# Ruby - Feature #5628

# Module#basename

11/14/2011 11:17 AM - trans (Thomas Sawyer)

Status: Feedback
Priority: Normal

Assignee: matz (Yukihiro Matsumoto)

Target version:

## Description

Something I use fairly often:

```
some_module.name.split("::").last
```

It's useful for things like factory methods. It would be much nicer if we had:

```
class Module
  def basename
    name.split("::").last
  end
end
```

## History

#### #1 - 11/14/2011 02:53 PM - wycats (Yehuda Katz)

Totally agreed. This pattern is fairly common. It would also be nice to have Module#modules or something, such that Foo::Bar would return [Foo, Bar].

Yehuda Katz (ph) 718.877.1325

On Sun, Nov 13, 2011 at 6:17 PM, Thomas Sawyer transfire@gmail.com wrote:

Issue #5628 has been reported by Thomas Sawyer.

Feature #5628: Module#basename http://redmine.ruby-lang.org/issues/5628

Author: Thomas Sawyer Status: Open Priority: Normal Assignee: Category:

Target version: 1.9.4

Something I use fairly often:

some\_module.name.split("::").last

It's useful for things like factory methods. It would be much nicer if we

had:

class Module def basename name.split("::").last end end

--

http://redmine.ruby-lang.org

# #2 - 11/14/2011 03:32 PM - agrimm (Andrew Grimm)

I'm not sure about the method name. What should happen with File::basename? Should it call super when there's no arguments, and do its own thing

06/13/2025 1/5

when called with an argument? I'd prefer Ruby to tell me that I forgot to pass in a string!

## #3 - 11/14/2011 07:23 PM - Eregon (Benoit Daloze)

On 14 November 2011 07:32, Andrew Grimm andrew.i.grimm@gmail.com wrote:

Issue #5628 has been updated by Andrew Grimm.

I'm not sure about the method name. What should happen with File::basename? Should it call super when there's no arguments, and do its own thing when called with an argument? I'd prefer Ruby to tell me that I forgot to pass in a string!

I also agree this would be useful.

But the name 'basename' is probably not the best.

I remember I used simple\_name for this, but it's not appealing.

#### #4 - 11/14/2011 07:59 PM - regularfry (Alex Young)

On 14/11/11 10:19, Benoit Daloze wrote:

On 14 November 2011 07:32, Andrew Grimm andrew.j.grimm@gmail.com wrote:

Issue #5628 has been updated by Andrew Grimm.

I'm not sure about the method name. What should happen with File::basename? Should it call super when there's no arguments, and do its own thing when called with an argument? I'd prefer Ruby to tell me that I forgot to pass in a string!

I also agree this would be useful.

But the name 'basename' is probably not the best.

I remember I used simple\_name for this, but it's not appealing.

I like this - I use .split("::").last all over the place.

A few alternatives, since I agree it would be unfortunate to overload .basename:

```
.inner_name
.last_name
.primary_name
.name( false )
.name( :full => false )
--
```

Alex

# #5 - 11/14/2011 08:58 PM - trans (Thomas Sawyer)

@Andrew File::basename is a class method, where as Module#basename is an instance method, so there isn't really any "polymorphic confliction".

I think we'd also be hard pressed to find a better name. I've thought about it quite a bit. And nothing else seems to fit. Ironically #firstname makes the most semantic sense for English speakers. Since Ruby is Japanese in origin, then #lastname is a fun option to confound Americans;)

I think #basename is best b/c there is a common correspondence between files and classes, eg. lib/foo/some\_class will usually contain Foo::SomeClass. There is also Pathname#basename.

# #6 - 11/14/2011 11:53 PM - Eregon (Benoit Daloze)

On 14 November 2011 12:58, Thomas Sawyer transfire@gmail.com wrote:

Issue #5628 has been updated by Thomas Sawyer.

@Andrew File::basename is a class method, where as Module#basename is an instance method, so there isn't really any "polymorphic confliction".

Are you so sure? ;-)

A class method is an instance method on the class, so yes File::basename conflicts with Module#basename:

class Module def basename name.split("::").last end

06/13/2025 2/5

end

Enumerator::Generator.basename
=> "Generator"
File.basename
ArgumentError: wrong number of arguments (0 for 1..2)

from (irb):7:in `basename' File.basename 'file.ext'

=> "file.ext"

So one calling 'basename' on a Module can expect either a String or an ArgumentError.

And changing File::basename to be Module#basename when no arguments are given does not seem a good design at all.

