Luigi De Russis

### Gems and conventions





2

# RubyGems

### What is a gem?

- A RubyGem is a software package
  - commonly called a "gem"
- Gems contain a packaged Ruby application or library
- The RubyGems software itself allows you to easily download, install and manipulate gems on your system
- Each gem has a name, version, and platform

### What is a gem?

- Gems can be used to extend or modify functionality within a Ruby application
  - they are used to split out reusable functionality that other can use in their applications as well
  - some gem also provide command line utilities to help automate tasks and speed up your work
- Gems can include C extension
- Since Ruby 1.9.2, RubyGems is included when you install the programming language

- gem update
  - update installed gems to the latest version
- gem update --system
  - update the RubyGems system software
- gem install/uninstall GEMNAME
  - install/uninstall one or more gems from the local repository
- gem check [GEMNAME...]
  - check a gem repository for added or missing files
- gem cleanup [GEMNAME...]
  - clean up old versions of installed gems in the local repository
- gem environment
  - display information about the RubyGems environment
- gem list
  - display installed gems

## Ruby code conventions

# Code readability

### Conventions from the field...

- □ Two spaces per indent
- One statement per line
  - keep lines fewer than 80 characters
- Use spaces around operators, after commas, colons and semicolons, around { and before }
- No spaces
  - after (, [ or before ), ]
  - □ after !
- Use empty lines between defs and to break up a method into logical paragraphs

### Conventions from the field...

- Typically single line comments are used
  - everything that follows #
- Use parentheses in method when there are arguments
  - omit the parentheses when the method does not accept any arguments
  - exceptions: puts, and control statements
- each is preferred over for
- Never use then for multi-line if/unless
- Never use unless with else
- □ Prefer {...} over do...end for single-line blocks
- □ Avoid using {...} for multi-line blocks
- Always use do...end for control flow and method definition

### Conventions from the field...

- Avoid return when not required
- Never put a space between a method name and the opening parenthesis
- □ Use snake case for methods and variables
- □ Use CamelCase for classes and modules
  - keep acronyms (like HTTP) in the original case
- □ Use SCREAMING SNAKE CASE for other constants
- Avoid the usage of class variables (@@)
- Prefer string interpolation instead of string concatenation
- Prefer double-quoted strings

#### License



- This work is licensed under the Creative Commons "Attribution-NonCommercial-ShareAlike Unported (CC BY-NC-SA 3,0)" License.
- You are free:
  - □ to Share to copy, distribute and transmit the work
  - □ to Remix to adapt the work
- Under the following conditions:
- Attribution You must attribute the work in the manner specified by the author or licensor (but not in any way that suggests that they endorse you or your use of the work).
  - □ Noncommercial You may not use this work for commercial purposes.
  - Share Alike If you alter, transform, or build upon this work, you may distribute the resulting work only under the same or similar license to this one.
  - □ To view a copy of this license, visit <a href="http://creativecommons.org/licenses/by-nc-sa/3.0/">http://creativecommons.org/licenses/by-nc-sa/3.0/</a>