RubyGems Ruby package manager

CONCEPTS

gem installs gems machine-wide. For a project, list them in a Gemfile and use bundle (see Bundler) so everyone gets the same versions.

Gemspec your gem's metadata
↓ `gem build`
.gem file packaged archive
↓ `gem push`
rubygems.org the default source
↓ `gem install`
GEM_HOME installed gems
↓ `require`
Your Ruby code

Without write access to the system Ruby, gem install fails with a permissions error. Use --user-install, or a Ruby version manager that keeps gems in your home.

INSTALL

`gem install <gem>`
Install the latest version

`gem install <gem> -v "~> 1.2"`
Install a version matching a constraint

`gem install <gem> --user-install`
Install into your home directory

`gem install <gem> --no-document`
Skip generating docs (much faster)

`gem install <gem> --prerelease`
Allow prerelease versions

`gem install <gem> -s <url>`
Fetch from another source

`gem install <name>.gem`
Install a local .gem file

LIST & SEARCH

`gem list`
List installed gems

`gem list <regexp>`
Filter installed gems by name

LIST & SEARCH (cont.)

`gem list <gem> -i`
Is it installed? Prints true or false

`gem search <regexp>`
Search remote gems by name

`gem search <regexp> -ae`
Exact name, all versions

`gem info <gem>`
Version, license, homepage, install path

`gem contents <gem>`
List an installed gem's files

`gem which <file>`
Path of a requireable file

`gem dependency <gem>`
Show a gem's dependencies

UPDATE & REMOVE

`gem outdated`
List gems with newer versions

`gem update`
Update all installed gems

`gem update <gem>`
Update one gem

`gem update --system`
Update RubyGems itself

`gem uninstall <gem>`
Remove a gem

`gem uninstall <gem> -v <version>`
Remove one version

`gem uninstall <gem> -a`
Remove all versions without asking

`gem cleanup`
Remove old versions of gems

`gem cleanup -n`
Dry run: show what would go

SOURCES

`gem sources`
Show configured sources

`gem sources -a <url>`
Add a source

`gem sources -r <url>`
Remove a source

BUILD & PUBLISH

`gem build <name>.gemspec`
Package a gem into a .gem file

`gem signin`
Sign in and store an API key

`gem push <name>-<version>.gem`
Upload a gem to rubygems.org

`gem push <file> --otp <code>`
Push with a one-time MFA code

`gem yank <gem> -v <version>`
Pull a pushed version from the index

`gem open <gem>`
Open a gem's source in your editor

ENVIRONMENT

`gem env`
Show RubyGems configuration

`gem env home`
Where gems are installed

`gem env gempath`
All directories searched for gems

`gem env version`
RubyGems version

`gem --version`
Print the RubyGems version

`gem help <command>`
Help for one command

`gem help commands`
List every command

Version constraints (-v)

Constraint	Meaning
`"1.2.3"`	exactly 1.2.3
`"⩾ 1.2"`	1.2 or newer
`"~> 1.2"`	1.2 up to below 2.0
`"~> 1.2.3"`	1.2.3 up to below 1.3
`"< 2"`	anything below 2

RECIPES

Install without docs, per user

```
gem install <gem> --user-install
--no-document
# put the user bin dir on PATH
gem env gempath
```

Publish a gem

```
gem build <name>.gemspec
gem signin
gem push <name>-<version>.gem
```