# Policing ruby with RuboCop



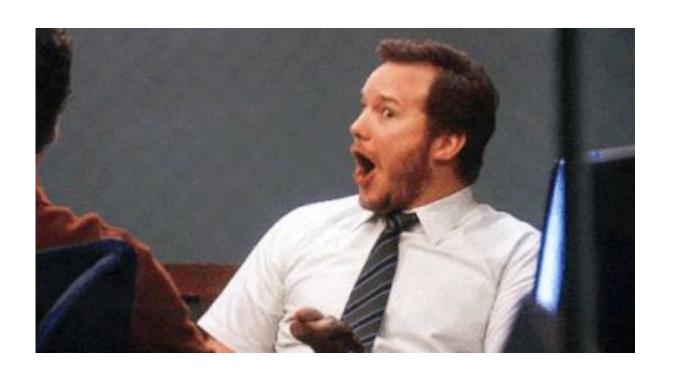
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### What if you could write a sloppy code and have ruby fix it for you automatically?



# RuboCop

- RuboCop is a Ruby code style checker (linter) and formatter based on the community-driven Ruby
   Style Guide.
- RuboCop is extremely flexible.
- In practice RuboCop supports pretty much every (reasonably popular) coding style that you can think of.

### Cops

Each individual check on RuboCop are defined as **cops**, and each one is responsible for detecting a specific offense.

- Style cops
- Layout cops
- Lint cops
- Metric cops
- Naming cops
- Security cops
- Bundler cops

# **Style Cops**

Detect code that works but does not meet a consistent style.

For example:

#### Puts if !test

### **Layout cops**

whitespace detected.

class TestRubocopController < ApplicationController</pre>

Catch issues related to formatting, such as the use of white space.

1 file inspected, 2 offenses detected, 2 offenses autocorrectable

#### For example:

def test

### **Lint cops**

Detect possible errors in your code that doesn't make sense and is probably wrong.

```
class TestRubocopController < ApplicationController
  def test(id)
    puts 'new'
  end
end</pre>
```

# **Metric cops**

Deals with issues related to source code measurements such as class length and method length.

```
def really_long_method_name_that_does_not_looks_good
   # Too many lines
```

# **Naming cops**

These cops are concerned with naming conventions.

```
def get_name
puts 'test'
end
```

# **Security cops**

Checks for implementations of the hash method which combine values using custom logic instead of delegating to Array#hash. They help with catching potential security issues.

### **Bundler cops**

Check for bad practices in Bundler files (such as Gemfile).

#### Example:

group :development do

### **Benefits:**

- You can **track silly errors quickly** without burrowing through many lines of the error stack
- You can aid your review process by smashing all the errors and style deficiencies before they get
  pushed to a remote branch. This helps to avoid warnings and complaints from your colleague with
  an eye for detail.

### **Installation & Configuration**

RuboCop's installation is pretty standard:

```
$ gem install rubocop
```

If you'd rather install RuboCop using bundler, add a line for it in your Gemfile (but set the require option to false, as it is a standalone tool):

```
gem 'rubocop', require: false
```

RuboCop can be configured through a .rubocop.yml file placed at the root of your project.

### **Usage:**

Running rubocop with no arguments will check all Ruby source files in the current directory:

\$ rubocop

Alternatively you can specify a list of files and directories to check:

\$ rubocop app spec lib/something.rb

You can auto-correct offenses with rubocop -a:

\$ rubocop -a

RuboCop can do way more. Use -h to view all available command-line options.

# **Suppressing Rubocop Errors**

Although RuboCop is great tool, it can yield false positives from time to time or suggest fixing the code in a way that is detrimental to the intent of the programmer.

You can mention the individual cops or departments to be disabled, as shown below:

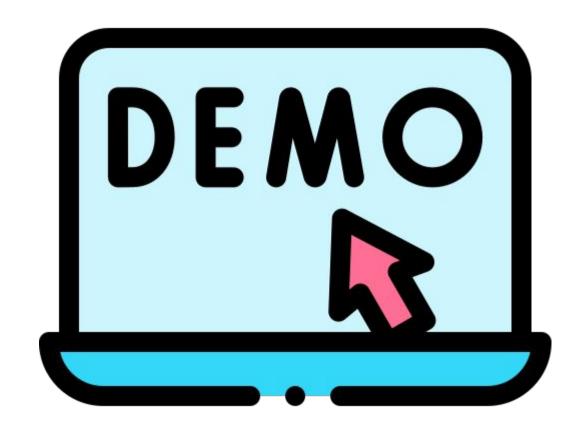
# rubocop:disable Layout/LineLength, Style

[..]

Or you can disable all cops for a section of the code in one fell swoop:

# rubocop:disable all

[..]



### **Conclusion**

RuboCop code brings **so many benefits to a code base**, especially in the context of a **team of developers**. Even if you don't like being told how to format your code, you need to keep in mind that **rubocop** isn't just for you.

It is also for the other people you collaborate with so that everyone can stick to the same conventions, thus eliminating the drawbacks of dealing with multiple coding styles in the same project.

### **Alternative Auto Formatters**

#### **Prettier**

Prettier started out as an opinionated code formatter for JavaScript, but it now supports many other languages, including Ruby.

#### RubyFmt

RubyFmt is a brand-new code formatter that's written in Rust and currently under active development.

# Any Questions?

### References

https://docs.rubocop.org/rubocop/index.html

https://www.honeybadger.io/blog/linting-formatting-ruby/

https://www.netguru.com/blog/how-rubocop-can-ease-your-code