

ruby FTW / Linuxtag 2021

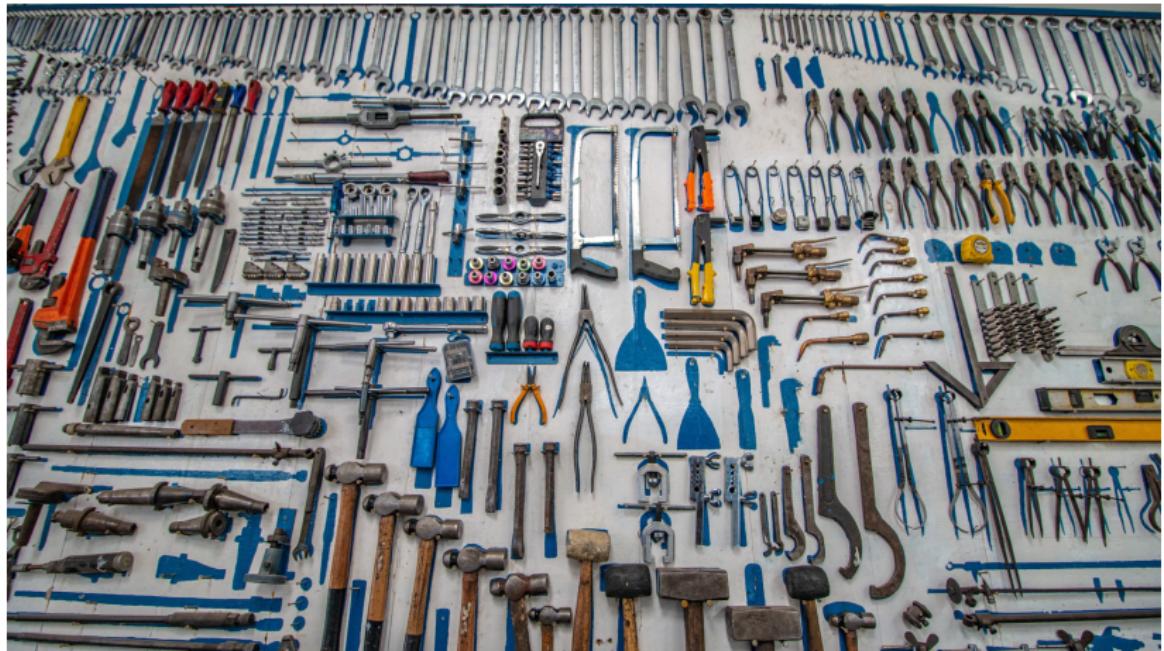
Christoph Lipautz

April 10, 2021

Lets say:

Programming Languages are (kind of) Tools

Tools FTW¹



¹https://unsplash.com/photos/NL_DF0KlepC

Learn a Programming Language Every Year²



²https://unsplash.com/photos/FwF_fKj5tBo

Me Reading Stuff



Overview of this Talk

- Why did I stick with Ruby for so many years?
- An Example dealing with Time (Code)
- Resources, Getting Started, More Code(?)
- Question and Answer Session

Ruby - Interpreted, Object Oriented³



Designed for Developer Happiness

³<https://www.ruby-lang.org/>

Hello World!

```
7.times { print "Hello World!\n" }
```

Hello World!!

```
7.times { print "Hello World!\n" }  
# Hello World!  
# Hello World!
```

Yukihiro “Matz” Matsumoto



A Welcoming Community

Matz is nice, so we are nice.

Expect Conventions and Best Practice, but no Strict Rules?⁴



⁴<https://unsplash.com/photos/cvQzH3npXT8>

Conventions?

```
# as convention: expect methods ending with ? to
# respond with a boolean
user.active?

a = [1, 2, 3]
a.member? 2 # true
```

Conventions!

```
a = [1, 2, 2]
a.uniq # [1, 2]
print a # [1, 2, 2]
```

*# as convention: expect methods with ! to do something
destructive (or dangerous)*

```
a.uniq! # [1, 2]
print a # [1, 2]
```

Everything is a File

Everything in Unix is a file.

Everything is a Object

Everything in Ruby is a object.

Everything is an Object

Everything in Ruby is an object.

