



I SHOULD  
DO OSS

## Entwicklungsprozesse in Open-Source-Projekten

Sommersemester 2011

[Martin v. Löwis](#)

Gegenstand des Seminars ist die Entwicklung von freier Software ("Open Source Software"). Dabei geht es sowohl um den Quelltext populärer Softwarepakete selbst, als auch um den Entwicklungsprozess dieser Pakete (organisatorische Strukturen, Groupware-Systeme, Änderungs- und Fehlerverwaltung).

Termin: Mi, 11:00-12:30, A-2.1

Veranstaltungsüberblick

### Veranstaltungstermine

Datum	Vortragende	Thema
13.04.11	Martin v. Löwis	Einführung
20.04.11	Martin v. Löwis	Themenvergabe, Open Source Definition
27.04.11	Martin v. Löwis	Projektdiskussion
4.05.11	Martin v. Löwis	GNU Public License
11.05.11	Martin v. Löwis	Wie Python entwickelt wird
18.05.11	Martin v. Löwis	Eric Raymond: The Cathedral and the Bazaar
25.05.11	Martin v. Löwis	<i>Keine Veranstaltung</i>

## Bug 632019 -

Summary: Middle-click on tab should close tab

**LET'S  
DO THIS!**



Nicolas Marchildon 2010-10-12 23:56:58 UTC

[Description](#)

Firefox and Chrome support that: middle-click closes that tab.

chuchiperriman 2010-11-18 15:24:09 UTC

[Comment 1](#)

I like...

Tobias Pfeiffer 2011-07-12 14:38:57 UTC

[Comment 2](#)

Created [attachment 191815](#) [[details](#)] [[review](#)].  
Proposed Patch to close tabs on middle mouse button click

On my systems this patch works and adds the desired functionality. However the implementation is kind of ugly since the position of a gtk widget had to be determined and the only solution I found was copying a private method of GtkWidget. This is no good. I hope for feedback regarding this issue, plus other feedback since this is my first time programming GTK. Also please have a look at the commit message.

Tobias Pfeiffer 2011-07-12 22:27:05 UTC

[Comment 3](#)

Sorry I am a bit tired, the method wasn't copied from GTKWidget but from GTKNotebook... I am sorry for the confusion!

Sebastien Bacher 2011-08-03 10:50:11 UTC

[Comment 4](#)

duplicate of [bug #445402](#)?

Ignacio Casal Quinteiro (nacho) 2011-08-03 12:46:26 UTC

[Comment 5](#)

Thanks for the bug report. This particular bug has already been reported into our bug tracking system, but please feel free to report any further bugs you find.

\*\*\* This bug has been marked as a duplicate of [bug 445402](#) \*\*\*

gedit

Ignacio Casal Quinteiro (nacho) 2011-08-03 12:46:26 UTC

[Comment 5](#)

Thanks for the bug report. This particular bug has already been reported into our bug tracking system, but please feel free to report any further bugs you find.

\*\*\* This bug has been marked as a duplicate of [bug-445402](#) \*\*\*



**The End**



needless work

# The End

needless work

# The End

missing triaging

needless work

# The End

missing triaging

no appreciation

# The End

needless work

missing triaging

no appreciation

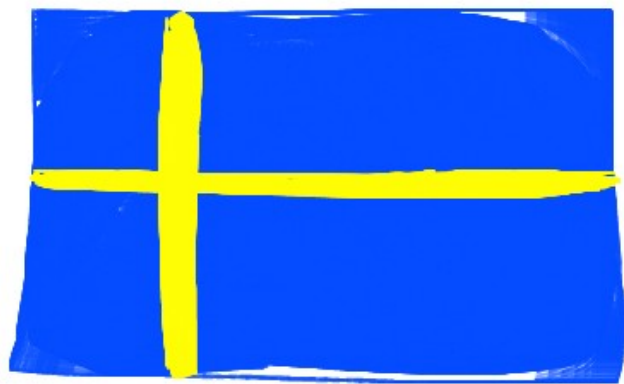
frustration

# Stories in Open Source

Tobias Pfeiffer

[@PragTob](#)

[pragtop.info](http://pragtop.info)



# Welcome to Mendicant University



We are a group of software developers who use our technical skills to make a real positive impact on the world. Rather than learning in a traditional classroom setting, we sharpen our skills by working on real projects while helping each other out.



# Shoes!

Ever wanted to build a GUI? Annoyed that it's so much effort? Shoes makes building little graphical programs for Mac, Windows, and Linux *super* simple.

[Learn more »](#)

The screenshot shows a Ruby Shoes application. On the left, a vim editor displays the source code for `Shoes.app`. The code defines a window titled "Welcome to Shoes!" with a width of 600 and height of 400. It sets a gainsboro background and includes a subtitle and tagline. A flow of buttons is defined: Search Stuff, Print Page, Open Notes, Get Photo, and Burn Disk. Below the buttons, there is a text input field with the value "my own twitter gui" and a "No problemo, lets go!" button. The GUI window on the right shows the rendered output of this code, including the buttons and the text input field. A large pink arrow points from the word "RUBY" to the word "GUI", indicating the transformation from code to a graphical user interface.

```
Shoes.app(title: "Welcome to Shoes!", width: 600, height: 400) do
  stack margin: 10 do

    stack margin: 10 do
      background gainsboro
      subtitle "Ever wanted to build a GUI?"
      tagline "Annoyed that it's so much effort?"
    end

    flow do
      buttons = {
        search: "Search Stuff",
        printer: "Print Page",
        notes: "Open Notes",
        photo: "Get Photo",
        blueray: "Burn Disk"
      }

      buttons.each do |key, value|
        stack width: 100 do
          image "images/#{key.to_s}.png"
          para value
        end
      end
    end

    stack margin: 10 do
      background gainsboro
      para "I just want to build..."
      list_box items: ["my own twitter gui", "my own music player", "time machine"]
    end
  end
end
```

