

# **Coding Conventions in Ruby**

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What is coding conventions?

# Coding Conventions

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- A set of guidelines
- for specific programming languages
- recommend programming styles, practices and methods

# What does it cover?

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- file organization
- indentation
- comments
- declarations
- statements

# What does it cover? (cont'd)

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- white space
- naming conventions
- practices & principles
- architectural
- etc

Coding conventions may be applied to  
**organization, specific project** or  
**specific product**

# Benefits

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- Improve readability
- Make software maintenance easier

# Rationale

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- 40-80% of the lifetime cost of a piece of software **goes to maintenance**
- Hardly any software is maintained for its whole life by the original author



# Rationale (cont'd)

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- Code conventions **improve the readability** of the software, allowing engineers to understand new code more quickly and thoroughly
- If you ship your source code as a product, you need to make sure it is as well packaged and clean as any other product you create

Conventions may be formalized in a documented set of rules or may be as informal as the habitual coding practices of an individual

# Ruby Style Guide

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Ruby has coding conventions document called the **Ruby Style Guide** that serve as a generic reference for Ruby programmer

[github.com/bbatsov/ruby-style-guide](https://github.com/bbatsov/ruby-style-guide)

# RuboCop

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Ruby also has interesting software to enforce coding convention called  
**RuboCop**

# Installing RuboCop

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```
% gem install rubocop
```

# Using RuboCop

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```
% rubocop <file-name>
```

# Default Style Guide

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By default, RuboCop use the ruby style guide as the default configuration

# Custom Style Guide

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If you want to customize the style guide, you can create a **.rubocop.yml** in the same directory where you run rubocop



# Custom Style Guide

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You can use following default configuration file of RuboCop as reference to create `.rubocop.yml`

[github.com/bbatsov/rubocop/blob/master/config/default.yml](https://github.com/bbatsov/rubocop/blob/master/config/default.yml)

# Custom Style Guide

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Consult the following url for more info about configuration

[rubocop.readthedocs.io/en/latest/configuration](https://rubocop.readthedocs.io/en/latest/configuration)

# Exercise

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Implement a custom **.rubocop.yml** configuration file according to your organization convention

Thanks