Ruby Week 6



Mid-Term

- Due Next Week!
- Don't wait until the last minute!!
- Send me your SSH Key

Project

- Make a Gem!
- Source on Github
- Gem Released on RubyGems.org
- Full Documentation and Tests
- OSS License of your choice
- Tested on Travis CI

Topics

- Whatever you want! (It has to do something!)
- Suggestions:
 - Calculations (unit conversions, physics helper, etc...)
 - Games (game of life, battleship, tictac-toe, sudoku solver etc..)
 - DSL, Programing helper, etc...

Project

- Due the Last Day of Class
- Demo the gem in-class



Ruby Gems



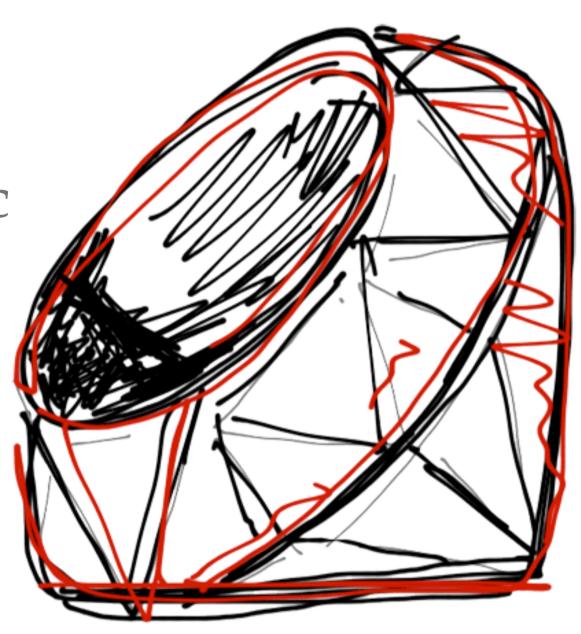
- Packaged Ruby Code
- Available for Everyone!
- DRY

Gem Structure

test_gem.gemspec

- lib

test_gem.rb



GemSp

```
Gem::Specification.new do |s|
               = 'test gem'
 s.name
            = '0.0.0'
 s.version
             = '2012-11-13'
 s.date
               = "Making a Test Ger
 s.summary
 s.description = "A gem to explain
 s.authors
               = ["Renée De Voursne
           = '<u>renee@nird.us</u>'
 s.email
               = 'http://rubygems.org/gems/test_gem'
 s.homepage
               = ["lib/test gem.rb"]
 s.files
end
```

Building Your Gem

\$ gem build test_gem.gemspec

Successfully built RubyGem

Name: test_gem

Jarcian: 0.0.0

st_gem-0.0.0.gem

Installing Your Gem

\$ gem install test_gem-0.0.0.gem

Successfully installed test_gem-0.0.0

1 gem installed

Installing ri documentation for test_gem-0.0.0...

Installing RDoc documentation for test_gem-0.0.0...

RubyGems.org

- Setup an Account:
 - https://rubygems.org/users/new
- Setup Credentials:
 - API Access:
 - https://rubygems.org/profile/edit

Releasing Your Gem

\$ gem push test_gem-0.0.0.gem

Pushing gem to RubyGems.org...

Successfully registered gem: test_gem (0.0.0)

Viewing Remote Gems

\$ gem list -r test_gem

*** REMOTE GEMS ***

test_gem (0.0.0)

Installing a Gem

\$ gem install test_gem

Fetching: test_gem-0.0.0.gem (100%)

Successfully installed test_gem-0.0.0

1 gem installed

Installing ri documentation for test_gem-0.0.0...

Installing RDoc documentation for test_gem-0.1.0...

Adding CLI

- Command Line Interface
- Structure
 - bin
 - test_gem
- SheBang (Sharp Bang, Shell Bang): #!/usr/bin/env ruby
- Spec: s.executables << 'test_gem'

Arguments

- Constant Array:
 - ARGV

Testing!

- spec
 - test_gem_spec.rb
- RakeFile
- .rspec

Rakefile

Testing Task:

require 'rspec/core/rake_task'

RSpec::Core::RakeTask.new('spec')

task :default => :spec

.rspec

- --color
- --format documentation

Gem Frame Works

- Jeweler
- Gem Release
- Hoe
- Rake
- Bundler

Continuous Integration

- Git Hook
- Manages Different Environments
- Testing Cycle

Travis CI

- Free CI for Open Source
- Easy
- Fast
- Fun!



Github Hook

- Admin
- Service Hooks
- Travis
 - Copy and Paste Token

.travis.yml

language: ruby

rvm:

- 1.8.7

- 1.9.2

- 1.9.3

- jruby-18mode

- jruby-19mode

riby had

ReadMe Graphic

Build Status:

```
{<img src="https://secure.travis-
ci.org/reneedv/elucidate.png" />}
[http://travis-ci.org/reneedv/elucidate]
```

HomeWork

- Release a test gem to RubyGems.org
- E-mail me your project idea