

## Ruby master - Bug #14241

### Time.strptime() doesn't support the directive "%W".

12/26/2017 10:10 AM - stsuboi (Sougo TSUBOI)

<b>Status:</b> Assigned	
<b>Priority:</b> Normal	
<b>Assignee:</b> akr (Akira Tanaka)	
<b>Target version:</b>	
<b>ruby -v:</b> ruby 2.3.3p222 (2016-11-21 revision 56859) [x64-mingw32]	<b>Backport:</b> 2.3: UNKNOWN, 2.4: UNKNOWN, 2.5: UNKNOWN
<b>Description</b> <p>According to reference manual, Time.strptime() accepts the directive "%W" in a format string, but it seems not to be worked. On the other hand, Date.strptime() accepts "%W" correctly.</p> <pre>C:&gt;ruby -v ruby 2.3.3p222 (2016-11-21 revision 56859) [x64-mingw32]  C:&gt;irb irb(main):001:0&gt; require "time" =&gt; true irb(main):003:0&gt; Time.strptime("2017 1", "%Y %W").strftime("%F") =&gt; "2017-01-01" irb(main):004:0&gt; Date.strptime("2017 1", "%Y %W").strftime("%F") =&gt; "2017-01-02"</pre>	
<b>Related issues:</b> <p>Related to Ruby master - Bug #9836: Bad Implementation of Time.strptime</p>	
<b>Feedback</b>	

### History

#### #1 - 12/26/2017 10:13 AM - stsuboi (Sougo TSUBOI)

- Description updated

#### #2 - 12/26/2017 10:14 AM - stsuboi (Sougo TSUBOI)

- Description updated

#### #3 - 12/26/2017 10:16 AM - stsuboi (Sougo TSUBOI)

- Description updated

#### #4 - 12/26/2017 10:17 AM - stsuboi (Sougo TSUBOI)

- Subject changed from Time.strptime() doesn't support the directive "%W" in . to Time.strptime() doesn't support the directive "%W".

#### #5 - 12/26/2017 07:37 PM - Anonymous

To add to the report, the Time.strptime doesn't support any of the following directives

```
%w %W %j %u
```

basically, it doesn't support anything outputted from the Date.\_strptime that is not in the following hash keys ([https://github.com/ruby/ruby/blob/ruby\\_2\\_5/lib/time.rb#L448](https://github.com/ruby/ruby/blob/ruby_2_5/lib/time.rb#L448))

```
:year , :mon, :mday, :hour, :min, :sec, :sec_fraction, :zone
```

and the previous format directives produce various different keys like

```
:wnum1, :cweekday, :wday, :yday
```

examples:

```
Date.strptime("2017 1 3", "%Y %W %u").strftime("%F")
=> "2017-01-04"
Time.strptime("2017 1 3", "%Y %W %u").strftime("%F")
=> "2017-01-01"
```

```
Date.strptime("2017 20", "%Y %j").strftime("%F")
=> "2017-01-20"
Time.strptime("2017 20", "%Y %j").strftime("%F")
=> "2017-01-01"
```

**#6 - 06/21/2019 05:48 PM - jeremyevans0 (Jeremy Evans)**

- Assignee set to akr (Akira Tanaka)
- Status changed from Open to Assigned
- File time-strptime-wnum.patch added

I agree this is a bug that should be fixed. Attached is a patch that implements support for %U/%W/%u/%w in Time#strptime.

**#7 - 08/11/2019 07:32 PM - jeremyevans0 (Jeremy Evans)**

- Related to Bug #9836: Bad Implementation of Time.strptime added

**#8 - 08/11/2019 07:32 PM - jeremyevans0 (Jeremy Evans)**

- File time-strptime-wnum-cw-14241.patch added

Here's an updated patch that handles %V, %g, and %G as well.

**Files**

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time-strptime-wnum.patch	1.89 KB	06/21/2019	jeremyevans0 (Jeremy Evans)
time-strptime-wnum-cw-14241.patch	3.2 KB	08/11/2019	jeremyevans0 (Jeremy Evans)