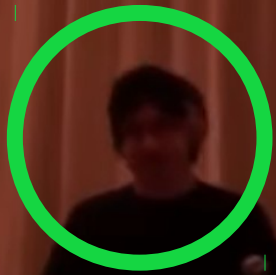


```
Shoes.app width: 300, height: 200 do
  background lime..blue

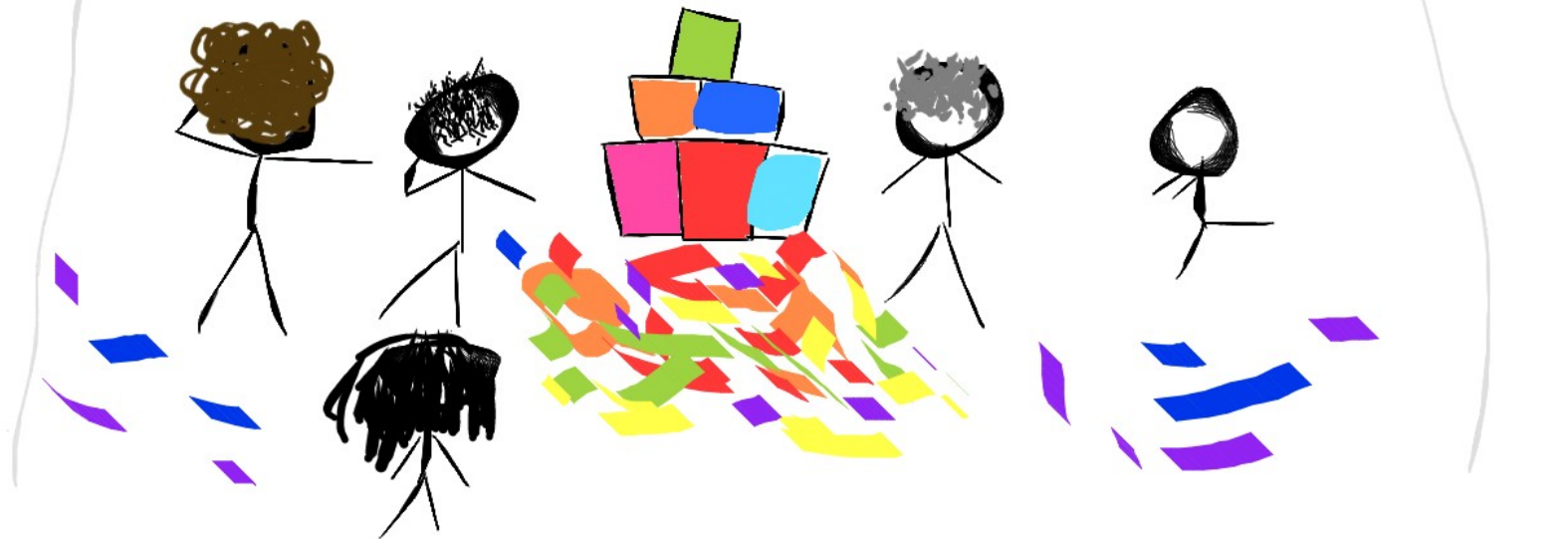
  stack do
    para "Welcome to the world of Shoes!"
    button "Click me" do
      alert "Nice click!"
    end

    image "http://shoesrb.com/img/shoes-icon.png",
          margin_top: 20, margin_left: 10
  end
end
```

I ♥  
SHOES



— Why



Welcoming, friendly & helpful



# OSS friends



Give people access



Release early, release often



You are not your OSS





after\_do

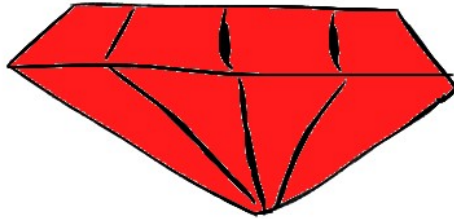
```
class Dog
  def bark
    puts 'Woooof'
  end
end
```

```
Dog.extend AfterDo
Dog.after :bark do puts 'I just heard a dog bark!' end
```

```
dog = Dog.new
dog.bark
```

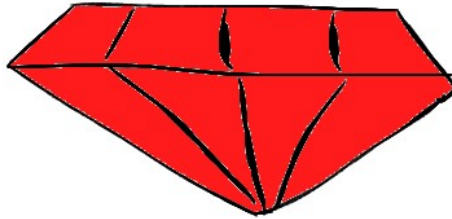
```
# Output is:
# Woooof
# I just heard a dog bark!
```

