Ruby - Misc #19304

Kernel vs Object documentation

01/03/2023 02:00 PM - zverok (Victor Shepelev)

| Status: | Assigned | |
|---|--|---|
| Priority: | Normal | |
| Assignee: | matz (Yukihiro Matsumoto) | |
| Description | | |
| The restating of | the problems raised in <u>#19300</u> , from scrat | ich. |
| | ner a topic of community significance ar probably "let's change RDoc in this or that | nd would be happy if it is possible to discuss on dev-meeting , even if the way". |
| So, the problem | statement: | |
| inside every 2. Since the b fact, devoid <u>reattached</u> 3. The RDoc h #then, #clas Object) | y object; and public ones (like #class or #f eginning of times, docs provided an illusic of its own definitions, just includes Kerne <u>definition</u> of public methods if they are definack was working in C code only, so after as <u>are now documented</u> as belonging to K | te ones, that pretend to be global (like puts), but actually available from irozen?) that are present in every object including Kernel. on that the second type of the methods belongs to Object class, which is, ir el. This was handled by special RDoc hack (which, basically, forcefully fined in Kernel, to Object) introduction of kernel.rb the illusion started to crumble: methods like #tap, Kernel (breaking the tradition of public methods being documented in adds to friction both for newcomers and curious investigators of the |
| Additionally, I be | lieve: | |
| writing artic 2. But, conside | les, and discussing with colleagues) ering everything, I agree with what @Erec | ul (saying from a practical experience with explaining Ruby while mentoring gon (Benoit Daloze) and @nobu (Nobuyoshi Nakada) say in <u>#19300</u> : ey really belong to is not the optimal way to document things! |
| So, the options I | see (save for "do nothing and let things s | ort themselves somehow"): |
| to experime 2. Just remove they are dif 3. Continue to Pro: Relative Object. 4. Adjust RDo how to treat | ent on this scale, so just listing it here for c e the RDoc hack; all methods would belor ferent. Pro: Easy to do. Contra: The Kerr maintain the hack in RDoc and extend it yely easy to do, will maintain structure ma c to a) be able to separately list public an | ng to Kernel, and maybe some introductory free-form text will instruct that hel docs would be super-confusing. to kernel.rb (so methods like #clone and #frozen? would be still in Object). my people used to. Contra: This is still a lie, methods belong to Kernel, no and private methods in two different lists, and add intro for Kernel explaining dence to reality? Contra: Not sure how easy it is to change RDoc this way |
| | the most reasonable (if (1) is 100% impos | |
| | | |
| History | | |
| | I:35 PM - austin (Austin Ziegler) | |
| | | ithub.io/rdoc/RDoc/Markup.html#class-RDoc::Markup-label-Sections) in the It would absolutely need to be used consistently in both C and kernel.rb method |

Is the option 3 like this? https://github.com/ruby/rdoc/pull/961

#3 - 01/04/2023 08:21 AM - sawa (Tsuyoshi Sawada)

Can you expand on why option 2 would be super-confusing? I think that option is the best.

#4 - 01/04/2023 12:14 PM - zverok (Victor Shepelev)

@sawa

Can you expand on why option 2 would be super-confusing? I think that option is the best.

Because those are two different categories of methods (as this and the previous ticket discuss in detail), and having them in one mixed list makes it hard to distinguish "global methods" (aka Kernel's private) from "public methods that every object has".

From every Ruby documentation user, it doesn't matter much that they are defined in the same module, but it *does* matter much that methods like puts or require aren't homogenous with methods like class, frozen? or clone.

That, I believe, was the reason for the initial RDoc decision to pretend public methods are belonging to Object.

#5 - 01/05/2023 12:49 AM - sawa (Tsuyoshi Sawada)

@zverok (Victor Shepelev) The Kernel page is entirely broken anyway from its first sentence:

The Kernel module is included by class Object, so its methods are available in every Ruby object.

the latter half of which is not true since the introduction of BasicObject, and what it claims to be "Public Instance Methods" are not public. It is confusing in the current state.

It just needs to be entirely fixed. Fixing this and describing public and private methods correctly would not be confusing.

#6 - 01/05/2023 07:34 AM - zverok (Victor Shepelev)

Fixing this and describing public and private methods correctly would not be confusing.

This is option (4) of my initial list, I believe.

Option (2) — the easiest and the least desirable of them — is just to dump everything into Kernel without trying to separate the two kinds.

(If you meant only fixing each individual method docs, without separating methods in two lists, it will still be bad. The list of methods that class/object has is a significant part of the docs navigation. Having puts and class in the same homogenous list is bad.)

#7 - 01/17/2023 07:58 PM - matheusrich (Matheus Richard)

Thanks for voicing that, <u>@zverok (Victor Shepelev)</u>! I always found this confusing (i.e., some methods being defined in Kernel, not in Object), and I'd love to see the docs reflect that in some form. (1) feels like the right thing to do, so what are the roadblocks? Backward compatibility? After that, I think (4) is the way to go.

#8 - 02/10/2023 01:28 AM - mame (Yusuke Endoh)

Discussed at the dev meeting. In conclusion, Option 4 looks good.

- Stop that "hack" of RDoc; all methods defined in Kernel should be listed in the Kernel documentation.
- rdoc should clearly distinguish between module functions and others. (This is not limited to Kernel)
- It is okay to state, at the beginning of the Kernel documentation, that Kernel's module functions are a global function in effect.

The current RDoc does not appear to handle module functions correctly. For example, Math.acos is listed as "Public Class Methods", which would not be appropriate. If this is fixed, the problem of this ticket should be also fixed automatically, we thought.

For the record, matz stated that he does not feel the need to distinguish between global functions (e.g., fork and exit) and others (e.g., is_a? and kind_of?), either in the implementation or in the documentation. He is fine with all methods being presented in one list. But he was not opposed to the above handling.

#9 - 04/03/2024 03:50 AM - hsbt (Hiroshi SHIBATA)

- Status changed from Open to Assigned