

Ruby master - Feature #12023

Allow ivars to be used as method arguments

01/26/2016 09:13 AM - mogest (Roger Nesbitt)

Status:	Open
Priority:	Normal
Assignee:	
Target version:	
Description	
<p>I've found myself writing a lot of code similar to the following, especially when writing service-style classes:</p> <pre>class ResizeImage def initialize(image, width:, height: width) @image = image @width = width @height = height end end</pre>	
<p>Some other languages allow class property assignment on the constructor, and I thought this might be a great addition for Ruby, as Ruby likes DRY and doesn't like boilerplate.</p> <pre>class ResizeImage def initialize(@image, @width:, @height: @width) end end</pre>	
<p>Please find attached a patch that implements ivars to be used as method arguments for lead, optional, post and kwarg arguments. The tests I've implemented should demo the feature if you'd like to see how it's used.</p> <p>This is my first patch to Ruby, so I'm looking forward to learning from any feedback you are able to give. I'm not super happy with how I've implemented kwarg argument rewriting in the VM; this could be done during compilation, but I wasn't sure about adding another ID* to iseq->body->param or if the performance hit from this code would be acceptable (it's only run if a ivar argument was detected.)</p> <p>I'll also note that this functionality is available to all methods, not just initialize. Although I can't see much of a use case for it on methods that aren't initialize, I also can't see the harm in allowing any method to use it.</p> <p>Thanks for your consideration!</p>	
Related issues:	
Is duplicate of Ruby master - Feature #5825: Sweet instance var assignment in...	Assigned
Has duplicate Ruby master - Feature #12578: Instance Variables Assigned In pa...	Rejected
Has duplicate Ruby master - Feature #12820: Shorter syntax for assigning a me...	Rejected

History

#1 - 01/27/2016 09:44 AM - nobu (Nobuyoshi Nakada)

- Is duplicate of Feature #5825: Sweet instance var assignment in the object initializer added

#2 - 01/27/2016 09:58 AM - nobu (Nobuyoshi Nakada)

- Description updated

With your patch, seems that def initialize(@foo, @bar = @foo) wouldn't work.

```
+ ID modified_acceptable_keywords[iseq->body->param.keyword->num];
```

Dynamic size array isn't allowed in C89.

#3 - 07/10/2016 12:59 PM - nobu (Nobuyoshi Nakada)

- Has duplicate Feature #12578: Instance Variables Assigned In parameters (ala Crystal?) added

#4 - 10/08/2016 02:38 AM - nobu (Nobuyoshi Nakada)

- Has duplicate Feature #12820: Shorter syntax for assigning a method argument to an instance variable added

Files

ruby-method-argument-ivars.diff	9.34 KB	01/26/2016	mogest (Roger Nesbitt)
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