Shiny



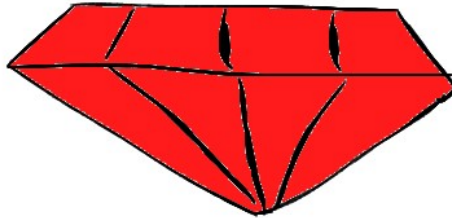
micro libraries are great

Shiny



you have no idea how it's used

Shiny



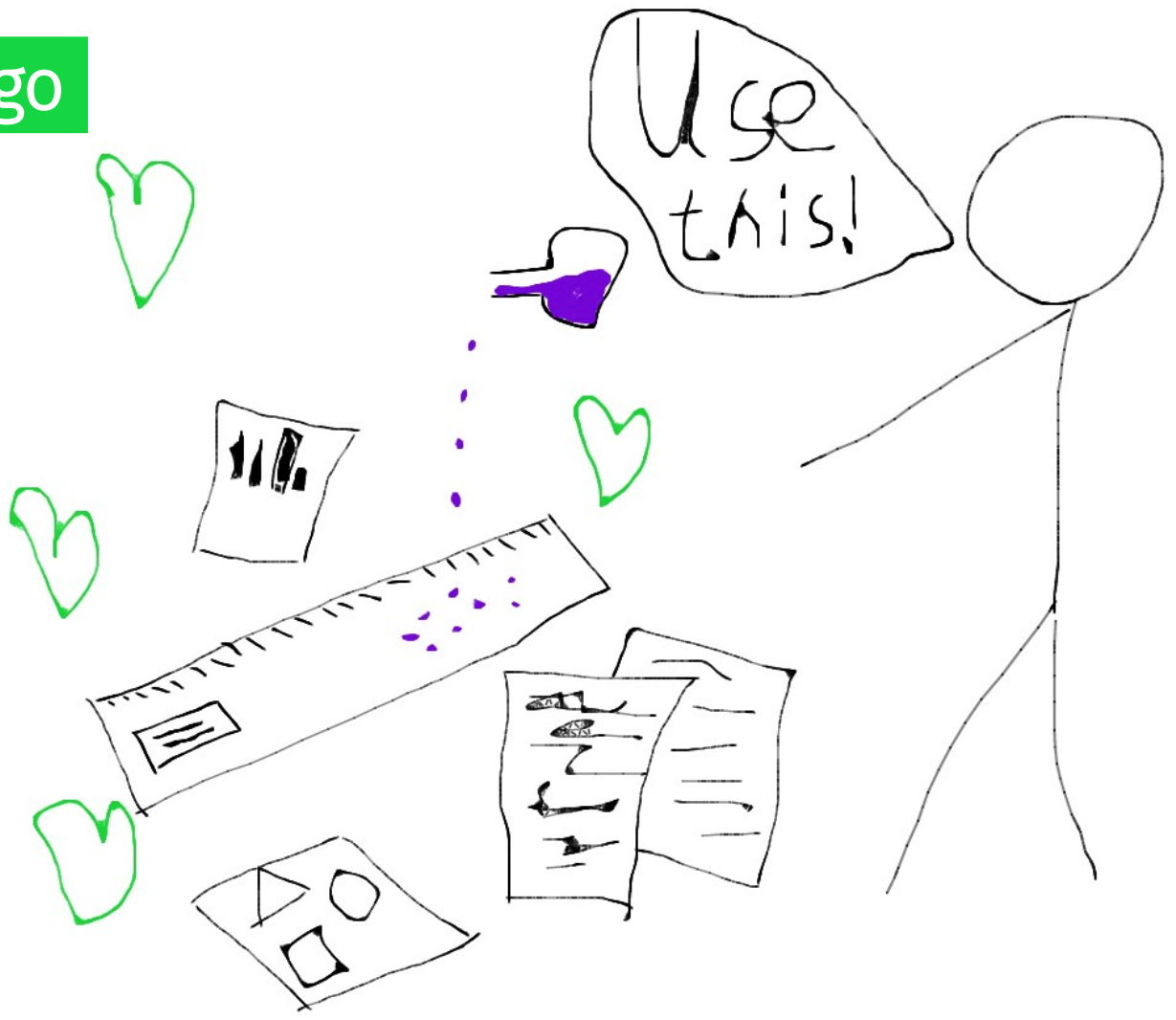
# benchee

```
list = Enum.to_list(1..10_000)
map_fun = fn i → [i, i * i] end
```

