Rubocop

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Lightning Talks!

Notices.

My words are not necessarily my employers'. Duh.

Tweet with **#rubocop** and it'll display up here.

Introduction

Rubocop is a Ruby static code analyzer, based on the community Ruby style guide.

Rubocop finds style errors.

- 139 Styles, 36 Lints, 8 Rails-specific, 7 Metrics
- ✓ Line length
- ✓ Unless With Else
- ✓ Trailing characters
- √ Hash syntax

Run it.

gem install rubocop

rubocop # warning: hard mode

Read it.

Inspecting 2924 files WCCC.C.C.W

Offences:

Library/brew.rb.4:17: C: StringLiterals: Prefer single-quoted strings when you don't need string interpolation or special symbols. std_trap = trap("INT") { exit! 130 } # no backtrace thanks

Library/brew.rb:15:1: C: SpecialGlobalVars: Prefer \$LOAD_PATH over \$:. unshift(HOMEBREW_LIBRARY_PATH + '/vendor')

Checks = "cops"

You can write them yourself!

Automatically fix some offenses

ibm-registration.rb:8:13: C: [Corrected] Use the new Ruby 1.9 hash syntax. uninstall:pkgutil => "com.ibm.IBM-Registration"

9 files inspected, 31 offenses detected, 12 offenses corrected

Output formats

Regular output is good enough for regular, daily use.

JSON for analytics. Dashboards.

Offenses List

rubocop -f offenses

15664 StringLiterals

3805 LineLength

3039 Documentation

2363 AlignParameters

taken from Homebrew rev cfc7042

Many more

```
-f, --format FORMATTER Choose an output formatter. This option can be specified multiple times to enable multiple formatters at the same time.

[p]rogress (default)

[s]imple
[c]lang
[e]macs
[j]son
[f]iles
[o]ffences
```

Automatically generated configuration

- ✓ Analyzes and builds config from least number of violations to greatest
- ✓ Disables everything it finds
- ✓ Uses sane defaults for others

TODO workflow

- ✓ Re-enable one cop
- √ Fix
- ✓ Commit
- ✓ Repeat

Guard

group :development do gem 'guard-rubocop' end

guard init rubocop

Guardfile

```
guard :rubocop do
  watch(/.+\.rb$/)
  watch(/(?:.+\)?\.rubocop\.yml$/) { |m| File.dirname(m[0]) }
end
```

(guard init rubocop does this for you!s)

Rake

require 'rubocop/rake_task'

RuboCop::RakeTask.new

New sheriff in town

- √ Cleanup is hard
- √ Focus on one area

Cui bono?

- ✓ Give new contributors a TODO list guide
- ✓ TODO list is in logical order of least work to most work.

Small wins to big, low-hanging fruit to orchards.

What's the benefit of this effort?

At the bark level,

Little style violations are removed. This isn't much more than bragging rights, but it's something to feel good about.

At the tree level,

Code may become more readable because of trivial refactoring necessary to satisfy some of the easier validations.

At the grove level,

Code may execute more price by because of refactoring necessary to satisfy some of the harder validations.

At the forest level,

- √ higher quality code
- ✓ guide for better contributions

This applies to all style checkers!

- √ ScalaCheck
- ✓ CheckStyle for Java
- √ pep8 for Python
- ✓ scan for Haskell
- ✓ ??? for Rust, Go, et al.

gem install rubocop

Thank you for your cooperation. Good night.



Yell at me.

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