

## Ruby master - Bug #12106

### Behavior of double splatting of hashes with non symbol key is different according to splatted hash position

02/24/2016 04:29 AM - pabloh (Pablo Herrero)

<b>Status:</b>	Closed	
<b>Priority:</b>	Normal	
<b>Assignee:</b>	nobu (Nobuyoshi Nakada)	
<b>Target version:</b>		
<b>ruby -v:</b>	ruby 2.3.0p0 (2015-12-25 revision 53290) [x86_64-linux]	<b>Backport:</b> 2.0.0: UNKNOWN, 2.1: UNKNOWN, 2.2: UNKNOWN, 2.3: UNKNOWN
<b>Description</b>		
<p>When doing double splatting with hash with non symbols keys you get different behaviors according to the position of the hash been splatted:</p>		
<pre>{a: 3, **{b: 1}, **{'b' =&gt; 1}} # Works fine {a: 3, **{1 =&gt; 1}, **{b: 1}} # Works fine {3 =&gt; 3, **{b: 1}, **{'b' =&gt; 1}} # Works fine {**{}, a: 3, **{b: 1}, **{1 =&gt; 1}} # Works fine  {**{b: 1}, a: 3, **{1 =&gt; 1}} # TypeError: wrong argument type Fixnum (expected Symbol) {**{'b' =&gt; 1}, **{c: 4}} # TypeError: wrong argument type Fixnum (expected Symbol) {**{c: 4}, **{'b' =&gt; 1}} # TypeError: wrong argument type Fixnum (expected Symbol) {**{c: 4}, a: 3, **{'b' =&gt; 1}} # TypeError: wrong argument type Fixnum (expected Symbol)</pre>		
<p>Same thing happens when you double splat inside a message send:</p>		
<pre>puts(a: 3, **{b: 1}, **{'b' =&gt; 1}) # Works fine puts(a: 3, **{1 =&gt; 1}, **{b: 1}) # Works fine puts(3 =&gt; 3, **{b: 1}, **{'b' =&gt; 1}) # Works fine puts(**{}, a: 3, **{b: 1}, **{1 =&gt; 1}) # Works fine  puts(**{b: 1}, a: 3, **{1 =&gt; 1}) # TypeError: wrong argument type Fixnum (expected Symbol) puts(**{'b' =&gt; 1}, **{c: 4}) # TypeError: wrong argument type Fixnum (expected Symbol) puts(**{c: 4}, **{'b' =&gt; 1}) # TypeError: wrong argument type Fixnum (expected Symbol) puts(**{c: 4}, a: 3, **{'b' =&gt; 1}) # TypeError: wrong argument type Fixnum (expected Symbol)</pre>		
<p>What's basically going on is this: you can double splat hashes with no symbol keys all you want, only if the first value of the hash is a regular key (symbol or not) and not a splatted hash, or also a double splatted empty hash.</p>		
<p>It feels strange that building the same hash in different orders yields so different behaviors. Anyhow, I personally feel it should be a bug if you cannot splat a hash with no symbol keys into another one, whichever are the remaining values of the hash.</p>		

#### History

##### #1 - 02/24/2016 04:33 AM - pabloh (Pablo Herrero)

Small correction: for the 2nd, 3rd and 4th examples on each code block the error actually is "TypeError: wrong argument type String (expected Symbol)"

##### #2 - 03/16/2016 09:41 AM - shyouhei (Shyouhei Urabe)

- Status changed from Open to Assigned
- Assignee set to nobu (Nobuyoshi Nakada)

##### #3 - 10/21/2019 04:56 PM - jeremyevans0 (Jeremy Evans)

- Status changed from Assigned to Closed

With the changes in [#14183](#), TypeError is no longer raised in any of the examples, as non-Symbol keys can be used inside a hash that is double splatted.