Ruby master - Feature #12300
Allow Object#clone to take freeze: false keyword argument to not freeze the clone
04/19/2016 12:40 AM - jeremyevans0 (Jeremy Evans)

Status: Closed
Priority: Normal
Assignee:
Target version:

Description
This allows Object#clone to not freeze the resulting object, which fixes a long standing problem in ruby in that you cannot get an unfrozen copy of an object that includes a copy of the object's singleton class. Previously, clone always returned a frozen object, and dup did not copy the singleton class. This adds the ability to get an unfrozen clone of an object that includes a copy of the object's singleton class, allowing further modification.

Among other things, this allows the ability to create modified clones of objects that have singleton classes:

class A
  def clone(arg)
    obj = super(freeze: false)
    # modify obj based on arg
    obj.freeze
  end
end

I think this is a simpler and more flexible approach to the same problem that #12092 tries to solve.

Associated revisions
Revision 320ae01c - 08/01/2016 05:55 AM - shyouhei (Shyouhei Urabe)
Object#clone with freeze: false [Feature #12300]

* object.c (rb_obj_clone2): Allow Object#clone to take freeze: false keyword argument to not freeze the clone.
  [ruby-core:75017][Feature #12300]
  * test/ruby/test_object.rb (TestObject): test for it.

Revision 55786 - 08/01/2016 05:55 AM - shyouhei (Shyouhei Urabe)
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Revision e8219f74 - 08/03/2016 08:15 AM - nobu (Nobuyoshi Nakada)
object.c: restrict freeze option
  object.c (rb_obj_clone2): restrict freeze option to true other than false which only has the effect. [Feature #12300]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@55808 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 55808 - 08/03/2016 08:15 AM - nobu (Nobuyoshi Nakada)
object.c: restrict freeze option
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Revision 55808 - 08/03/2016 08:15 AM - nobu (Nobuyoshi Nakada)
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Revision 340805cf - 08/03/2016 08:20 AM - nobu (Nobuyoshi Nakada)
NEWS: Kernel#clone [ci skip]
  NEWS (Kernel#clone): mention freeze flag. [Feature #12300]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@55809 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 55809 - 08/03/2016 08:20 AM - nobu (Nobuyoshi Nakada)
NEWS: Kernel#clone [ci skip]
  NEWS (Kernel#clone): mention freeze flag. [Feature #12300]

Revision 55809 - 08/03/2016 08:20 AM - nobu (Nobuyoshi Nakada)
NEWS: Kernel#clone [ci skip]
  NEWS (Kernel#clone): mention freeze flag. [Feature #12300]

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History

#1 - 04/20/2016 01:35 AM - shyouhei (Shyouhei Urabe)
Sounds much simpler than the previous one to understand what is happening. Also it seems backwards-compatible.

Given the needs of this kind, I'd like to +1.

#2 - 07/19/2016 05:47 AM - matz (Yukihiro Matsumoto)
Sounds reasonable.

Matz.

#3 - 08/01/2016 05:55 AM - shyouhei (Shyouhei Urabe)
- Status changed from Open to Closed

Applied in changeset r55786.

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Files

0001-Allow-clone-to-take-freeze-false-keyword-argument-to.patch 3.93 KB 04/19/2016 jeremyevans0 (Jeremy Evans)