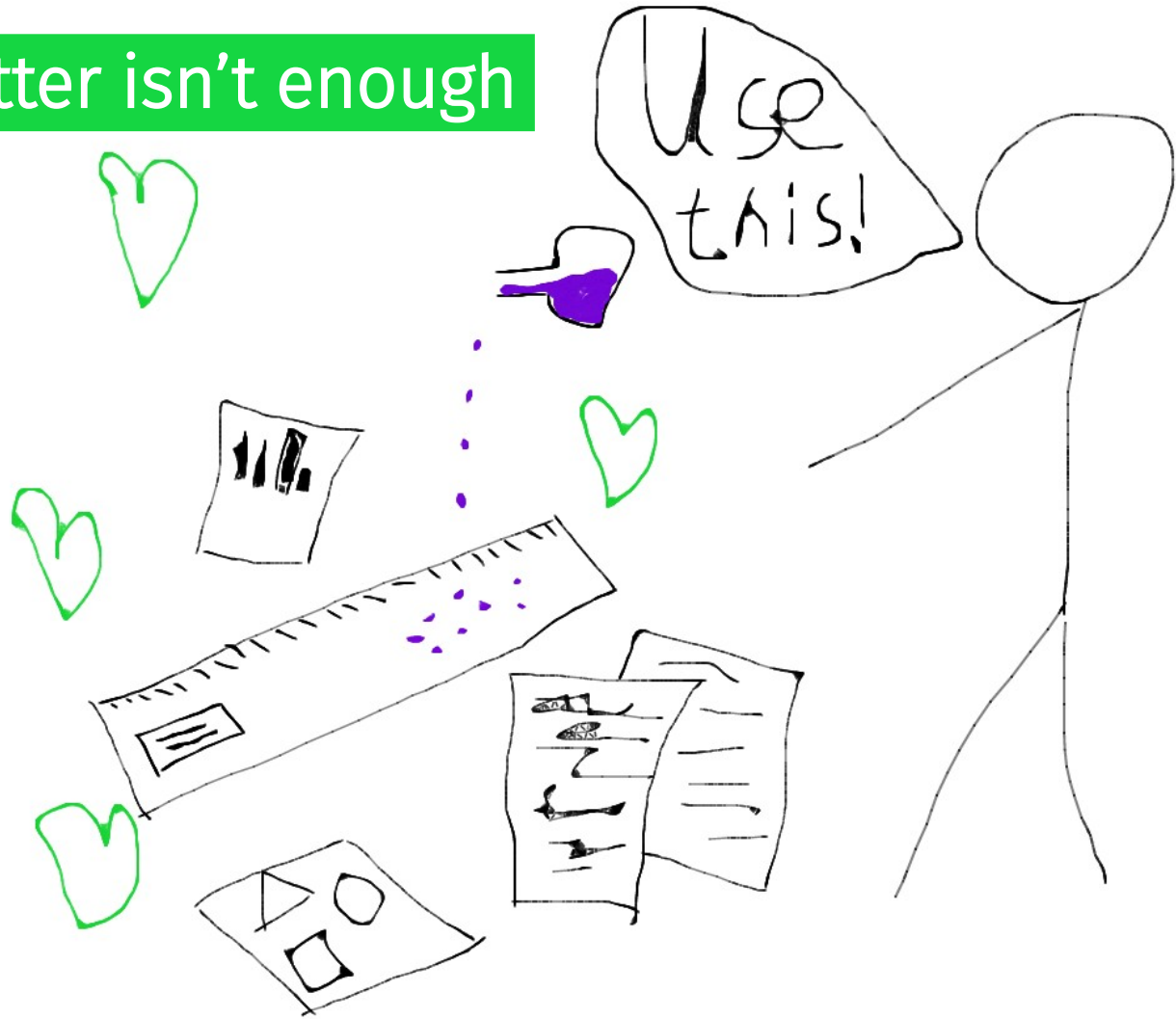
```
Benchee.run(
  %{
    "flat_map" ⇒ fn → Enum.flat_map(list, map_fun) end,
    "map.flatten" ⇒ fn → list ▷ Enum.map(map_fun) ▷ List.flatten() end
  },
  time: 10,
  memory_time: 2
)
```



