

Mothering your Packages

Friday, February 10, 12

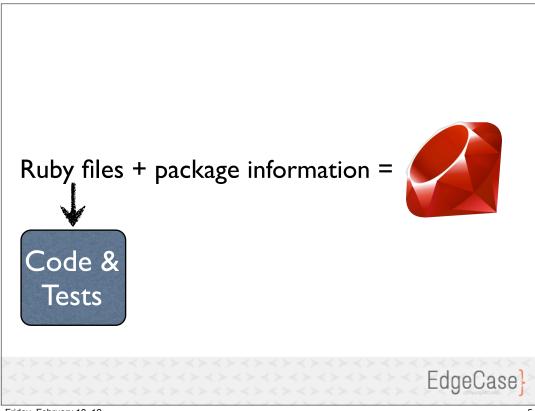
A package manager for distributing Ruby programs.

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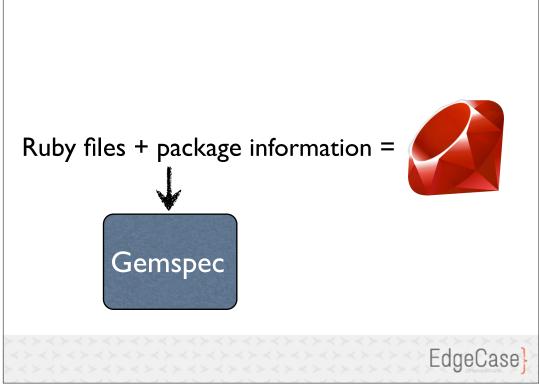


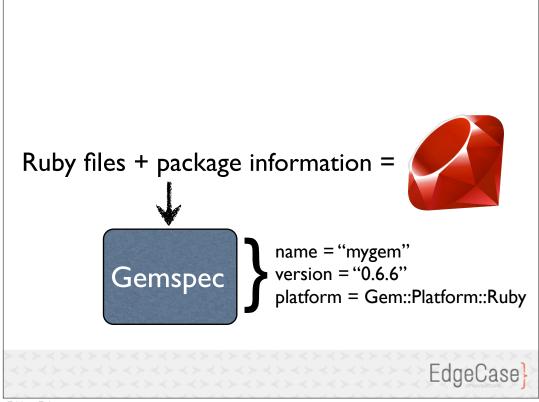
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> gem

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> gem sources

```
/ ~ gem sources
*** CURRENT SOURCES ***
http://gemcutter.org/
http://rubygems.org/
```

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> gem install

```
/ ~ gem install nyan-cat-formatter
Successfully installed nyan-cat-formatter-0.0.6
1 gem installed
```

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NYAN CAT!

```
gems/nyan-cat-formatter-0.0.6 ~ rspec --format NyanCatFormatter

17/17: -_-_-__, -----,

17/17: -_-_-_-, /\_/\

0/17: -_-_-_-\| /\_/\

17/17: -_-_---- "" ""

Nyan Cat flew 1.8 seconds

17 examples, 0 failures

gems/nyan-cat-formatter-0.0.6 ~ []

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```

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> gem list

```
/ ~ gem list

*** LOCAL GEMS ***

actionmailer (3.1.3, 3.1.1)
actionpack (3.1.3, 3.1.1)
activemodel (3.1.3, 3.1.1)
activerecord (3.1.3, 3.1.1)
activeresource (3.1.3, 3.1.1)
activesupport (3.1.3, 3.1.1)
addressable (2.2.6)
(... and on and on ...)
```

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> gem list | grep 'nyan'

Please, for the love of nyan cat, be smarter than this.

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1.9

> gem search

```
/ ~ gem search nyan

*** LOCAL GEMS ***

nyan-cat-formatter (0.0.6)
```

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> gem search --remote

```
/ ~ gem search nyan --remote

*** REMOTE GEMS ***

bunyan (0.5.1 ruby)

nyan (0.0.4 ruby)

nyan-cat-formatter (0.0.6 ruby)

nyancat (0.0.3 ruby)
```

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> gem uninstall

/ ~ gem uninstall nyan-cat-formatter Successfully uninstalled nyan-cat-formatter-0.0.6

(Goodbye, nyan cat.)

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... but how does the RubyGems library work?

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Anatomy of a Gem

```
/~ tree ./nyan-cat-formatter-0.0.6

— Gemfile

— LICENSE.md

— README.md

— Rakefile

— lib

| — nyan_cat_formatter.rb

| — rspec1.rb

| — rspec2.rb

— nyan-cat-formatter.gemspec

— spec

— myan_cat_formatter_spec.rb

— spec_helper.rb

2 directories, 10 files
```

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/lib directory

```
tree ./nyan-cat-formatter-0.0.6
- Gemfile
                                       NyanCatFormatter = Class.new(parent_class) do
                                                  = "#{ESC}0m"
                                         PASS
                                        PASS_ARY = ['-', '_']
FAIL = '*'
ERROR = '!'
                                         PENDING = '+'
 __ nyun_eue_
__ spec_helper.rb
                                         include rspec_module
                                         attr_reader :current, :example_results, :color_index, :pending_count,
                                                      :failure_count, :example_count
                                         # Increments the example count and displays the current progress
                                         # @returns nothing
                                         def tick(mark = PASS)
                                           @example_results << mark</pre>
                                           @current = (@current > @example_count) ? @example_count : @current + 1
                                           dump progress
```

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/spec directory

