# Ruby - Feature #12843

# Proposal to add a new method to class File in order to determine the name of the file without any suffix

10/16/2016 10:39 AM - shevegen (Robert A. Heiler)

Status:	Open	
Priority:	Normal	
Assignee:		
Target versio	:	
Description		
	ve File.basename() and File.dirname(), both of which and are quite useful when working with files and	
When you war something like	to get the filename without extension, you can use his:	
File.basena	ne('foo/bar/test.rb', '.rb')	
File.basena	ne('foo/bar/test.rb', '.*')	
to add a metho only one argur	s very well, I was wondering if it would be possible d that does precisely that for you but which requires ent - the path. That would allow us to omit the ',' argument, which I think would be nice to have.	
Resulting ruby	code may be a tiny bit shorter:	
	me('foo/bar/test.rb', '.*') XY('foo/bar/test.rb')	
Where .metho	XY() should be the name of the new method added.	
class File nam return the filen without any pa	e to suggest a way for a new method addition, on the space, just like .basename() and .dirname(), that will me of a given path/file, but without any suffix and n - so, similar to File.basename() but to additionally way all extname suffixes.	
particular whe	proper, meaningful name is often difficult. In method names should ideally be short; both asename are quite short too.	
My obvious ch	ice would be:	
File.filena	ne ()	
	re if this is a good name. A problem is that I p with a better name.	
We also alread "extension nar	<pre>/ have File.extname() in order to determine the e" of the file.</pre>	
https://ruk	<pre>v-doc.org/core-2.2.0/File.html#method-c-extname</pre>	
directory via .c	ly have 3 behaviours - obtain the name of the rname; obtain the name of the file/entry itself, and being able to obtain the name of the extension	
of the name of	ly appear to be missing is to obtain the part a path/file/directory WITHOUT the extension	

and WITHOUT the leading dirname part.

If File.filename() is not a good name then perhaps any of the following may serve as better alternatives; some are obviously not really great names though, I add them mostly for comparison:

File.no\_suffix()
File.corename()
File.shortname()
File.short\_name()
File.sname()
File.filename\_without\_extension() # Probably too verbose but
 # probably more descriptive than the other names

Anyway, I guess the name of the method is one thing - if the functionality itself would be approved, then I am sure a good name can be found for the functionality anyway if none of the above are very good choices. I just thought that it should fit towards .dirname .basename and .extname, hence why I put .filename first.

Thanks for reading!

#### History

### #1 - 10/16/2016 11:53 PM - nobu (Nobuyoshi Nakada)

- Description updated

Robert A. Heiler wrote:

I would thus like to suggest a way for a new method addition, on the class File namespace, just like .basename() and .dirname(), that will return the filename of a given path/file, but without any suffix and without any path - so, similar to File.basename() but to additionally already chop away all extname suffixes.

Maybe what is called as "stem" in GNU make document?

File.filename()

It sounds like same as basename.

What we actually appear to be missing is to obtain the part of the name of a path/file/directory WITHOUT the extension and WITHOUT the leading dirname part.

#### What about WITHOUT the extension but WITH the leading dirname part?

File.no\_suffix()

#### It sounds like keeping the prefix.

File.corename()
File.corefile()

#### "core" has a different meaning.

File.shortname()
File.short\_name()
File.sname()

#### These remind me a Windows short file name.

File.filename\_without\_extension() # Probably too verbose but
 # probably more descriptive than the other names

No ambiguity, but, too verbose.

## #2 - 10/17/2016 08:56 AM - Eregon (Benoit Daloze)

What is your use-case?

If it's to append another extension, Pathname#sub\_ext might interest you. Actually, it can even be used to remove the extension:

Pathname("dir/file.ext").sub\_ext("") # => #<Pathname:dir/file>

In path (<u>https://github.com/eregon/path</u>), I named this operation rm\_ext. It also keeps the dirname part as nobu mentions, so what you would need is

Path("dir/file.ext").rm\_ext.basename
# or
Path("dir/file.ext").basename.rm\_ext

I think it's good to separate these two concerns as they compose well.

If one wants to use raw strings, then I think File.basename(path, ".\*") is already quite short.