Ruby - Feature #12079

Loosening the condition for refinement

02/16/2016 01:29 PM - sawa (Tsuyoshi Sawada)

Status:	Rejected		
Priority:	Normal		
Assignee:	matz (Yukihiro Matsumoto)		
Target version:			
Description			
There are a few no	on-standard ways of calling a method that cannot	t be used when the relevant method is a refined method:	
 a symbol use a symbol use 	d with & as a block via symbol to proc d with send orsend		
For example, the fo	ollowing will fail:		
module Foc refine S def ba end end using Foc	String z; end		
["a", "b", "c"].map(&:baz) # => undefined method error			
"a".send(:	baz) $\# \Rightarrow$ undefined method error		
I would like to prop provoke Symbol#to methods.	ose to loosen the condition for refinement so that p_proc or calling of send orsend) is within t	It as long as the relevant construction (such as the use of & he valid scope of refinement, allow the call to the relevant	§ to
Related issues:			
Has duplicate Ruby - Bug #12530: Module Refinements		Rejected	
Is duplicate of Ruby - Feature #9451: Refinements and unary & (to_proc)		Closed	
Is duplicate of Ruby - Feature #11476: Methods defined in Refinements cannot		nnot Closed	

History

#1 - 02/20/2016 03:34 PM - sawa (Tsuyoshi Sawada)

To the list of relevant constructions, I would also like to add inject when it takes a symbol argument.

```
module Foo
  refine String do
    def baz a, b; a + b * 2 end
  end
end
using Foo
["x", "y", "z"].inject(:baz) # => undefined method error
["x", "y", "z"].inject("", :baz) # => undefined method error
```

So my generalization for the target of my proposal is: Ruby core methods/constructions in which a(nother) method is called in the form of a symbol or a string. There may be a few more of them that I have missed.

#2 - 02/21/2016 02:14 AM - sawa (Tsuyoshi Sawada)

There is a point that needs to be made clear regarding this proposal: whether the symbol or string used in the construction has to be a literal. I think there would be use cases where the symbol/string is expressed as a more complex expression:

```
module Foo
  refine String do
    def baz; end
  end
end
```

def a

```
case some_expression
when "x" then :baz
when "y" then :bar
end
end
```

```
using Foo
["a", "b", "c"].map(&(some_condition ? :baz : :bar))
"a".__send__("BAZ".downcase)
"a".send(a)
```

In order for the proposal to be useful, I think the relevant symbol/string should not be restricted to literals. Furthermore, the location where the expression is expanded to a symbol/string should not matter; solely the location of &, __send__, or send, etc. should matter. In above, while send is within the scope of refinement for String#baz, a, which can be possibly expanded to :baz, is expanded outside of the scope of refinement. In such cases too, I think the refinement should be effective.

#3 - 05/28/2016 09:55 AM - hsbt (Hiroshi SHIBATA)

- Status changed from Open to Assigned
- Assignee set to shugo (Shugo Maeda)

#4 - 06/24/2016 06:22 AM - shugo (Shugo Maeda)

- Assignee changed from shugo (Shugo Maeda) to matz (Yukihiro Matsumoto)

I would like to propose to loosen the condition for refinement so that as long as the relevant construction (such as the use of & to provoke Symbol#to_proc or calling of send or **send**) is within the valid scope of refinement, allow the call to the relevant methods.

What do you think, Matz?

#5 - 06/29/2016 03:25 AM - shugo (Shugo Maeda)

- Has duplicate Bug #12530: Module Refinements added

#6 - 06/29/2016 03:27 AM - matz (Yukihiro Matsumoto)

I agree that would be nicer to users. My concern is performance penalty.

Matz.

#7 - 09/08/2016 06:49 AM - shugo (Shugo Maeda)

- Is duplicate of Feature #9451: Refinements and unary & (to_proc) added

#8 - 09/08/2016 06:49 AM - shugo (Shugo Maeda)

- Is duplicate of Feature #11476: Methods defined in Refinements cannot be called via send added

#9 - 09/08/2016 06:51 AM - shugo (Shugo Maeda)

- Status changed from Assigned to Rejected

This issue will be addressed by <u>#9451</u> and <u>#11476</u>.