



Gems

Gems

Packaged code containing a library or program in
Ruby

RubyGems

- Gem Management System
- Integrated in Ruby since version 1.9
- Provides the command line tool 'gem'

RubyGems

Gem Search

\$ gem search gem_name

Gem Install

\$ gem install gem_name

List all installed gems

\$ gem list

Gem Uninstall

\$ gem uninstall gem_name

Using Gems

- Some gems create command line binaries
- Others simply provide a library that can be imported
- To load the libraries ruby provides the require method

```
require 'gemname'
```

- In Ruby versions below 1.9 you first need to require ruby gems

```
require 'rubygems'
```



Bob

- Developer
- Blood Type: A+
- Zodiac sign: Aries
- Favourite movie: Novecento
- Ruby: 1.9.2
- Sinatra: 1.4.5

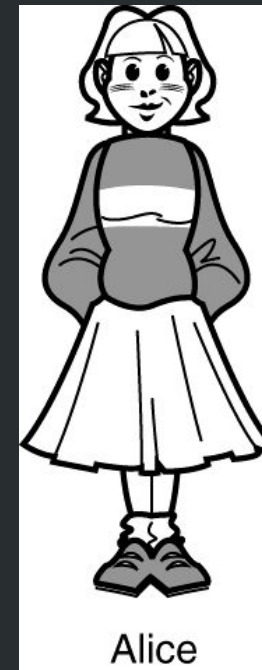


Alice

- Developer
- Blood Type: O
- Zodiac Sign: Gemini
- Favourite movie: Trainspotting
- Ruby: 2.1.2
- Sinatra: 1.0.2



Bob



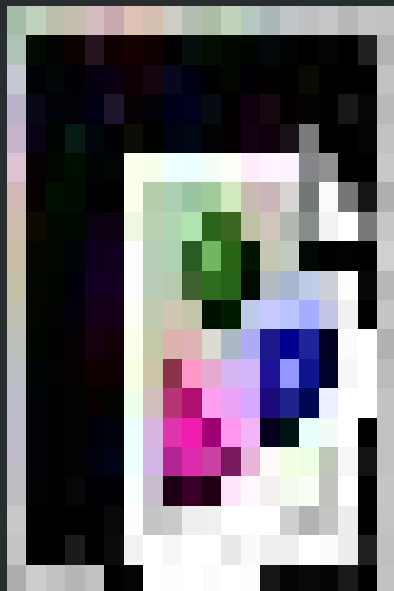
Alice

```
require 'sinatra'
```

```
get '/' do
```

```
  sinatra.the_erratic_method
```

```
end
```



Bundler

```
gem install bundler
```



Gemfile

```
source 'https://rubygems.org'
```

```
gem 'imdb'
```

Bundle install

bundle install

You need to bundle install in the directory where the Gemfile is

Gemfile.lock

GEM

```
remote: https://rubygems.org/  
specs:  
  imdb (0.8.2)  
    nokogiri (= 1.6.2.1)  
  mini_portile (0.6.0)  
  nokogiri (1.6.2.1)  
    mini_portile (= 0.6.0)
```

PLATFORMS

```
ruby
```

DEPENDENCIES

```
imdb
```

Marking specific versions

```
source 'https://rubygems.org'
```

```
gem 'imdb'
```

```
gem 'pry', '0.10.0'
```

```
bundle install
```

Wildcards in version numbers

```
source 'https://rubygems.org'
```

```
gem 'imdb'
```

```
gem 'pry', '~> 0.10.0'
```

```
bundle update pry
```

```
Using slop 3.6.0
```

```
Using pry 0.10.1 (was 0.10.0)
```

```
Using bundler 1.6.3
```



Grouping

```
source 'https://rubygems.org'
```

```
gem 'imdb'
```

```
group :development do  
  gem 'pry', '~> 0.10.0'  
end
```

```
group :production do  
  gem 'therubyracer'  
end
```

```
group :test do  
  gem 'rspec'  
end
```

Bundle exec

- In case you are using RVM it is automatically included for you
- If not, you need to prepend 'bundle exec' to all ruby commands you run in the project folder to use bundled ruby gems

Bundle open

```
EDITOR=subl bundle open pry
```

Classical project structure

```
.  
├── Gemfile  
├── Gemfile.lock  
├── lib  
│   └── my_program.rb  
└── spec
```

Discovering Gems

- RubyGems is not really useful to discover new Gems
- Github and Google are your friends!

<https://www.ruby-toolbox.com>