learn as you go

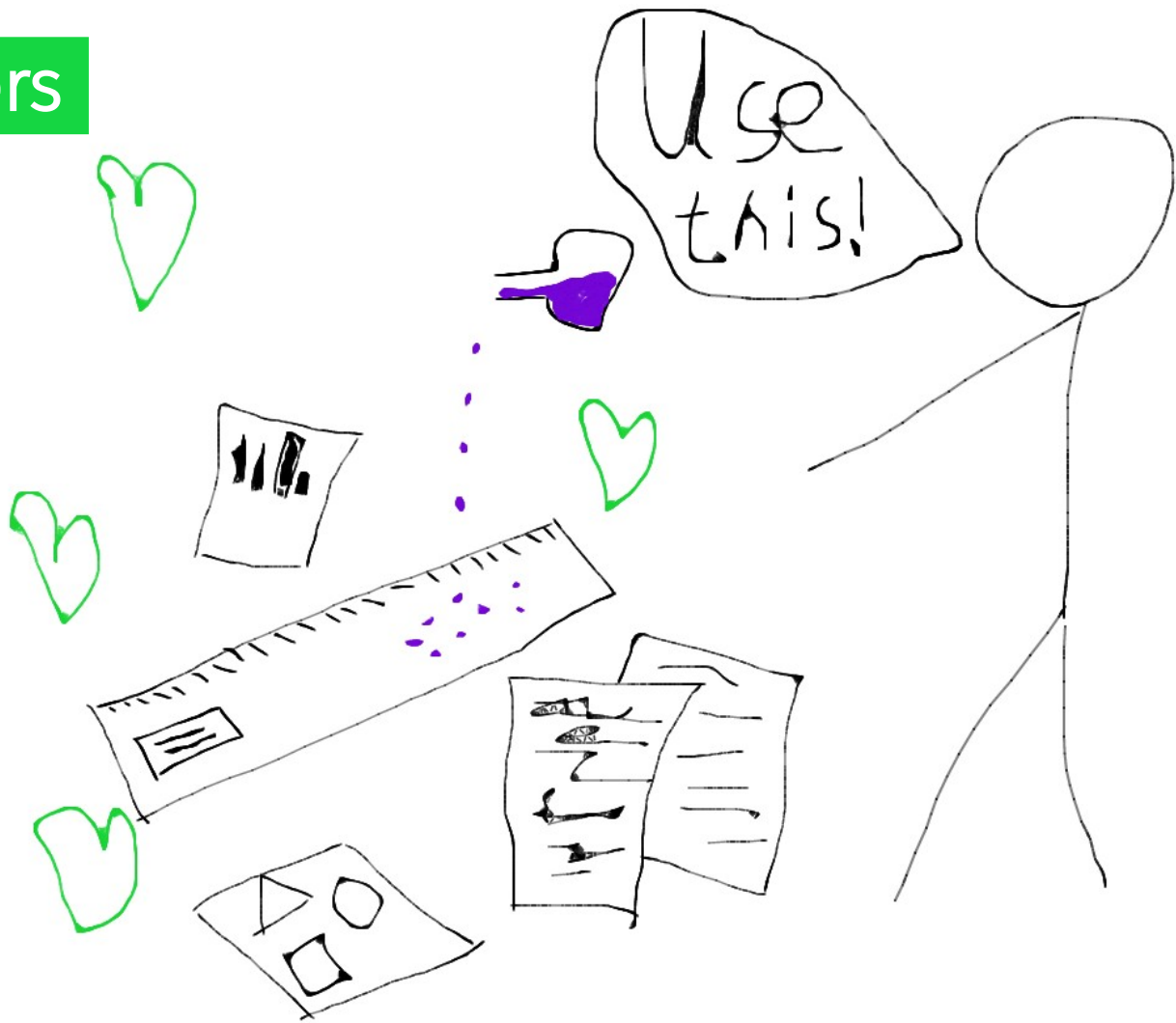


just being better isn't enough





co-maintainers



We made it!

```
defmodule FileBench do
  @fixture "path/to/words.txt"

  def run do
    Benchee.run(%{
      "with read" => &with_read/0,
      "with stream" => &with_stream/0,
    }, time: 10)
  end

  def with_read do
    @fixture
    |> File.read!
    |> String.split("\n")
    |> Enum.max_by(&String.length/1)
  end

  def with_stream do
    @fixture
    |> File.stream!
    |> Enum.max_by(&String.length/1)
    |> String.trim()
  end
end
```

The file has three functions. `run` executes the entire benchmark, comparing the `with read` results with the `with stream` results. The other two functions provide the implementations we're benchmarking.

We're ready to run it:

```
$ mix run -r perf/file_bench.exs -e "FileBench.run"
Number of Available Cores: 4
Available memory: 17.179869184 GB
Elixir 1.5.0
Erlang 19.0
Benchmark suite executing with the following configuration:
warmup: 2.00 s
time: 10.00 s
parallel: 1
inputs: none specified
Estimated total run time: 24.00 s
```

The Pragmatic Programmers

## Adopting Elixir

From Concept to Production



Ben Marx, José Valim, Bruce Tate  
edited by Jacquelyn Carter

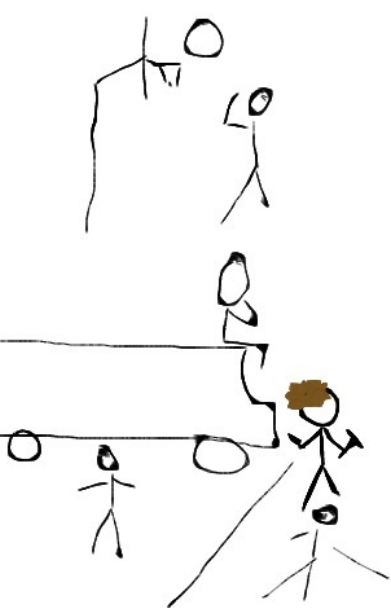
Your Elixir Source

# All Files (93.0% covered at 3322.59 hits/line)

SimpleCov

208 files in total. 6027 relevant lines. 5605 lines covered and 422 lines missed

Search: <input type="text"/>	File	% covered	Lines	Relevant Lines	Lines covered	Lines missed	Avg. Hits / Line
🔍	shoes-swift/lib/shoes/swift/text_block/painter.rb	100.0 %	33	16	16	0	113.7
🔍	shoes-swift/lib/shoes/swift/text_block/fitter.rb	100.0 %	220	100	100	0	1434.2
🔍	shoes-swift/lib/shoes/swift/text_block/cursor_painter.rb	100.0 %	54	30	30	0	3.0
🔍	shoes-swift/lib/shoes/swift/text_block/centered_text_segment.rb	100.0 %	24	9	9	0	1.2
🔍	shoes-swift/lib/shoes/swift/text_block.rb	100.0 %	161	89	89	0	1974.0
🔍	shoes-swift/lib/shoes/swift/swift_button.rb	100.0 %	56	33	33	0	54.8
🔍	shoes-swift/lib/shoes/swift/star.rb	100.0 %	30	20	20	0	24.8
🔍	shoes-swift/lib/shoes/swift/shoes_layout.rb	100.0 %	62	37	37	0	5214.6
🔍	shoes-swift/lib/shoes/swift/shape_painter.rb	100.0 %	26	12	12	0	6.0
🔍	shoes-swift/lib/shoes/swift/rect_painter.rb	100.0 %	43	25	25	0	16.8
🔍	shoes-swift/lib/shoes/swift/rect.rb	100.0 %	31	20	20	0	23.2
🔍	shoes-swift/lib/shoes/swift/radio.rb	100.0 %	28	12	12	0	18.8
🔍	shoes-swift/lib/shoes/swift/progress.rb	100.0 %	37	22	22	0	11.2
🔍	shoes-swift/lib/shoes/swift/oval.rb	100.0 %	33	19	19	0	26.5
🔍	shoes-swift/lib/shoes/swift/list_box.rb	100.0 %	55	33	33	0	23.3
🔍	shoes-swift/lib/shoes/swift/link_segment.rb	100.0 %	113	63	63	0	19.5
🔍	shoes-swift/lib/shoes/swift/line_painter.rb	100.0 %	18	9	9	0	4.1
🔍	shoes-swift/lib/shoes/swift/image_pattern.rb	100.0 %	37	19	19	0	2.7
🔍	shoes-swift/lib/shoes/swift/font.rb	100.0 %	42	21	21	0	308.3
🔍	shoes-swift/lib/shoes/swift/common/visibility.rb	100.0 %	19	8	8	0	734.1
🔍	shoes-swift/lib/shoes/swift/common/update_position.rb	100.0 %	21	8	8	0	86.0



