

Ruby trunk - Feature #12042

A better interface that returns a list of local variables available where the exception is raised

02/01/2016 12:16 PM - yuki24 (Yuki Nishijima)

Status:	Feedback
Priority:	Normal
Assignee:	
Target version:	
Description	
<p>We've changed the behavior of <code>NameError#local_variables</code> as discussed on #11777, but I'm not actually satisfied by the change. This change has made it impossible to get a list of local variables available within a <code>NameError</code> scope. It would be nice, if we could add a new method that does what <code>NameError#local_variables</code> does right now, and change the <code>local_variables</code> method back to the previous behavior.</p> <p>I actually don't have a good name in mind, but please let me know if anyone has a good name for it.</p>	

History

#1 - 02/01/2016 12:30 PM - nobu (Nobuyoshi Nakada)

- Status changed from Open to Feedback

I'm uncertain about what you mean by "change".
Could you elaborate the behavior what you expect?

#2 - 02/02/2016 01:29 PM - yuki24 (Yuki Nishijima)

As you may know, in Ruby 2.2 and older, `#local_variables` returns a list of local variables available in the scope where the method is called, or raises an `NameError` if it's called from outside of the class:

```
class NameError
  def call_local_variables
    foo = bar = nil
    local_variables
  end
end

the_value = nil

begin
  doesnt_exist
rescue => e
  # Ruby 2.2 and older
  e.local_variables # => NoMethodError: private method `local_variables' called...
  e.call_local_variables # => [:foo, :bar]
end
```

We've changed it to behave like the following:

```
... # same setup

begin
  doesnt_exist
rescue => e
  # Ruby 2.3 (current)
  e.local_variables # => [:the_value]
  e.call_local_variables # => [:the_value]
end
```

And an example of what I would like to add/change would be something like:

```
... # same setup

begin
  doesnt_exist
rescue => e
  # Ruby 2.4
  e.local_variables # => NoMethodError: private method `local_variables' called...
```

```
e.call_local_variables # => [:foo, :bar]
e.something_new       # => [:the_value]
end
```

#3 - 02/03/2016 05:10 AM - nobu (Nobuyoshi Nakada)

Rename NameError#local_variables not to override Kernel#local_variables?

Do you have candidates for that name?