

## CommonRuby - Feature #11541

### Let attr\_accessor, \_reader & \_writer return symbols of the defined methods

09/20/2015 03:37 PM - iGEL (Johannes Barre)

<b>Status:</b>	Open
<b>Priority:</b>	Normal
<b>Assignee:</b>	
<b>Target version:</b>	
<b>Description</b>	
<p>Since Ruby 2.1, def returns a symbol with the name of the just defined method, so you can easily pass it to visibility modifiers like private, protected, and public. Why not let attr_reader &amp; friends return an array with the names of the defined methods, so we can easily write:</p>	
<pre>private attr_reader :method1, :method2</pre>	
<p>To fully support the example above, private would be required to accept also arrays with method names. Without it, it would require the star syntax, which would already be an improvement:</p>	
<pre>private *attr_reader :method1, :method2</pre>	
<p>I wrote two test cases to better illustrate the impact:</p>	
<pre>test/ruby/test_module.rb:</pre>	
<pre>def test_attr_return_value   c = Class.new    assert_equal(%i(reader1 reader2), c.class_eval { attr_reader(:reader1, :reader2) })   assert_equal(%i(writer1= writer2=), c.class_eval { attr_writer(:writer1, :writer2) })   assert_equal(%i(accessor1 accessor1= accessor2 accessor2=), c.class_eval { attr_accessor(:acces ssor1, :accessor2) }) end</pre>	
<pre>test/ruby/test_method.rb:</pre>	
<pre>def test_visibility_modifier_with_array   c = Class.new do     def m1; end     def m2; end   end    c.class_eval { private %i(m1 m2) }   assert(c.private_method_defined?(:m1))   assert(c.private_method_defined?(:m2))    c.class_eval { protected %w(m1 m2) }   assert(c.protected_method_defined?(:m1))   assert(c.protected_method_defined?(:m2))    c.class_eval { public :m1, [:m2] } # Not sure if this should be allowed.   assert(c.public_method_defined?(:m1))   assert(c.public_method_defined?(:m2))    assert_raise(NameError) do     c.class_eval { private %i(m1 m2 m3) }   end   assert(c.private_method_defined?(:m1))   assert(c.private_method_defined?(:m2))    assert_raise(TypeError) do     c.class_eval { protected [:m1, 2] }   end   assert(c.private_method_defined?(:m1))</pre>	

```
assert_raise(TypeError) do
  c.class_eval { public [:m1, [:m2]] } # Not sure about this case. Should it be allowed?
end
assert(c.public_method_defined?(:m1))
end
```

WDYT? Thank you!

#### Related issues:

Related to CommonRuby - Feature #12019: Better low-level support for writing ...	Open
Related to Ruby master - Feature #14397: public, protected and private should...	Assigned
Related to Ruby master - Feature #6470: Make attr_accessor return the list of...	Open
Related to Ruby master - Feature #9453: Return symbols of defined methods for...	Rejected
Related to Ruby master - Feature #13560: Module#attr_methods return reasonab...	Open

#### History

##### #1 - 01/25/2016 07:55 PM - pitr.ch (Petr Chalupa)

+1, this is also very useful for [low level concurrency proposals](#). It allows to write public attr :status, atomic: true where attr returns array of 4 defined atomic helper methods. The array is accepted by public method which modifies the visibility of the helpers.

##### #2 - 01/25/2016 10:20 PM - Eregon (Benoit Daloze)

- Related to Feature #12019: Better low-level support for writing concurrent libraries added

##### #3 - 01/25/2018 12:20 PM - Eregon (Benoit Daloze)

- Related to Feature #14397: public, protected and private should return their arguments instead of self added

##### #4 - 03/16/2018 06:12 AM - gfx (Goro FUJI)

+1

I'm about to issue the same feature request ☐☐

##### #5 - 11/28/2018 10:51 AM - shevegen (Robert A. Heiler)

I don't have a big pro or con opinion (am neutral here), but perhaps we could move this to an upcoming developer meeting anyway?

##### #6 - 01/10/2019 09:16 AM - Eregon (Benoit Daloze)

- Related to Feature #6470: Make attr\_accessor return the list of generated method added

##### #7 - 08/19/2019 01:54 AM - znz (Kazuhiro NISHIYAMA)

- Related to Feature #9453: Return symbols of defined methods for `attr` and friends added

##### #8 - 08/19/2019 01:55 AM - znz (Kazuhiro NISHIYAMA)

- Related to Feature #13560: Module#attr\_methods return reasonable values added