# “legacy” OSS



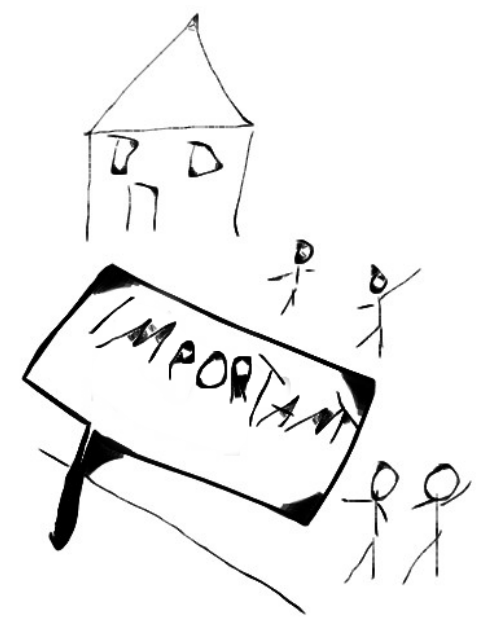


joy of impact





you don't owe people



# nightmares of integration





*First step into*  
OSS



Write

Preview

AA B i “ &lt;&gt; ↻ ☰ ☷ ↵ @ 📌 ↶

Howdy! Thanks for reporting an issue <3

Before you go ahead please search existing issues for your problem, chances are someone else already reported it.

To make sure that we can help you quickly please include and check the following information:

- \* Include how you run your tests and which testing framework or frameworks you are running.
  - please ensure you are requiring and starting SimpleCov before requiring any application code.
  - If running via rake, please ensure you are requiring SimpleCov at the top of your Rakefile For example, if running via RSpec, this would be at the top of your spec\_helper.
  - Have you tried using a `[.simplecov` file](https://github.com/colszowka/simplecov#using-simplecov-for-centralized-config)?`
- \* Include the SimpleCov version you are running in your report.
- \* If you are not running the latest version (please check), and you cannot update it, please specify in your report why you can't update to the latest version.
- \* Include your ``ruby -e "puts RUBY_DESCRIPTION"`.
- \* Please also specify the gem versions of Rails (if applicable).
- \* Include any other coverage gems you may be using and their versions.

Include as much sample code as you can to help us reproduce the issue. (Inline, repo link, or gist, are fine. A failing test would help the most.)

Attach files by dragging & dropping, selecting or pasting them. 

 Styling with Markdown is supported

[Submit new issue](#)

# Please report issues!

No one—assign yourself

Labels 

None yet

Projects 

None yet

Milestone 

No milestone

Linked pull requests

Successfully merging a pull request may close this issue.

None yet

Helpful resources

[Contributing](#)

[Code of conduct](#)

[GitHub Community Guidelines](#)



Write

Preview



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[Submit new issue](#)

# Be nice!

#### Assignees

No one—assign yourself

#### Labels



None yet

#### Projects



None yet

#### Milestone



No milestone

#### Linked pull requests

Successfully merging a pull request may close this issue.

None yet

#### Helpful resources

[Contributing](#)[Code of conduct](#)[GitHub Community Guidelines](#)

[Write](#)[Preview](#)

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Styling with Markdown is supported

[Submit new issue](#)

Be nice!

#### Assignees

No one—assign yourself

#### Labels



None yet

#### Projects

None yet

#### Milestone



No milestone

#### Linked pull requests

Successfully merging a pull request may close this issue.

None yet

#### Helpful resources

[Contributing](#)[Code of conduct](#)[GitHub Community Guidelines](#)

Minimize



Write

Preview

AA B i “ &lt;&gt; ↻ ☰ ☰ ☰ @ 📌 ↶

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 Styling with Markdown is supported

[Submit new issue](#)

# Be nice!

#### Assignees

No one—assign yourself

#### Labels



None yet

#### Projects

None yet

#### Milestone



No milestone

#### Linked pull requests

Successfully merging a pull request will automatically close this issue.

None yet

# Minimize

# Reproduce

#### Helpful resources

[Contributing](#)[Code of conduct](#)[GitHub Community Guidelines](#)



**ms-ati** commented 9 hours ago

Owner



Hi **@PragTob**, thanks for such a thorough and well-researched bug report! And such an appreciative and friendly tone 😊! I'll be happy to take a look and see if I can help





klyonrad commented on Jan 9 • edited ▾



That's another thing where you/we might discuss on how to actually *show* the coverage of methods.

Currently: when a file is loaded, all the `def method_name` lines are considered as a hit, the actual code in the method is shown as red **and** the closing of the method is also not considered as a hit (from the article)

Coverage was disabled for line number 7 as it contains just end keyword.

It always itched me that just declaring the method names are recorded as a hit or miss (except when nothing loads the file, which is the default for a rails project).

Anyway, that's maybe a distraction from the original topic...

**What exactly should be shown for the method coverage?** How does it affect the total big number of coverage a file/the project (that metric that we all care about). How do dynamically defined methods work with this? Playing devil's advocate: What does it even matter - I mean, what decisions would made knowing that a file has x amount of uncovered methods?



tycoon commented on Jan 9



In my experience, method coverage mostly helps finding unused methods that can be safely deleted in case you have 100% line (and probably branch) coverage.