Ruby in Action

```
users = User.where :created_at.gte => 3.days.ago
```

Timeless Project

A Word of Warning: Don't mess with primitives!⁵



⁵<https://unsplash.com/photos/QeYLUoIK1XY>

Resources

Where should I go now?

This Presentation at GitHub⁶

The screenshot shows a GitHub repository page for 'unused / ruby-ftw'. The repository has 1 branch and 1 commit. The code listing shows several files: 'coding-backup', 'coding-example', 'media', 'templates', '.gitignore', 'Makefile', 'README.md', 'q-and-a-session.md', 'slides-backup.rb', and 'slides.md'. The README.md file contains the text 'ruby FTW' and a brief description of the presentation. The repository has no releases or packages published. A language bar indicates Ruby (88.3%), Makefile (8.9%), and Tex (2.8%).

Code listing:

- coding-backup
- coding-example
- media
- templates
- .gitignore
- Makefile
- README.md
- q-and-a-session.md
- slides-backup.rb
- slides.md

README.md content:

ruby FTW

A biased presentation of the Ruby programming language.

Ruby is easy to read, understand and learn. Originating back to 1995 it has aged well and was recently published to version 3.0. The talk provides a basic introduction, discusses the language very goals and shows some nice examples.

Usage

```
$ make # generate slides
```

⁶<https://github.com/unused/ruby-ftw>

Try Ruby⁷

The screenshot shows a web browser window with the URL <https://try.ruby-lang.org>. The page displays a Ruby lesson titled "A Tally". The "Output" panel shows the result of the code execution, which is currently empty. The "Editor" panel contains the code: `5.times { print "odelay! " }`. The browser's address bar also lists other tabs: "TryRuby: Learn programs", "Ruby | Exercism", "Ruby on Rails Guides", and "RuboCop | The Ruby Linter".

A Tally

One of the amazing new things we've just used is a **block**. We're going to explore these more in this and the next lesson. But, basically, a block is a bit of Ruby code surrounded by curly braces.

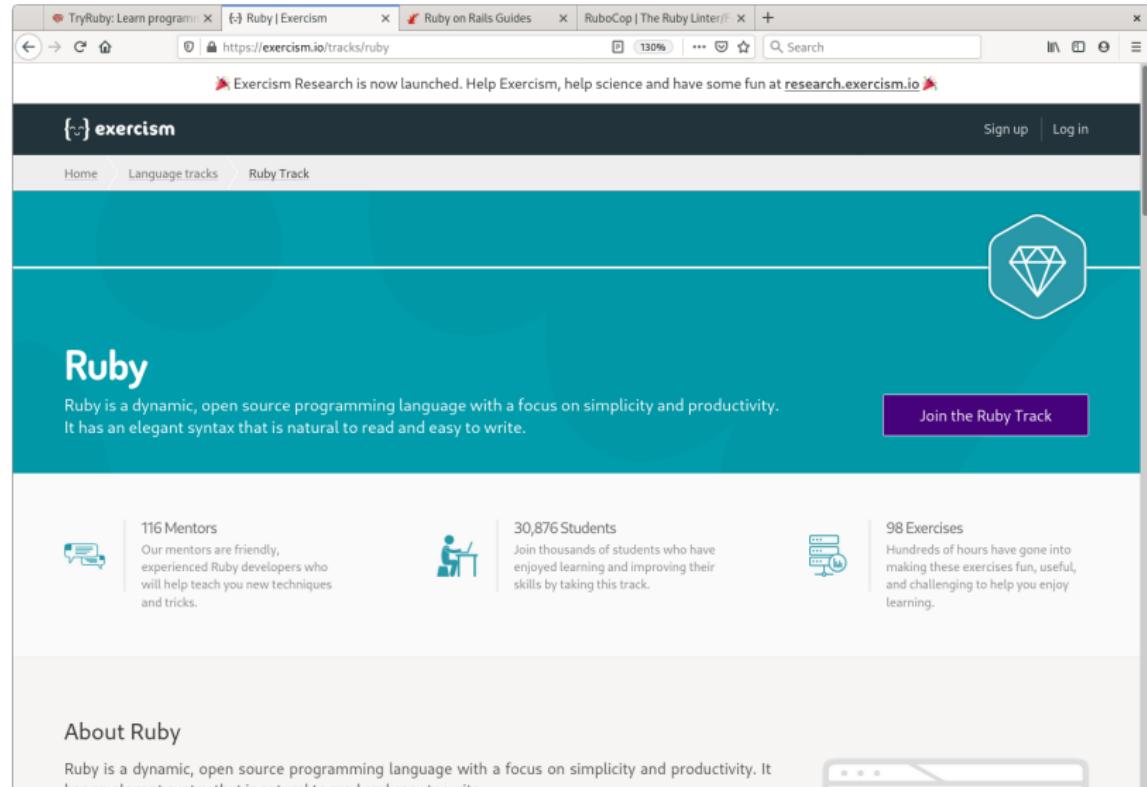
Let's try another block:

```
5.times { print "odelay! " }
```

