# Ruby - Bug #18486

# Enumerable#group\_by ordering appears to have changed and doesn't match docs.

01/13/2022 04:05 PM - masukomi@masukomi.org (kay rhodes)

Status:	Closed		
Priority:	Normal		
Assignee:			
Target version:			
ruby -v:	3.0.2	Backport:	2.6: UNKNOWN, 2.7: UNKNOWN, 3.0: UNKNOWN, 3.1: UNKNOWN
Description			
The documentation for Enumerable#group_by suggests the following:			
(16).group_by {  i  i%3 } #=> {0=>[3, 6], 1=>[1, 4], 2=>[2, 5]}			
it actually produces this (same values different order). Tested in 2.6.3 and 3.0.2			
(16).group_by {  i  i%3 } #=> {1=>[1, 4], 2=>[2, 5], 0=>[3, 6]}			
as hash table ordering is something people depend on these days I wonder if the reordering of the keys may be more than just a minor documentation bug.			
I noticed this in 2.6.3. Assuming the docs matched reality when written this implies we've been living with this for a while. I don't know how long before that this actually changed.			

### History

# #1 - 01/13/2022 04:31 PM - jeremyevans0 (Jeremy Evans)

This is only a minor documentation issue. I assume the documentation is a left over from pre-1.9, when hashes were unordered. I'll fix it.

## #2 - 01/13/2022 04:33 PM - jeremyevans0 (Jeremy Evans)

- Status changed from Open to Closed

This was already fixed in 1e10099e091

#### #3 - 01/13/2022 04:34 PM - zverok (Victor Shepelev)

I think it is docs bug. group\_by emerged in Ruby 1.8.7, but my RVM can't install it :( The earliest I could check was 1.9.3, and it already has order of keys 1, 2, 0.

I think it is a natural reason of keys being in the order they are inserted: the first value for grouping is 1 (1 % 3), so that's why it appears first in the result.

With the preservation of Hash keys order introduced at 1.9, I think that's when the behavior changed :))) In Ruby 1.8.6, imitation of group\_by with inject does the initially documented order:

(1..6).to\_a.inject({}) { |r, i| (r[i % 3] ||= []) << i; r }
# => {0=>[3, 6], 1=>[1, 4], 2=>[2, 5]}

## #4 - 01/13/2022 07:12 PM - matsuda (Akira Matsuda)

group\_by emerged in Ruby 1.8.7, but my RVM can't install it :( The earliest I could check was 1.9.3, and it already has order of keys 1, 2, 0.

off-topic: all-ruby is your friend :) https://github.com/akr/all-ruby