

# Pursuing beauty with Ruby on Rais

**David Heinemeier Hansson** 



Beauty leads to happiness,

## happiness leads to productivity,



Beauty leads to productivity

You can recognize truth by its beauty and simplicity. When you get it right, it is obvious that it is right.

Richard Feynman, Scientist

```
Account.transaction(david, mary) do
    david.withdrawal(100)
    mary.deposit(100)
end
```

#### class Account < ActiveRecord::Base</pre>

validates\_presence\_of :subdomain, :name, :email\_address, :password validates\_uniqueness\_of :subdomain validates\_acceptance\_of :terms\_of\_service, :on => :create validates\_confirmation\_of :password, :email\_address, :on => :create end

#### 

#### class Project < ActiveRecord::Base belongs\_to :portfolio has\_one :project\_manager, :class\_name => "Person" has\_many :milestones, :dependent => true has\_and\_belongs\_to\_many :categories, :join\_table => "categorizations" end

```
class Account < ActiveRecord::Base
has_many :people do
    def find_or_create_by_name(name)
        first_name, *last_name = name.split
        last_name = last_name.join " "
        find_or_create_by_first_name_and_last_name(first_name, last_name)
        end
        end
    end
end
person = Account.find(:first).people.find_or_create_by_name("Richard Feynman")
person.first_name # => "Richard"
person.last_name # => "Feynman"
```

```
class Post < ActiveRecord::Base
has_many :comments
end
class Comment < ActiveRecord::Base
def self.search(query)
  find(:all, :conditions => [ "body = ?", query ])
  end
end
# SELECT * from comments WHERE post_id = 1 AND body = 'hi'
Post.find(1).comments.search "hi"
```

#### class Story < ActiveRecord::Base</pre>

belongs\_to :iteration
 acts\_as\_list :scope => :iteration
end

story.move\_higher
story.move\_to\_bottom

```
class Author < ActiveRecord::Base
    has_many :authorships
    has_many :books, :through => :authorships
end
```

```
class Book < ActiveRecord::Base
    has_many :authorships
    has_many :authors, :through => :authorships
end
```

```
class Authorship < ActiveRecord::Base
    belongs_to :author
    belongs_to :book
end
```

```
david, awrd = Author.find(1), Book.find(1)
david.authorships.create(
   :book => awrd, :contribution => "partial", :written_in => "Denmark"
)
```

```
david.authorships.first.written_in # => "Denmark"
david.books.first # => awrd
```

```
class Person < ActiveRecord::Base</pre>
  has many :taggings, :as => :taggable, :dependent => true
  has many :tags, :through => :taggings
end
class Message < ActiveRecord::Base</pre>
  has_many :taggings, :as => :taggable, :dependent => true
  has many :tags, :through => :taggings
end
class Tagging < ActiveRecord::Base</pre>
  belongs to :tag
  belongs_to :taggable, :polymorphic => true
end
class Tag < ActiveRecord::Base</pre>
  has many :taggings
  def on(*taggables)
    taggables.each { |taggable| taggings.create :taggable => taggable }
  end
```

```
def tagged
   taggings.collect { |tagging| tagging.taggable }
   end
end
```

```
david = Person.find(1)
welcome = Message.find(1)
summer = Tag.find_or_create_by_name "Summer"
summer.on(david, welcome)
david.tags # => [ summer ]
welcome.tags # => [ summer ]
summer.tagged # => [ david, welcome ]
```

```
class Person < ActiveRecord::Base
    acts_as_taggable
end
```

```
class Message < ActiveRecord::Base
    acts_as_taggable
end
```

```
class StoryController < ApplicationController</pre>
               :off, :only => :feed
  session
               :method => :post, :only => [ :comment ]
 verify
 before_filter :authenticate, :only => [ :new, :edit ]
 def show
   @story = Story.find(params[:id])
 end
 def new
   if request.story?
     @story = Story.create(params[:story])
     cookies[:last story] = {
        :value => @story.created_at,
        :expires => 20.years.from now
      }
      flash[:notice] = "Created new story"
      redirect_to :action => "show", :id => @story
   else
     @story = Story.new
      render :layout => "creation"
   end
 end
end
```

<<u>h1</u>>Create a new iteration</<u>h1</u>>

```
<<u>p</u>>
```

You already have <%= pluralize(@iterations.size, "iteration") %>.

```
The last one started like this:
    "<%= truncate(@iterations.first.description, 10) %>"
```

```
<% form_for :iteration, Iteration.new do |i| %>
Title:<<u>br</u>/>
<%= i.text_field :title %>
```

