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'

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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
```

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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'
```

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- Developer

- Blood Type: A+

- Zodiac sign: Aries

- Favourite movie: Novecento

- Ruby: 1.9.2

- Sinatra: 1.4.5

Bob

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- Developer

- Blood Type: O

- Zodiac Sign: Gemini

- Favourite movie: Trainspotting

- Ruby: 2.1.2

- Sinatra: 1.0.2

Alice

```ruby
require 'sinatra'

get '/' do
  sinatra.the_erratic_method
end
```

Bundler

`gem install bundler`

The best way to manage your application's dependencies
Bundler

Gemfile

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

gem 'imdb'
```

Bundle install

bundle install

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

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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
```

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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
```

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Grouping

```ruby
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

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Bundle open

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

Classical project structure

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

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Discovering Gems

- RubyGems is not really useful to discover new Gems

- Github and Google are your friends!

https://www.ruby-toolbox.com

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