Ruby master - Bug #16669
Rails Action Text unit tests fail since b9007b6c548f91e88fd3f2ffa23de740431fa969

03/03/2020 10:30 AM - yahonda (Yasuo Honda)

Status: Closed
Priority: Normal
Assignee: ko1 (Koichi Sasada)
Target version: ruby -v:

```
ruby 2.8.0dev (2020-02-22T00:58:59Z
master b9007b6c54) [x86_64-darwin19]
```

Backport: 2.5: UNKNOWN, 2.6: UNKNOWN, 2.7: UNKNOWN

Description

This issue has been reported at Rails repository https://github.com/rails/rails/issues/38613
It always reproduces since https://github.com/ruby/ruby/commit/b9007b6c548f91e88fd3f2ffa23de740431fa969
but I do not know how to create minimum test cases without Rails repository yet.

- Steps to reproduce
  1. Install ruby 2.8.0dev b9007b6c54 or newer
  2. Install required OS packages to run Rails refer https://guides.rubyonrails.org/development_dependencies_install.html#install-additional-tools-and-services
  3. git clone https://github.com/rails/rails.git
  4. cd rails/actiontext
  5. bundle install
  6. bin/test "test/template/form_helper_test.rb" "test/unit/model_test.rb" -n "/^:(?:ActionText::ModelTest#(?:test_embed_extraction|test_embed_extraction_only_extracts_file_attachments)).*/$/"

- Expected result:
  All of tests should pass as they pass with f2286925f08406bc857f7b03ad6779a5d61443ae or older version of ruby 2.8.0dev, Ruby 2.7.0 or older versions of Ruby.

- Actual behavior:
  These tests always fail as below.

```
% cd rails/actiontext
% bin/test "test/template/form_helper_test.rb" "test/unit/model_test.rb" -n "/^:(?:ActionText::ModelTest#(?:test_embed_extraction|test_embed_extraction_only_extracts_file_attachments)).*/$/
```

```
/Users/yahonda/.rbenv/versions/2.8.0-dev/lib/ruby/gems/2.8.0/gems/tzinfo-1.2.6/lib/tzinfo/ruby_core_support.rb:163: warning: Object#taint is deprecated and will be removed in Ruby 3.2
/Users/yahonda/.rbenv/versions/2.8.0-dev/lib/ruby/gems/2.8.0/gems/tzinfo-1.2.6/lib/tzinfo/ruby_core_support.rb:163: warning: Object#tainted? is deprecated and will be removed in Ruby 3.2
/Users/yahonda/.rbenv/versions/2.8.0-dev/lib/ruby/gems/2.8.0/gems/tzinfo-1.2.6/lib/tzinfo/ruby_core_support.rb:163: warning: Object#taint is deprecated and will be removed in Ruby 3.2
/Users/yahonda/.rbenv/versions/2.8.0-dev/lib/ruby/gems/2.8.0/gems/tzinfo-1.2.6/lib/tzinfo/ruby_core_support.rb:163: warning: Object#tainted? is deprecated and will be removed in Ruby 3.2
```

Run options: --seed 25661

```
# Running:

E

Error:
ActionText::ModelTest#test_embed_extraction_only_extracts_file_attachments: NoMethodError: undefined method 'runnables' for ActiveJob::Base::Class
```

05/10/2020
Error:
ActionText::ModelTest#test_embed_extraction:
NoMethodError: undefined method `runnables' for ActiveStorage::BaseJob::Class

## Associated revisions

**Revision 2943ff9d - 03/10/2020 05:50 PM - ko1 (Koichi Sasada)**

fix bug on method cache invalidation.

To invalidate cached method entry, existing method entry (ment) is marked as invalidated and replace with copied ment. However, complemented method entry (method entries in Module) should not be set to Module's m_tbl.

[Bug #16669]

**Revision 8119bcbf - 04/22/2020 05:21 PM - ko1 (Koichi Sasada)**

rb_method_entry() returns valid me.

search_method() can return invalid method, but vm_defined() checks it as valid method entry. This is why defined?(foo) if foo is undef'ed. To solve this problem, check invalidation and return NULL.

[Bug #16669]

https://twitter.com/kamipo/status/1252881930103558144

Tests will be merged by nobu soon.

**Revision da5bd004 - 04/23/2020 12:43 AM - nobu (Nobuyoshi Nakada)**

Test for [Bug #16669]

**Revision 74c8aaef - 04/23/2020 01:24 AM - nobu (Nobuyoshi Nakada)**

Just call search_method_protect [Bug #16669]

### History

**#1 - 03/03/2020 10:45 AM - kamipo (Ryuta Kamizono)**

Action Text has much dependencies, and the failure is hard to understand which line is the cause of failure since that result show no stacktrace. Action View failure is more easy to understand which line is the cause of failure.

https://buildkite.com/rails/rails/builds/67326#4ca28f29-d78c-4461-b1a4-367191a1cb7d/942-952
https://github.com/rails/rails/blob/6d0895a4894724e1a923a514daad8fb3c9ac2c28/actionview/lib/action_view/template.rb#L194

**#2 - 03/03/2020 11:07 AM - yahonda (Yasuo Honda)**

Thanks for the information. I was aware it reproduces with Action View also but unable to create some smaller steps to reproduce. Let me try to provide some smaller test cases with Action View.

**#3 - 03/03/2020 11:28 AM - mame (Yusuke Endoh)**

- Assignee set to ko1 (Koichi Sasada)
- Status changed from Open to Assigned

Great report.

05/10/2020
fix bug on method cache invalidation.

To invalidate cached method entry, existing method entry (ment) is marked as invalidated and replace with copied ment. However, complemented method entry (method entries in Module) should not be set to Module's m_tbl.

[Bug #16669]

#5 - 04/07/2020 01:16 AM - kamipo (Ryuta Kamizono)

https://bugs.ruby-lang.org/projects/ruby-master/repository/git/revisions/2943ff9d4441485a18773aa745bab7f477767d9e2 fixes some of failures in Rails CI, but "undefined method 'root' for Rails:Module" still exist I explained above.
https://buildkite.com/rails/rails/builds/68064#d28cc26f-cdc1-4eb7-8795-41c9a2dc0f04/6-31
https://github.com/rails/rails/blob/834f5414c3b879a3a50c5cac128c9d9b007fa569/actionview/lib/action_view/template.rb#L194

#6 - 04/10/2020 10:40 PM - k0kubun (Takashi Kokubun)

- Status changed from Closed to Assigned

#7 - 04/11/2020 11:48 AM - yahonda (Yasuo Honda)

Thanks for providing a fix, which addresses the failure originally reported at Rails Action Text. https://github.com/rails/rails/issues/38613

Unfortunately, As kamipo suggested there are "undefined method 'root' for Rails:Module" at Rails Action View module.

#8 - 04/22/2020 05:22 PM - ko1 (Koichi Sasada)

- Status changed from Assigned to Closed

Applied in changeset giti8119bcbfc04772fe4012b5ed396a68f02e312316.

rb_method_entry() returns valid me.

search_method() can return invalid method, but vm_defined() checks it as valid method entry. This is why defined?(foo) if foo is undef'ed.

To solve this problem, check invalidation and return NULL.

[Bug #16669]
https://twitter.com/kamipo/status/1252881930103558144

Tests will be merged by nobu soon.

#9 - 04/22/2020 10:41 PM - yahonda (Yasuo Honda)

I have confirmed ruby 2.8.0dev (2020-04-22T17:21:38Z master 8119bcbfc0) [x86_64-darwin19] addresses Rails Action View unit test failures/errors.

Thank you.