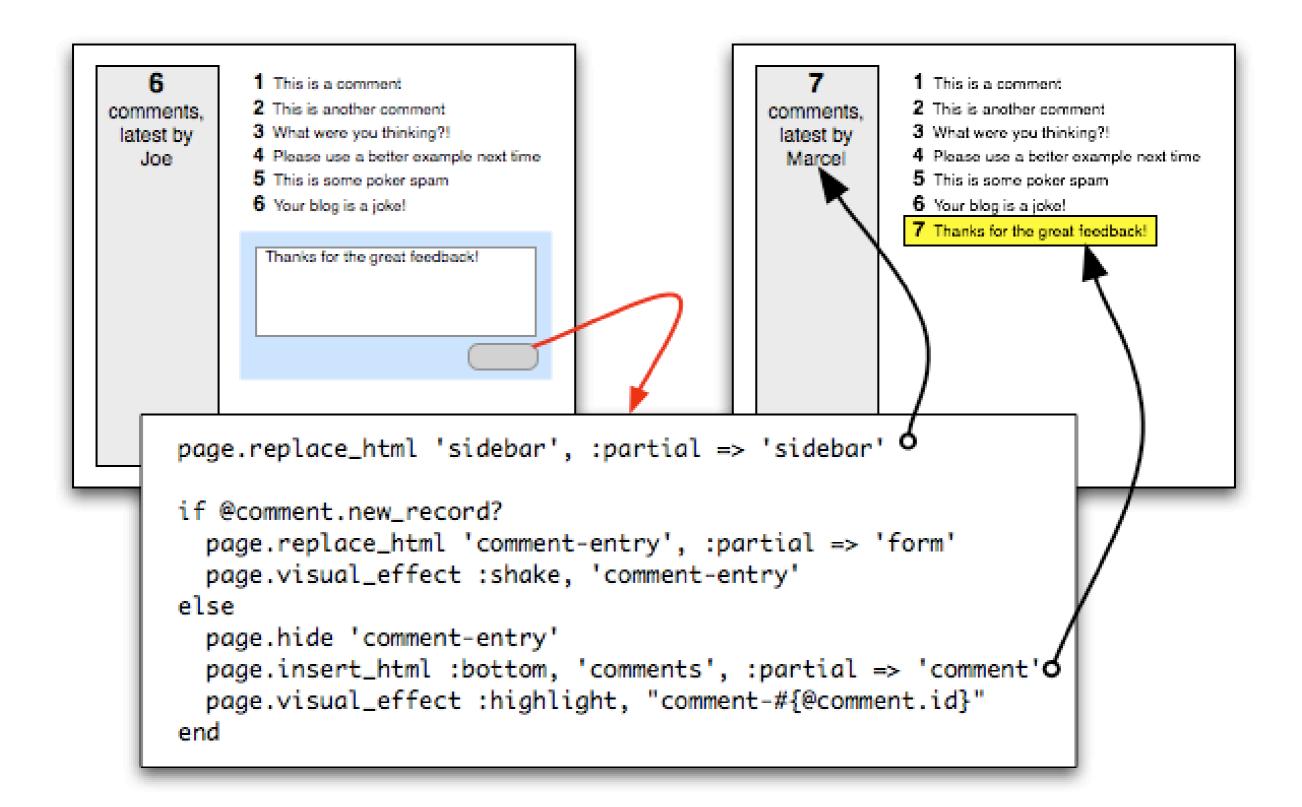
```
Description:<br/><%= i.text_area :title, :size => "20x40" %>
```

```
Completion target:<br/>
<%= i.date_select :completed_on, :discard_year => true %>
```

```
<% fields_for :story, Story.new do |s| %>
Headline:<br/><%= s.text_field :headline, :length => 30, :class => "big" %>
```

```
Difficulty:<br/><% s.select :difficulty, %w( easy medium hard) %>
<% end %>
<% end %>
```

...or <%= link\_to "Cancel", :action => "overview" %>



```
xml.instruct!
xml.rss("version" => "2.0", "xmlns:dc" => "http://purl.org/dc/elements/1.1/") do
  xml.channel do
    xml.title "Backpack"
    xml.link(url_for(:action => "start", :only_path => false))
    xml.description "Tracking changes for your Backpack pages"
    xml.language "en-us"
    xml.ttl "40"
    for event in @events
      xml.item do
        xml.title(event.headline)
        xml.description(event.description)
        xml.pubDate(event.created_at.to_s(:rfc822))
        xml.guid(event.id)
        xml.link(page url(:id => event.page))
      end
    end
  end
end
```

```
Rails::Initializer.run do |config|
  config.frameworks -= [ :action_web_service ]
  config.load_paths += [ "#{RAILS_ROOT}/app/services" ]
  config.log_level = :debug
  config.action_controller.session_store = :active_record_store
  config.action_controller.fragment_cache_store = :file_store
  config.active_record.default_timezone = :utc
  config.active_record.schema_format = :ruby
end
```

```
ActionController::Routing::Routes.draw do |map|
  map.start '', :controller => 'pages', :action => 'start'
  map.signup 'signup', :controller => 'account', :action => 'new'
  map.page 'page/:id', :controller => 'pages', :action => 'show'
  map.connect 'page/:id/:action', :controller => 'pages'
  map.connect 'images/icons/:icon_file', :controller => "assets", :action => "missing_icon"
  map.feed 'feed/:token', :controller => "account", :action => "feed"
  map.ical 'ical/:token', :controller => "reminders", :action => "ical"
end
```

```
set :application, "backpack"
set :repository, "svn+ssh://somewhere/nice"
set :gateway, "gateway.37signals.com"
role :app, "appl.37signals.com", :primary => true
role :app, "app2.37signals.com"
role :app, "app3.37signals.com"
role :web, "web1.37signals.com", :primary => true
role :web, "web2.37signals.com"
```

Migrations Plugins SwitchTower (and Gauge) Functional and unit testing Hooks and callbacks Action Mailer Action Web Services Liquid Databases and web servers

## **Questions?**

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