

Ruby - Bug #21272

Class.new doesn't trigger :class TracePoint

04/18/2025 07:29 AM - st0012 (Stan Lo)

Status:	Open	
Priority:	Normal	
Assignee:		
Target version:		
ruby -v:		Backport: 3.2: UNKNOWN, 3.3: UNKNOWN, 3.4: UNKNOWN

Description

According to the official [documentation](#):

To filter what is traced, you can pass any of the following as events:

:class
Start a class or module definition.

I'd expect :class events to be triggered when new classes are defined via Class.new as well, but currently that's not the case.

Should we either support Class.new, or clarify the behaviour in documentation?

Reproduction

```
TracePoint.trace(:class) do |tp|
  puts "Class created at line: #{tp.lineno}"
end

class Foo; end # Triggers the tracepoint

Baz = Class.new # Doesn't trigger the tracepoint

# ruby test.rb
# Class created at line: 5
```

History

#1 - 04/26/2025 06:25 PM - Eregon (Benoit Daloze)

In my view, Baz = Class.new doesn't really "Start a class or module definition." it creates a class but there is no definition of it, no body. Though Baz = Class.new { ... } would arguably start a definition/body, but then so would Baz.class_exec { ... } and that seems less reasonable to catch with a :class TracePoint.

I think unless there is a good motivating example to change behavior (which could be incompatible), it's better to just document it better, so I'd suggest opening a PR to document it better.