

Ruby - Feature #10771

An easy way to get the source location of a constant

01/22/2015 05:50 AM - sawa (Tsuyoshi Sawada)

Status:	Closed	
Priority:	Normal	
Assignee:	matz (Yukihiro Matsumoto)	
Target version:		
Description		
For constants, it is difficult to get the source location where it was (last) defined. I request either of the following to be implemented:		
<ul style="list-style-type: none">Tracepoint emits a signal when a constant is defined.Implement a Constant class (similar to Method class) and a constant method (similar to method method) that behave as follows:		
<pre>foo1.rb 1 module Foo 2 Bar = :bar 3 end 4 Foo.constant(:Bar) #=> #<Constant: Foo#Bar> 5 Foo.constant(:Bar).source_location #=> ["foo1.rb", 2]</pre>		
<ul style="list-style-type: none">Implement Module#constant_source_location		
<pre>foo2.rb 1 module Foo 2 Bar = :bar 3 end 4 Foo.constant_source_location(:Bar) #=> ["foo2.rb", 2]</pre>		

Associated revisions

Revision 93843830198ba436e2ea21a60a11758d47cf521b - 06/22/2019 04:46 PM - nobu (Nobuyoshi Nakada)

Module#constant_source_location [Feature #10771]

Revision ef524c13d96c645fd00c17267a553275adb0b106 - 06/22/2019 04:46 PM - nobu (Nobuyoshi Nakada)

NEWS: Module#constant_source_location

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Revision 93843830 - 06/22/2019 04:46 PM - nobu (Nobuyoshi Nakada)

Module#constant_source_location [Feature #10771]

Revision ef524c13 - 06/22/2019 04:46 PM - nobu (Nobuyoshi Nakada)

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History

#1 - 01/27/2015 11:04 AM - ko1 (Koichi Sasada)

- Assignee set to matz (Yukihiro Matsumoto)

Matz issue.

#2 - 06/25/2017 09:08 AM - jphelps (Jeremy Phelps)

I've got a patch ready for this, but I have no idea how to submit it. There are serious contradictions in this page:

<https://bugs.ruby-lang.org/projects/ruby/wiki/HowToContribute>

It says that the changes should be against "the trunk of Ruby", and that "only Ruby 2.4 may accept new features." But the trunk on GitHub is Ruby 2.5.

It says that the patch should be a unified diff, but it also says different changes should not be mixed in a single commit. But diff files don't have commits; only pull requests and whole repos do. But it says that you only accept PRs for "tiny fixes", and only if they don't require discussion.

#3 - 06/25/2017 10:08 AM - normalperson (Eric Wong)

jeremy.phelps@instacart.com wrote:

I've got a patch ready for this, but I have no idea how to submit it. There are serious contradictions in this page:

<https://bugs.ruby-lang.org/projects/ruby/wiki/HowToContribute>

It says that the changes should be against "the trunk of Ruby", and that "only Ruby 2.4 may accept new features." But the trunk on GitHub is Ruby 2.5.

Make the change against trunk, any mentions of specific version numbers is probably outdated. Maybe you have permissions to edit that page? (I can't stand

inputs in web browsers and
reply to redmine via email)

It says that the patch should be a unified diff, but it also says different changes should not be mixed in a single commit. But diff files don't have commits; only pull requests and whole repos do. But it says that you only accept PRs for "tiny fixes", and only if they don't require discussion.

The output of "git format-patch" is a superset of unified diff, you should use that to generate diffs if using git. "git am" can be used to apply that output and preserve authorship info and the commit message.

You can also publish your work to any publically accessible git repository tell us about how to pull it, here. The "git request-pull" command can generate the message text for you.

#4 - 06/26/2017 01:34 AM - jphelps (Jeremy Phelps)

- File `const_source_location.tar.gz` added

Ok, then here's my patch. I called the method "const_source_location" instead of "constant_source_location", because it uses a lot of the same code as "const_get".

I don't have access to edit the wiki page.

#5 - 06/26/2017 02:51 AM - normalperson (Eric Wong)

jeremy.phelps@instacart.com wrote:

Ok, then here's my patch. I called the method "const_source_location" instead of "constant_source_location", because it uses a lot of the same code as "const_get".

Thanks. The code looks fine.
I'd suggest `rb_ary_new_from_args` to avoid the temporary array (instead of `rb_ary_new4`) but we can fix it at commit time.

It's up to matz now to approve/deny the feature itself.

Thanks again

#6 - 06/26/2017 03:59 AM - duerst (Martin Dürst)

jphelps (Jeremy Phelps) wrote:

I've got a patch ready for this, but I have no idea how to submit it. There are serious contradictions in this page:

<https://bugs.ruby-lang.org/projects/ruby/wiki/HowToContribute>

I updated this page a bit, hopefully removing the contradictions. Please tell us if there still are some problems.

#7 - 11/28/2018 01:13 PM - shevegen (Robert A. Heiler)

janfri suggested this issue for the next upcoming developer meeting at December 2018 so I think it will be approved or rejected then.

I did not yet comment on it so I will comment on it briefly.

- I think the functionality would be nice to have; introspection is very useful, IMO.

Not sure how matz feels about the API suggested but the functionality may be ok?

#8 - 11/29/2018 12:26 AM - sawa (Tsuyoshi Sawada)

I am glad that this issue is going to be discussed in the next developer meeting, but now that we have a way to know not only the file name and the line number but also the column number/position as well for method definitions, I request that this be done for constants as well.

#9 - 12/12/2018 06:59 AM - matz (Yukihiro Matsumoto)

We picked `constant_source_location`. We will experiment with this method in 2.7 development.

Matz.

#10 - 06/22/2019 04:47 PM - nobu (Nobuyoshi Nakada)

- Status changed from Open to Closed

Applied in changeset [git|93843830198ba436e2ea21a60a11758d47cf521b](https://github.com/ruby/ruby/commit/93843830198ba436e2ea21a60a11758d47cf521b).

Module#`constant_source_location` [Feature [#10771](#)]

Files

<code>const_source_location.tar.gz</code>	1.96 KB	06/26/2017	jphelps (Jeremy Phelps)
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