

## Ruby master - Feature #15559

### Logical XOR (^^) operator

01/23/2019 05:17 PM - baweaver (Brandon Weaver)

<b>Status:</b>	Open	
<b>Priority:</b>	Normal	
<b>Assignee:</b>		
<b>Target version:</b>		
<b>Description</b>		
Currently we have bitwise & and logical &&, and bitwise   and logical   . Would it be possible to have logical ^^ in addition to the bitwise ^ for XOR?		

#### History

##### #1 - 01/24/2019 02:18 AM - mrkn (Kenta Murata)

You can write `expr1 ^^ expr2` as `!expr1 != !expr2` in the current Ruby.  
If both `expr1` and `expr2` are boolean, you can write `expr1 != expr2`.

I think ^^ can be useful for the case that both `expr1` and `expr2` are not boolean.  
Have you ever write such conditional expressions?

##### #2 - 01/24/2019 02:20 AM - mrkn (Kenta Murata)

I think != is easier to understand than ^^.

##### #3 - 01/24/2019 02:26 AM - mame (Yusuke Endoh)

Would it be possible to have logical ^ in addition to the bitwise ^ for XOR?

I think it is possible, but we need a good reason to do so. Do you have any use case?

##### #4 - 01/25/2019 04:14 AM - sawa (Tsuyoshi Sawada)

Unlike && and ||, which involve short-circuit evaluation, and hence are keywords rather than methods, the proposed ^^ will not involve short-circuit evaluation. Which is the intended proposal: as a keyword, or as a method?