Blocks are always attached to methods. Like the `times` method, which takes the block and runs the code over and over. (In our example: five times.)

⁷<https://try.ruby-lang.org/>

Join Exercism⁸



A screenshot of a web browser showing the Ruby track page on exercism.io. The browser has four tabs open: 'TryRuby: Learn programs...', 'Ruby | Exercism', 'Ruby on Rails Guides', and 'RuboCop | The Ruby Linter'. The main content area shows the 'Ruby' track page with a teal header. The header includes the 'exercism' logo, a 'Sign up' and 'Log in' button, and a navigation bar with 'Home', 'Language tracks', and 'Ruby Track'. To the right is a large teal section featuring a diamond icon in a hexagonal frame. Below this, a purple button says 'Join the Ruby Track'. The teal section contains text about Ruby being a dynamic, open source language with a focus on simplicity and productivity, and it has an 'elegant syntax that is natural to read and easy to write.' Below this are three boxes: one for '116 Mentors' (with a speech bubble icon), one for '30,876 Students' (with a person at a desk icon), and one for '98 Exercises' (with a server icon). At the bottom, there's a section titled 'About Ruby' with a brief description.

Ruby

Ruby is a dynamic, open source programming language with a focus on simplicity and productivity. It has an elegant syntax that is natural to read and easy to write.

Join the Ruby Track

116 Mentors
Our mentors are friendly, experienced Ruby developers who will help teach you new techniques and tricks.

30,876 Students
Join thousands of students who have enjoyed learning and improving their skills by taking this track.

98 Exercises
Hundreds of hours have gone into making these exercises fun, useful, and challenging to help you enjoy learning.

About Ruby

Ruby is a dynamic, open source programming language with a focus on simplicity and productivity. It

⁸<https://exercism.io/tracks/ruby>

Visit Rails Guides⁹

More at [rubyonrails.org](https://guides.rubyonrails.org): [Blog](#) | [Guides](#) | [API](#) | [Forum](#) | [Contribute on GitHub](#)

Rails Guides

Home Guides Index ▾ Contribute

Ruby on Rails Guides (v6.1.3.1)

These are the new guides for Rails 6.1 based on [v6.1.3.1](#). These guides are designed to make you immediately productive with Rails, and to help you understand how all of the pieces fit together.

The guides for earlier releases: [Rails 6.0](#), [Rails 5.2](#), [Rails 5.1](#), [Rails 5.0](#), [Rails 4.2](#), [Rails 4.1](#), [Rails 4.0](#), [Rails 3.2](#), [Rails 3.1](#), [Rails 3.0](#), and [Rails 2.3](#).

Start Here

[Getting Started with Rails](#)

Everything you need to know to install Rails and create your first application.

