The Ruby Style Guide

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Source Code Layout

- · Use UTF-8 as the source file encoding.
- Use two spaces per indentation level. 2格缩进。
- · Use Unix-style line endings.
- Use spaces around operators, after commas, colons and semicolons, around { and before }.

The only exception is when using the exponent operator:

```
# bad
e = M * c ** 2
# good
e = M * c**2
```

- Indent when as deep as case. when和case缩进相同。
- Use empty lines between defs and to break up a method into logical paragraphs. 函数之间用空行分割。
- Use RDoc and its conventions for API documentation. Don't put an empty line between the comment block and the def. 使用标准的RDoc格式注释。
- Keep lines fewer than 120 characters. 每行不多余120个字符。
- · Avoid trailing whitespace. 行尾不要有空格。

Syntax

- Use def with parentheses when there are arguments. Omit the parentheses when the method doesn't accept any arguments. 使用def声明函数时,如果有参数,则加上括号 () ,如果没有参数,则省略括号。
- 使用迭代器代替for语句。
- Use &&/II for boolean expressions, and/or for control flow. (Rule of thumb: If you have to use outer parentheses, you are using the wrong operators.)
- Avoid multi-line ?: (the ternary operator), use if/unless instead. 避免三元运算符(?:)
 被分成多行。

Favor modifier if/unless usage when you have a single-line body. Another good
alternative is the usage of control flowand/or. 当if/unless只有一行的时候, 优先使用修饰符。

- Favor unless over if for negative conditions (or control flow or). unless优先于if not.
- Never use unless with else. Rewrite these with the positive case first. unless不要和else
 一起使用。
- Omit parentheses around parameters for methods that are part of an internal DSL (e.g. Rake, Rails, RSpec), methods that are with "keyword" status in Ruby (e.g. attr_reader, puts) and attribute access methods. Use parentheses around the arguments of all other method invocations. 函数调用要加括号,除了前面的几种情况。
- Prefer {...} over do...end for single-line blocks. Avoid using {...} for multi-line blocks
 (multiline chaining is always ugly). Always use do...end for "control flow" and "method
 definitions" (e.g. in Rakefiles and certain DSLs). Avoid do...end when chaining. 单行block
 用{}, 多行用do...end。
- Avoid return where not required. 避免不必要的return。
- Use II= freely to initialize variables. 使用II=运算来初始化变量。
- Don't use II= to initialize boolean variables. 不要用II=来初始化布尔变量。
- Never put a space between a method name and the opening parenthesis. 函数名和后面的括号之间严禁添加空格!
- Always run the Ruby interpreter with the -w option so it will warn you if you forget either
 of the rules above!

Naming

- Use snake_case for methods and variables. 变量名和函数名用小写加下划线。
- Use CamelCase for classes and modules. 类名和模块名用驼峰格式。
- Use SCREAMING SNAKE CASE for other constants. 常量用全大写加下划线。

 The names of predicate methods (methods that return a boolean value) should end in a question mark. (i.e. Array#empty?).

- The names of potentially "dangerous" methods (i.e. methods that modify self or the arguments, exit!, etc.) should end with an exclamation mark.
- When using reduce with short blocks, name the arguments la, el (accumulator, element).
- Prefer map over collect, find over detect, select over find_all, reduce over inject and size over length.

Annotations

- Annotations should usually be written on the line immediately above the relevant code.
 注解在所注解的代码上面
- The annotation keyword is followed by a colon and a space, then a note describing the problem. 注解关键字后面跟随一个冒号和一个空格。
- If multiple lines are required to describe the problem, subsequent lines should be indented two spaces after the #.
- Use TODO to note missing features or functionality that should be added at a later date.
- Use FIXME to note broken code that needs to be fixed.
- Use OPTIMIZE to note slow or inefficient code that may cause performance problems.
- Use HACK to note code smells where questionable coding practices were used and should be refactored away.
- Use REVIEW to note anything that should be looked at to confirm it is working as intended. For example:REVIEW: Are we sure this is how the client does X currently?

Classes

- Always supply a proper to s method for classes that represent domain objects.
- Use the attr family of functions to define trivial accessors or mutators. 使用attr系列函数来 定义成员变量的访问属性。
- Prefer <u>duck-typing</u> over inheritance. 使用duck-typing代替继承。

 Avoid the usage of class (@@) variables due to their "nasty" behavior in inheritance.避免 使用类变量。

 Use def self.method to define singleton methods. This makes the methods more resistant to refactoring changes.

Exceptions

- · Don't suppress exceptions.
- Don't use exceptions for flow of control. 不要使用异常来控制流程。
- Avoid rescuing the Exception class. 不要捕获Exception。

Collections

- Prefer %w to the literal array syntax when you need an array of strings.
- Use symbols instead of strings as hash keys. 使用symbols作为hash的key。
- Avoid the use of mutable object as hash keys. 避免使用可变的实例作为hash的key。

Strings

- Prefer string interpolation instead of string concatenation。使用字符串 interpolation来代 替字符串连接。
- Prefer single-quoted strings when you don't need string interpolation or special symbols such as \t, \n, ', etc.
- Avoid using String#+ when you need to construct large data chunks. Instead, use
 String#<<. Concatenation mutates the string instance in-place and is always faster than
 String#+, which creates a bunch of new string objects. 在构造大数据块的时候,使用
 String#<<代替String#+。

Percent Literals

Use %w freely.

STATES=%w(draft open closed)

• Use %r only for regular expressions matching more than one '/' character.

• Prefer () as delimiters for all % literals.

Misc

 Avoid methods longer than 10 LOC (lines of code). Ideally, most methods will be shorter than 5 LOC. Empty lines do not contribute to the relevant LOC.

- Avoid parameter lists longer than three or four parameters. 避免参数超过4个。
- · Avoid alias when alias_method will do.
- · Avoid more than three levels of block nesting. 块嵌套不要超过三层。