

## Ruby - Misc #15654

### Documentation for Complex is wrong or misleading

03/11/2019 08:43 AM - sawa (Tsuyoshi Sawada)

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|---|--------|--|
| <b>Status:</b>  | Open   |  |
| <b>Priority:</b>  | Normal |  |
| <b>Assignee:</b>  |        |  |
| <b>Description</b>  |        |  |
| The documentation for Complex <a href="https://ruby-doc.org/core-2.6/Complex.html">https://ruby-doc.org/core-2.6/Complex.html</a> says or implies that a complex can be created by literal like <code>2+1i</code> , but that is actually calling the method <code>+</code> on receiver <code>2</code> with argument <code>1i</code> . The description should be changed to make it clear that <code>2+ 1i</code> is not a literal but is applying a method. |        |  |

### History

#### #1 - 03/11/2019 09:18 AM - Hanmac (Hans Mackowiak)

[@nobu \(Nobuyoshi Nakada\)](#): i don't know if that would be better, but can the parser be changed to support that stuff like `"2+1i"` would create the Complex object directly?

#### #2 - 03/11/2019 09:25 AM - sawa (Tsuyoshi Sawada)

Actually, currently, there is no literal for complex numbers whose real part is non-zero. I think we need a literal to cover such cases. If something along nobu's suggestion works, that would be preferable.

#### #3 - 03/11/2019 09:32 AM - Hanmac (Hans Mackowiak)

sawa (Tsuyoshi Sawada) wrote:

Actually, currently, there is no literal for complex numbers whose real part is non-zero. I think we need a literal to cover such cases. If something along nobu's suggestion works, that would be preferable.

it wasn't a suggestion from him, i just wanted to ping him so he can see the message

#### #4 - 03/11/2019 11:55 AM - nobu (Nobuyoshi Nakada)

There would be a chance to optimize such expressions, but it is not a single literal syntactically, and constant folding is disabled in Ruby for its dynamic nature.

New literal syntax will be needed for an (impurely) imaginary number literal, but I doubt that we really need it.