Models

[Active Record Basics](#)

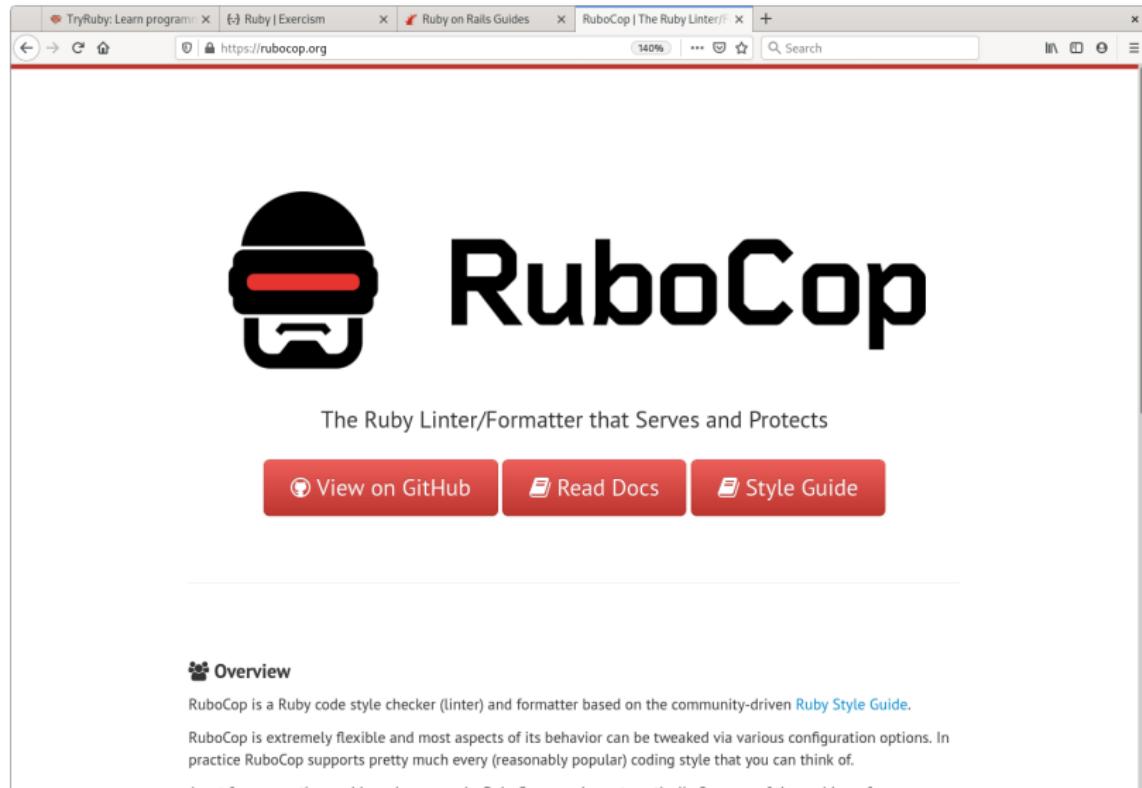
This guide will get you started with models, persistence to database, and the Active Record pattern and library

Rails Guides are also available for [Kindle](#).

Guides marked with this icon are currently being worked on and will not be available in the Guides Index menu. While still useful, they may contain incomplete information and even errors. You can help by reviewing them and posting your comments and corrections.

⁹<https://guides.rubyonrails.org/>

Run RuboCop¹⁰



The screenshot shows a web browser window with multiple tabs open. The active tab is 'RuboCop | The Ruby Linter' at <https://rubocop.org>. The page features a large black and white logo of a robot's head with a red horizontal bar for an eye. To the right of the logo, the word 'RuboCop' is written in a large, bold, sans-serif font. Below the logo and title, the text 'The Ruby Linter/Formatter that Serves and Protects' is displayed. At the bottom of the main content area, there are three red buttons with white text: 'View on GitHub', 'Read Docs', and 'Style Guide'. The footer contains a section titled 'Overview' with a brief description of RuboCop's purpose and flexibility.

The Ruby Linter/Formatter that Serves and Protects

[View on GitHub](#) [Read Docs](#) [Style Guide](#)

Overview

RuboCop is a Ruby code style checker (linter) and formatter based on the community-driven [Ruby Style Guide](#). RuboCop is extremely flexible and most aspects of its behavior can be tweaked via various configuration options. In practice RuboCop supports pretty much every (reasonably popular) coding style that you can think of.

¹⁰<https://rubocop.org/>

Slides, Code, Contact - Thanks a lot for Joining!!!

Christoph Lipautz

- @unused in #glt21 chat at IRC OFTC
- @unused at GitHub
- @lipdaguit on Twitter
- <https://github.com-unused/ruby-ftw>