr (Akira Tanaka)

It seems the original document of that part written by gsinclair used GMT.
But I mistakenly modified to use JST.

I agree that most examples uses EST.
This convention is inherited from time.c.
time.c has a sentence:
"All of these examples were done using the EST timezone which is GMT-5."

Also, I didn't considered well the behavior of Time.parse when multiple time zones are involved.

So I modified the example to use EST,
not only the result but also for "now" at r45838.

#12 - 07/02/2014 07:30 AM - usa (Usaku NAKAMURA)

- Backport changed from 1.9.3: UNKNOWN, 2.0.0: UNKNOWN, 2.1: UNKNOWN to 2.0.0: WONTFIX, 2.1: UNKNOWN

#13 - 08/08/2014 05:09 AM - nagachika (Tomoyuki Chikanaga)

- Backport changed from 2.0.0: WONTFIX, 2.1: UNKNOWN to 2.0.0: WONTFIX, 2.1: REQUIRED

#14 - 08/20/2014 04:42 PM - nagachika (Tomoyuki Chikanaga)

- Backport changed from 2.0.0: WONTFIX, 2.1: REQUIRED to 2.0.0: WONTFIX, 2.1: DONE

Backported into ruby_2_1 branch at r47228.

Files

doc_lib_time.patch	1.13 KB	02/15/2014	stomar (Marcus Stollsteimer)
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