### #7 - 11/15/2011 12:10 AM - trans (Thomas Sawyer)

You're right. File is also Module (subclass of Class). So, yes, another name is needed, or ::File.basename accepted as an exception.

In my defense, I always thought File class methods for file handling were bad mojo! It would be much better if Pathname were core and File class methods non-existent (IMHO).

## #8 - 11/15/2011 05:29 AM - wycats (Yehuda Katz)

I would probably be ok with mod.modules.last.name to be honest.

Yehuda Katz (ph) 718.877.1325

On Mon, Nov 14, 2011 at 7:12 AM, Thomas Sawyer transfire@gmail.com wrote:

Issue #5628 has been updated by Thomas Sawyer.

You're right. File is also Module (subclass of Class). So, yes, another name is needed, or ::File.basename accepted as an exception.

In my defense, I always thought File class methods for file handling were bad mojo! It would be much better if Pathname were core and File class methods non-existent (IMHO).

Feature #5628: Module#basename http://redmine.ruby-lang.org/issues/5628

Author: Thomas Sawyer Status: Open Priority: Normal Assignee: Category:

Target version: 1.9.4

Something I use fairly often:

some\_module.name.split("::").last

It's useful for things like factory methods. It would be much nicer if we had:

class Module def basename name.split("::").last end end

\_

http://redmine.ruby-lang.org

# #9 - 11/15/2011 05:59 AM - trans (Thomas Sawyer)

I would probably be ok with mod.modules.last.name to be honest.

06/13/2025 3/5

Then might as well add mod.lastname too. If the implementation is anything like the pure-Ruby one, it is more efficient to have a dedicated method. And I much prefer the shorter syntax. If not #lastname then maybe #modname.

#### #10 - 03/28/2012 12:17 AM - mame (Yusuke Endoh)

- Assignee set to matz (Yukihiro Matsumoto)

#### #11 - 03/31/2012 11:09 AM - mame (Yusuke Endoh)

- Status changed from Open to Assigned

# #12 - 03/31/2012 11:15 AM - mame (Yusuke Endoh)

- Target version changed from 1.9.4 to 2.0.0

Hello,

2011/11/14 Thomas Sawyer transfire@gmail.com:

Something I use fairly often:

some\_module.name.split("::").last

Personally, I've never used such a hack. When do you use?

Yusuke Endoh mame@tsg.ne.jp

## #13 - 03/31/2012 11:29 AM - trans (Thomas Sawyer)

Common case (for me) is when user selects a "plug-in" via a command line option. For example a pseudo test framework:

```
$ mytest --reporter progress
```

## Then in code:

```
module MyTestFramework
  def self.reporters
    @reporters ||= {}
  end

module Reporters
    class Base
       def self.inherited(subclass)
            MyTestFramework.reporters[subclass.basename.downcase] = subclass
       end
    end
  end
end
end
end
```

Then reporters are very easy to lookup with command line option.

```
MyTestFramework.reporters[reporter] # i.e. reporter = 'progress'
```

That's just one example, but I have found the basic pattern to be useful in many such "pluggable" designs.

# #14 - 03/31/2012 06:24 PM - regularfry (Alex Young)

=begin

I'm doing something remarkably similar to this for mapping command-line subcommand selection into a module's namespace. It's very handy. =end

#### #15 - 04/01/2012 01:29 AM - matz (Yukihiro Matsumoto)

- Status changed from Assigned to Feedback

I am not sure if it's worth adding to the core. It is so easy to add by third-party lib.

Besides that, even though the term "basename" is understandable from analogy to UNIX command name, but the term includes "base" might cause

06/13/2025 4/5

confusion, since "base" in object class has different meaning (especially C++ and other languages).

Matz.

## #16 - 04/01/2012 03:36 AM - trans (Thomas Sawyer)

You are right about name, it would have to be something else besides #basename.

Yehuda Katz said he would probably be ok with mod.modules.last.name, to which I commented, we may as well add mod.lastname.

# #17 - 10/25/2012 05:49 PM - yhara (Yutaka HARA)

- Target version changed from 2.0.0 to 2.6

# #18 - 12/25/2017 06:15 PM - naruse (Yui NARUSE)

- Target version deleted (2.6)

# #19 - 08/29/2020 05:01 PM - fatkodima (Dima Fatko)

Used this numerous times.

I like this suggestion:

regularfry (Alex Young) wrote in #note-4:

```
.name( false )
.name( :full => false )
```

What ruby-core think on this?

06/13/2025 5/5