

Ruby master - Bug #11705

Namespace resolution in nested modules with short syntax

11/17/2015 11:28 PM - mwpastore (Mike Pastore)

| | |
|--|---|
| Status: Rejected | |
| Priority: Normal | |
| Assignee: | |
| Target version: | |
| ruby -v: | Backport: 2.0.0: UNKNOWN, 2.1: UNKNOWN, 2.2: UNKNOWN |
| Description Given the following definition: <pre>module Foo class Qux def self.hello 'Hello, world!' end end end</pre> Namespace resolution at a later time works differently when you have nested modules, e.g. <pre>module Foo module Bar # Can't find Foo::Bar::Qux, so "goes up" to find Foo::Qux. p Qux.hello # < "Hello, world!" end end</pre> vs. the short syntax, e.g. <pre>module Foo::Bar # Can't find Foo::Bar::Qux, but doesn't "go up" to find Foo::Qux. p Qux.hello # < in `<module:Bar>': uninitialized constant Foo::Bar::Qux (NameError)</pre> Is this intentional and/or expected? | |
| Related issues: Has duplicate Ruby master - Feature #16430: Resolution of constants in enclosi... Rejected | |

History

#1 - 12/18/2015 08:30 AM - shugo (Shugo Maeda)

- Status changed from Open to Rejected

Mike Pastore wrote:

Is this intentional and/or expected?

It's intentional and expected.

If class and/or module definitions are explicitly nested, constants of outer classes and/or modules are looked up. However, if a class or module definition is not nested, only constants in the class or module, its ancestors, and if the target is a module, Object and Object's ancestors are looked up.

You can see module nesting information by `Module.nesting`.

```
module Foo
  module Bar
    p Module.nesting #=> [Foo::Bar, Foo]
    p Qux.hello      #=> "Hello, world!"
```

```
end
end

module Foo::Bar
  p Module.nesting #=> [Foo::Bar]
  p Qux.hello      #=> NameError, because Foo is not included in Module.nesting
end
```

#2 - 12/18/2019 01:18 AM - mame (Yusuke Endoh)

- Has duplicate Feature #16430: Resolun of constants in enclosing class/module affected by how nested classes/modules are declared added