RUBYCONF 2021
DENVER

All comments must be haiku!
Custom linting with RuboCop

Repo link

https://bit.ly/3H5t5Um

RUBYCONF 2021
DENVER

Who we are

Scott Moore

A software engineer with experience in full-stack web development, management, developer tooling, and test automation.

Kari Silva

Kari is currently a back-end engineer with full-stack experience in Ruby on Rails and React. In a former life, she was a high school science teacher so jumping into the tech world allows her love of teaching and learning to continue to thrive.

RUBYCONF 2021
DENVER

We both work at...

SonderMind

Building software to support virtual and in-person mental health care.

We are hiring.
https://www.sondermind.com/open-positions

RUBYCONF 2021
DENVER

Why would you write your own linter?

- Style and formatting rules unique to your team and codebase
- Examples:
  - No undocumented ENV variables
  - Database table-level comments
  - Enforce permission strings as format “admin.account.update”

RUBYCONF 2021
DENVER

What is RuboCop actually doing?

- https://github.com/whitequark/parser (parse source into AST)
- ruby-parse (utility)
- A bunch of tools to make it easier to work with the above
- Much more, but this is the basic idea

RUBYCONF 2021
DENVER

Abstract Syntax Trees

A structured representation of source code as a tree.

Lexer/scanner reads source code into tokens, then parser organizes the tokens into a tree that reflects the relationship between the tokens.

This lets us programmatically work with those tokens and relationships.

Abstract Syntax Trees

```
def hello_rubyconf
  puts 'hello'
  puts 'rubyconf'
end
```

```
(def :hello_rubyconf
  (args)
  (begin
    (send nil :puts
      (send nil :“hello”))
    (send nil :puts
      (send nil :“rubyconf”))))
```

RUBYCONF 2021
DENVER

Abstract Syntax Trees

```
(def :hello_rubyconf
  (args)
  (begin
    (send nil :puts
      (send nil :“hello”))
    (send nil :puts
      (send nil :“rubyconf”))))
```

If this is what we got for a small method, it’s going to be tough to walk through our whole code base and enforce our rules.

RuboCop provides the tools to make that easier.

RUBYCONF 2021

DENVER