For example you might have `attr_reader :foo, :bar` where only `:foo` is actually used. Or simply `attr_reader :bar` that is never used. In both cases only method coverage can find such stuff.



klyonrad commented on Jan 9



Wait a second, you can detect unused `attr_reader` methods? That's amazing! Thanks for clearing that up.

Then I would say that for an unused method the `def method_name` line should also stay red - even when the `LineCoverage` API reports it as covered

3 participants



🔒 Lock conversation

📌 Pin issue ⓘ

📁 Transfer issue

# Discuss!

# Add subprocess handling to simplecov #881

[Edit](#)

[Open](#) robotdana wants to merge 1 commit into [co1szowka:master](#) from [robotdana:dana/fork](#)

[Conversation](#) 14

[Commits](#) 1

[Checks](#) 7

[Files changed](#) 6



robotdana commented 5 hours ago

First-time contributor + 😊 ...

Using Process.fork (whether using the Parallel gem or directly) creates code that was invisible to SimpleCov. by starting SimpleCov within the subprocess with its own command name and etc we can see that code :)

This also adds documentation for what to do when using Process.spawn or similar.

fixes: [#414](#) and probably others

This seems the more correct place to fix this than my previous attempt here: [grosser/parallel#275](#)

Testing was a bit of a mess, perhaps you have some ideas, Also what are your thoughts on this being enabled by default or not?

Thanks :)

[Add subprocess handling to simplecov](#) ...

Verified ✗ 628978c



robotdana commented 5 hours ago

Author + 😊 ...

(I'm not clear why test 2.4.9 didn't work, it doesn't seem related?)



PragTob reviewed 3 hours ago

[View changes](#)

PragTob left a comment

Collaborator + 😊 ...

(Maybe) add a PR!

Reviewers



PragTob



Assignees



No one—assign yourself

Labels



None yet

Projects



None yet

Milestone



No milestone

Linked issues



Successfully merging this pull request may close these issues.

**Picking up coverage during fork**

Notifications

Customize

**Unsubscribe**

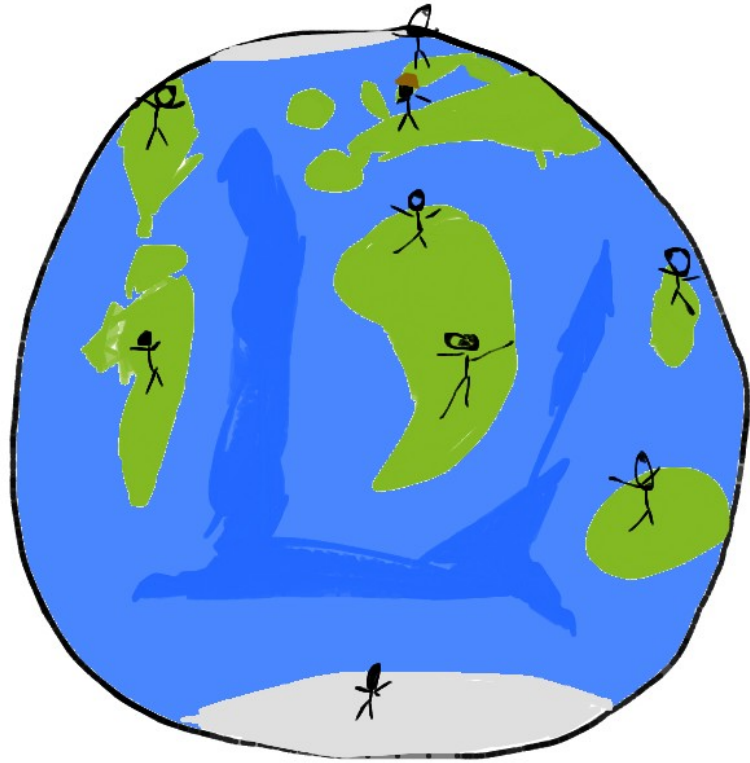
You're receiving notifications because you're watching this repository.

2 participants





OSS *vs* *Work*



Be nice!

OSS

Be nice!

OSS

Your OSS, your time

Be nice!

OSS

Your OSS, your time

Adoption takes time

seemingly even less diverse

OSS

seemingly even less diverse

OSS

is this sustainable?

seemingly even less diverse

OSS

is this sustainable?

what about people using OSS for “evil”?