```
~ tree ./nyan-cat-formatter-0.0.6
— Gemfile
— LICENSE.md
— README.md
                                           require 'spec_helper'
                                           require 'stringio'
                                           describe NyanCatFormatter do
                                             before do
                                                rspec_bin = $0.split('/').last
@output = StringIO.new
if rspec_bin == 'rspec'
                                                  @formatter = NyanCatFormatter.new(@output)
                                                  @example = RSpec::Core::ExampleGroup.describe.example
                                                  formatter_options = OpenStruct.new(:colour => true, :dry_run => false, :d
                                                  @formatter = NyanCatFormatter.new(formatter_options, @output)
                                                  @example = Spec::Example::ExampleProxy.new("should_pass")
                                                  @formatter.instance_variable_set(:@example_group, OpenStruct.new(:descrip
                                            'group"))
                                                @formatter.start(2)
                                               sleep(0.1) # Just to slow it down a little :-)
                                              describe 'passed, pending and failed' do
```

rakefile tree ./nyan-cat-formatter-0.0.6 · Gemfile README.md require "bundler/gem_tasks' task :default => :spec rspec2.rb nyan-cat-formati RSpec::Core::RakeTask.new spec ├─ nyan_cat_for └─ spec_helper.rb EdgeCase} Friday, February 10, 12

```
Documentation
~ tree ./nyan-cat-formatter-0.0.6
— Gemfile
— LICENSE.md
— README.md Nyan Cat RSpec F
                                   Nyan Cat RSpec Formatter [![Build Status](<u>https://secure.travis-ci.org/mattsears/nyan-cat-</u>
formatter.png)](http://travis-ci.org/mattsears/nyan-cat-formatter)
                                     ``code
    myan_cat_forma
This is my take on the Nyan Cat RSpec Formatter. It simply creates a rainbow trail of test
spec_helper.rb
results. It also counts the number of examples as they execute and highlights failed and
                                   pending specs.
                                   The rainbow changes colors as it runs. See it in action [here](http://vimeo.com/32424001).
                                   Works with RSpec 1.3 and RSpec 2.
                                    rspec --format NyanCatFormatter
                                   Installing Nyan Cat
```

Gemspec

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RubyGems messes with your loadpath.



Initial \$LoadPath

gems/nyan-cat-formatter-0.0.6 ~ irb

irb: \$LOAD_PATH

==> ["/Users/aaronchristy/.rvm/rubies/ruby-1.9.3-p0/lib/ruby/site_ruby/1.9.1", "/Users/aaronchristy/.rvm/rubies/ruby-1.9.3-p0/lib/ruby/site_ruby/1.9.1/x86_64-darwin11.2.0", "/Users/aaronchristy/.rvm/rubies/ruby-1.9.3-p0/lib/ruby/site_ruby", "/Users/aaronchristy/.rvm/rubies/ruby-1.9.3-p0/lib/ruby/vendor_ruby/1.9.1", "/Users/aaronchristy/.rvm/rubies/ruby-1.9.3-p0/lib/ruby/vendor_ruby/1.9.1/x86_64-darwin11.2.0", "/Users/aaronchristy/.rvm/rubies/ruby-1.9.3-p0/lib/ruby/vendor_ruby", "/Users/aaronchristy/.rvm/rubies/ruby-1.9.3-p0/lib/ruby/1.9.1", "/Users/aaronchristy/.rvm/rubies/ruby-1.9.3-p0/lib/ruby/1.9.1", "/Users/aaronchristy/.rvm/rubies/ruby-1.9.3-p0/lib/ruby/1.9.1/x86_64-darwin11.2.0"]

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\$LoadPath after Require

```
irb: require 'nyan_cat_formatter'
===> true
irb: $LOAD_PATH
```

===> ["/Users/aaronchristy/.rvm/gems/ruby-1.9.2-p290/gems/nyan-cat-formatter-0.0.6/lib", "/Users/aaronchristy/.rvm/gems/ruby-1.9.2-p290/gems/rspec-core-2.8.0/lib", "/Users/aaronchristy/.rvm/rubies/ruby-1.9.2-p290/lib/ruby/site_ruby/1.9.1", "/Users/aaronchristy/.rvm/rubies/ruby-1.9.2-p290/lib/ruby/site_ruby/1.9.1/x86_64-darwin11.2.0", "/Users/aaronchristy/.rvm/rubies/ruby-1.9.2-p290/lib/ruby/site_ruby", "/Users/aaronchristy/.rvm/rubies/ruby-1.9.2-p290/lib/ruby/vendor_ruby/1.9.1", "/Users/aaronchristy/.rvm/rubies/ruby-1.9.2-p290/lib/ruby/vendor_ruby/1.9.1/x86_64-darwin11.2.0", "/Users/aaronchristy/.rvm/rubies/ruby-1.9.2-p290/lib/ruby/1.9.1", "/Users/aaronchristy/.rvm/rubies/ruby-1.9.2-p290/lib/ruby/1.9.1", "/Users/aaronchristy/.rvm/rubies/ruby-1.9.2-p290/lib/ruby/1.9.1", "/Users/aaronchristy/.rvm/rubies/ruby-1.9.2-p290/lib/ruby/1.9.1/x86_64-darwin11.2.0"]

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Ruby 1.9 Goodness

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Credits

- Ruby Image: http://www.dyrathror.com/
- Nyan Cat: https://github.com/mattsears/

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