

Ruby master - Feature #2451

BasicObject.initialize with variable number of argument

12/07/2009 10:18 AM - marcandre (Marc-Andre Lafortune)

Status:	Closed
Priority:	Normal
Assignee:	matz (Yukihiro Matsumoto)
Target version:	1.9.2
Description	
<p>=begin</p> <p>If one wants to write a class easily extensible (for some kind of library, say), then there is no nice way to have the initialize method be extensible other than through monkeypatching.</p> <p>This could be made much more flexible if BasicObject.initialize accepted any number of arguments.</p> <p>Would there be a downside to have BasicObject.initialize accept many arguments?</p> <p>Here's a more detailed example:</p> <pre>class NiceClass def initialize(arg1, arg2) # do some stuff with arg1 and arg2 super # allow for included modules to initialize end end # Someone else: class NiceClass module CoolExtension def initialize(arg1, arg2) # do cool stuff super # allow for more extensions end end include CoolExtension end</pre> <p>This would not work unless BasicObject#initialize accepts any number of arguments. Currently, only super() -- i.e. passing none of the arguments -- can be called, so arg1 & arg2 must be copied to instance variables for included modules to access, or else monkeypatching becomes the only possibility.</p> <p>The patch is trivial:</p> <pre>diff --git a/object.c b/object.c index 10eb983..33cae20 100644 --- a/object.c +++ b/object.c @@ -2538,7 +2538,7 @@ Init_Object(void) #undef rb_intern #define rb_intern(str) rb_intern_const(str) • rb_define_private_method(rb_cBasicObject, "initialize", rb_obj_dummy, 0); • rb_define_private_method(rb_cBasicObject, "initialize", rb_obj_dummy, -1); rb_define_alloc_func(rb_cBasicObject, rb_class_allocate_instance); rb_define_method(rb_cBasicObject, "=", rb_obj_equal, 1); rb_define_method(rb_cBasicObject, "equal?", rb_obj_equal, 1);</pre> <p>Notes:</p> <ul style="list-style-type: none">• There is no documentation for BasicObject#initialize.• Ironically, the Ruby Draft Specification states that Object#initialize accepts any number of arguments! I'm glad I already have that team agree with me ;-)• No error is generated by make test-all	

- See also http://blog.rubybestpractices.com/posts/rklemme/018-Complete_Class.html where Robert Klemme recommends calling `super` from constructors but has to use `super()`, i.e. passing no arguments

Similarly, I also propose that `Object#initialize` accepts any number of arguments in Ruby 1.8.8

`=end`

Related issues:

Related to Ruby master - Bug #5542: Ruby 1.9.3-p0 changed arity on default in...

Rejected

11/02/2011

History

#1 - 12/19/2009 05:00 PM - matz (Yukihiro Matsumoto)

`=begin`

Hi,

In message "Re: [ruby-core:27080] [Feature #2451] `BasicObject.initialize` with variable number of argument" on Mon, 7 Dec 2009 10:18:36 +0900, Marc-Andre Lafortune redmine@ruby-lang.org writes:

[This could be made much more flexible if `BasicObject.initialize` accepted any number of arguments. Would there be a downside to have `BasicObject.initialize` accept many arguments?

I don't think so. Please check in the fix.

```
matz.
```

`=end`

#2 - 12/21/2009 08:07 AM - marcandre (Marc-Andre Lafortune)

- Status changed from *Open* to *Closed*

- % Done changed from 0 to 100

`=begin`

This issue was solved with changeset r26135.

Marc-Andre, thank you for reporting this issue.

Your contribution to Ruby is greatly appreciated.

May Ruby be with you.

`=end`