friends



friends



friends



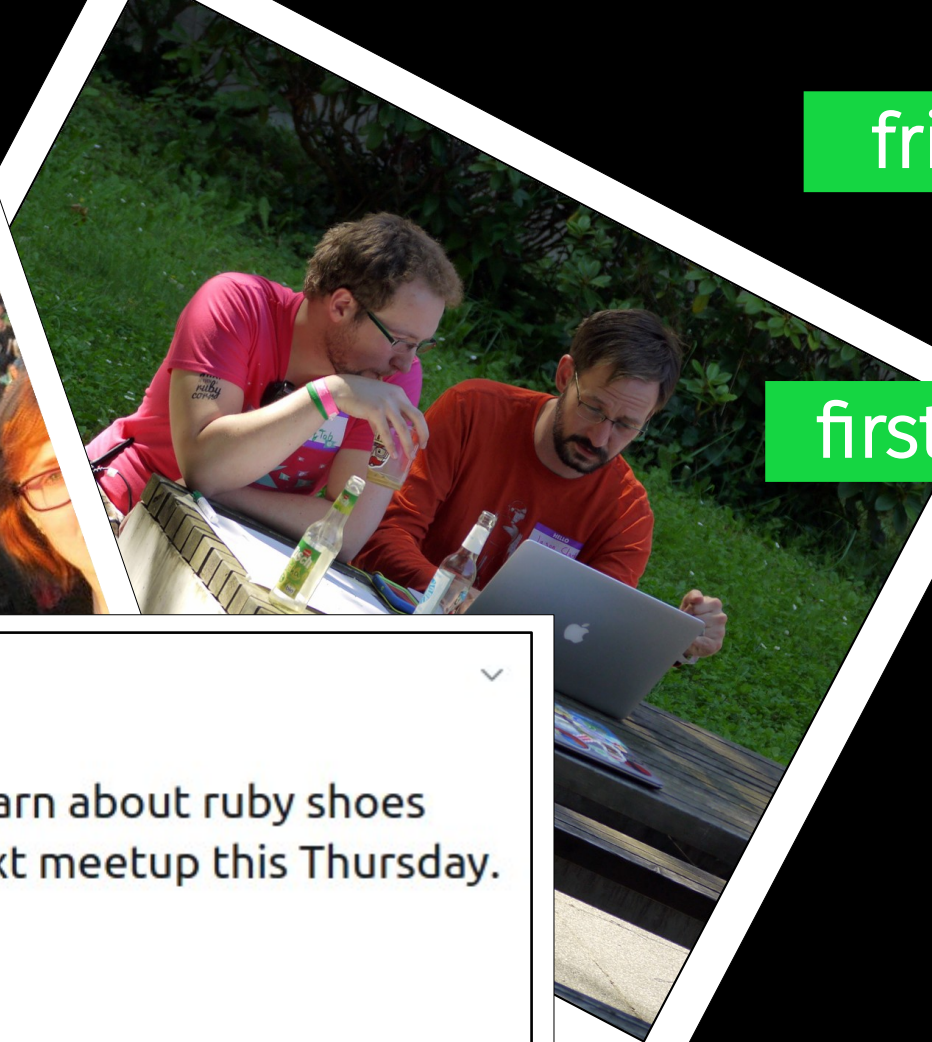


friends

first talks

friends

first talks



rug\_b  
@rug\_b

"try walking in my shoes" :) Learn about ruby shoes  
the Ruby GUI library at our next meetup this Thursday.  
[bit.ly/NZg8sD](http://bit.ly/NZg8sD)

3:30 PM · Jul 3, 2012 · Echofon

friends

first talks



rug\_b  
@rug\_b

"try walking  
the Ruby G  
[bit.ly/NZg8sD](http://bit.ly/NZg8sD)

3:30 PM · Jul 3, 2012 · Echofon





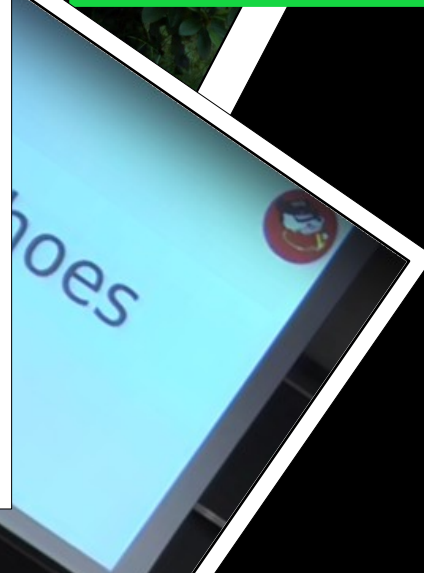
friends

first talks



"try w  
the Ru  
bit.ly/

3:30 PM · Jul 3, 2012 · Echofon







friends

first talks

learning



"try w  
the Ru  
bit.ly/

3:30 PM · Jul 3, 2012 · Echofon



friends

first talks

learning

all other projects



"try w  
the Ru  
bit.ly/

3:30 PM · Jul 3, 2012 · Echofon

friends

first talks

learning

all other projects

## THE NOT SO LOW COST OF CALLING DYNAMICALLY DEFINED METHODS

OCTOBER 20, 2015 | EDIT

There are a couple of mantras that exist across programming communities, one of them is to avoid duplication or to keep it DRY. Programming languages equip us with different tools to avoid duplication. In Ruby a popular way to achieve this is [Metaprogramming](#). Methods are dynamically defined to get rid of all duplication and we rejoice – Yay! There might be other problems with metaprogrammed solutions, but at least we are sure that the performance is the same as if we'd had written that duplicated code. Or are we?

As the title suggests this post examines the performance of these meta programmed methods. If you are looking for method definition performance or pure call overhead you'll find this information in [this post](#) by [Aaron Patterson](#).

Before we get into the details I want to quickly highlight that this is not some theoretical micro benchmark I pulled out of thin air. These examples are derived from performance improvements on an actual project. That work was done by my friend [Jason R. Clark](#) on [this pull request](#) over at [Shoes 4](#). As he doesn't have time to write it up – I get to, so let's get to it!

# I Shoes

the  
[bit.ly](#)

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A close-up photograph of a white lop rabbit with long, floppy ears. The rabbit is sitting on a wooden ledge, looking slightly to the right. In the background, another brown rabbit is partially visible. The setting appears to be a wooden cage or enclosure. There are two green text overlays: one at the top right and one at the bottom right.

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