

## Ruby trunk - Bug #13307

### Changing scheme from http to https for the URI does not change the port number

03/13/2017 12:27 AM - martinosis (Martin Chabot)

<b>Status:</b>	Feedback	
<b>Priority:</b>	Normal	
<b>Assignee:</b>		
<b>Target version:</b>		
<b>ruby -v:</b>	ruby 2.4.0p0 (2016-12-24 revision 57164) [x86_64-darwin16]	<b>Backport:</b> 2.2: UNKNOWN, 2.3: UNKNOWN, 2.4: UNKNOWN
<b>Description</b>		
If we change the scheme of an URI, it does not change the port number. The URI object become inconsistent. If we print the full URI it does not return the same port number as when we print the port.		
See code bellow:		
<pre>[1] pry(main)&gt; require 'uri' =&gt; true [2] pry(main)&gt; url = "http:devalphaserver.com/xxx/12" =&gt; "http:devalphaserver.com/xxx/12" [3] pry(main)&gt; uri = URI.parse(url) =&gt; #&lt;URI::HTTP http:devalphaserver.com/xxx/12&gt; [4] pry(main)&gt; uri.scheme = "https" =&gt; "https" [5] pry(main)&gt; uri.port =&gt; 80 [6] pry(main)&gt; uri.to_s =&gt; "https:devalphaserver.com/xxx/12" # port 443</pre>		

#### History

##### #1 - 03/13/2017 03:57 AM - nobu (Nobuyoshi Nakada)

Changing scheme sounds nonsense to me.

##### #2 - 03/13/2017 04:17 AM - shyouhei (Shyouhei Urabe)

Nobuyoshi Nakada wrote:

Changing scheme sounds nonsense to me.

Me too but given the port number is inferred from the scheme, "changing scheme should update that part" sounds reasonable to me.

##### #3 - 03/13/2017 06:07 AM - duerst (Martin Dürst)

I agree with Shyouhei that the current behavior is inconsistent. When changing the scheme, either the object keeps the default port (which is 443 for https), or it keeps port 80. If it keeps port 80, then it has to print that out when the scheme is https, because port 80 isn't the default for https.

BTW, the examples should all have '/' after http(s):, but that doesn't affect the result.

##### #4 - 03/13/2017 03:25 PM - shyouhei (Shyouhei Urabe)

We looked at this issue in today's developer meeting.

The problem is, an URI created using `URI.parse("http://...")` is an `URI::HTTP` instance, not `HTTPS`. The class is determined from the URI's scheme. Given that, why is scheme modifiable? It seems rather troublesome. We might want to prohibit that. Martin, does that annoy you? Do you have use case when changing scheme is useful?

##### #5 - 03/14/2017 10:34 AM - duerst (Martin Dürst)

- Status changed from Open to Feedback