

Rails 2.0

Michael Koziarski



Introduction

2.0 is pretty old

Fri Dec 7 13:37:13 2007 +0000

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2.1 Beta I

2008-04-01

What's In 2.0?

Less Cruft

Unused Functionality

Dead End Technology

Dead End Technology

SOAP

Orphans

Evolutionary Enhancements

Enhancements in 2.0

Resource Routes

Resource Routes

```
map.resources :posts
```

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```

<http://rails.example.com/posts/>

Resource Routes

```
map.resources :posts do |posts|  
  posts.resources :comments  
  posts.resources :trackbacks  
end
```


Resource Routes

```
map.resources :posts do |posts|  
  posts.resources :comments  
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```

<http://rails.example.com/posts/1/comments>

Resource Routes

```
map.resources :posts do |posts|  
  posts.resources :comments  
  posts.resources :trackbacks  
end
```

<http://rails.example.com/posts/1/comments>

<http://rails.example.com/posts/1/comments.xml>

Resource Routes

```
map.resources :posts,  
  :has_many => [:comments, :trackbacks]
```

Resource Routes

```
map.namespace :admin do |admin|  
  admin.resources :posts, :has_many => [:comments]  
end
```

Resource Routes

```
map.namespace :admin do |admin|  
  admin.resources :posts, :has_many => [:comments]  
end
```

<http://rails.example.com/admin/posts/1/comments.json>

Record Identification

simply_helpful

Resources

```
map.resources :people
```


Resources

<http://rails.example.com/people>

<http://rails.example.com/people/>

Resources

```
class PeopleController < ApplicationController
  def show
    @person = Person.find(params[:id])
  end

  def index
    @people = Person.find(:all)
  end
end
```

Resources

```
link_to @person.name,  
        person_url(@person)
```

What About Forms?

Resources

```
form_for :person, @person,  
  :url => person_url(@person),  
  :html => { :method => :put } do |f|
```

Resources

```
form_for :person, @person,  
         :url => { :action => :update }
```

Resources

```
form_for :person, Person.new,  
  :url => people_url,  
  :html => {:method=>:post} do |f|
```

Resources

```
form_for(@person) do |f|
```


Resources

`link_to @person.name, @person`

Resources

`redirect_to @person`

Resources

```
form_for([@post, @comment])
```

```
link_to [:admin, @post, @comment]
```

Plugin Extractions

Pagination

```
@person_pages, @people =  
  paginate :people, :order => 'last_name'
```

Will Paginate

`@people = @account.people.paginate`

acts_as_.*

acts_as_.*

- acts_as_nested_set

acts_as_.*

- acts_as_nested_set
- acts_as_tree

acts_as_.*

- acts_as_nested_set
- acts_as_tree
- acts_as_list

acts_as_list

```
class Comment < ActiveRecord::Base
  acts_as_list :scope=>:post
end
```

```
@comment.move_to_bottom
@other_comment = @comment.higher_item
@comment.in_list?
```

Foxy Fixtures

Fixtures

koz:

id: 34

name: Michael Koziarski

email: michael@koziarski.com

Fixtures

```
hello_world:  
  id: 45  
  author_id: 34  
  body: '<p>Hello World </p>'  
  created_at: <%= 1.month.ago.to_s(:db) %>  
  updated_at: <%= 1.month.ago.to_s(:db) %>
```

Fixtures

```
troll_on_hello_world:  
  id: 4  
  post_id: 45  
  body: FRIST POST!!!!11
```

Fixtures

```
hello_world:  
  id: 45  
  author_id: 34  
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  updated_at: <%= 1.month.ago.to_s(:db) %>
```

Fixtures

```
hello_world:  
  author: koz  
  body: '<p>Much Simpler</p>'
```

Fixtures

```
hello_world:  
  author: koz  
  body: '<p>Tagged</p>'  
  tags: cool, rails
```


Security Enhancements

XSS

XSS

```
<% @comments.each do |comment| %>  
    <p><%= comment.body %></p>  
<% end %>
```

XSS

```
<script>  
    alert("haxxed!!");  
</script>
```

XSS

`<plaintext>`

XSS

```
<% @comments.each do |comment| %>  
    <p><%=h comment.body %></p>  
<% end %>
```

XSS

```
<% @comments.each do |comment| %>  
    <p><%= sanitize(comment.body) %></p>  
<% end %>
```

Sanitize

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- Allowed several obscure but dangerous attacks
- `white_list` plugin to the rescue!

XSS

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    <p><%= sanitize(comment.body) %></p>  
<% end %>
```

XSS

```
<% @comments.each do |comment| %>  
  <p>  
    <%= sanitize(comment.body,  
      tags => %w(b i em a)) %>  
  </p>  
<% end %>
```

CSRF

AKA Session Riding

How to defeat digg.com

... an introduction to session riding

<http://4diggers.blogspot.com>


```

```

CSRF Prerequisites

- 'Remember Me'
- Guessable URLs

POST won't save you

```
<form id="hax" action="http://yoursite.com"  
      method="POST">  
</form>
```

```
<form id="hax" action="http://yoursite.com"  
      method="POST">  
</form>
```

```
<script>$('hax').submit()</script>
```

CSRF

```
class PostsController < ApplicationController  
  protect_from_forgery  
end
```

Performance

Date Parsing

Active Record Attributes

Named Routes

Named Routes

```
map.foo 'foo', :controller=>"foos"
```

Named Routes

```
foo_url # => "http://rails.example.com/foo"
```

Named Routes

```
person_url(1)
```

Named Routes

```
person_url(1, :show_full=>true)
```

HTTP Authentication

```
authenticate_or_request_with_http_basic do |username, password|  
  User.authenticate(username, password)  
end
```


Sexy Migrations

```
create_table :customers do |t|
  t.column :first_name, :string
  t.column :last_name, :string
  t.column :account_id, :integer
  t.column :created_at, :datetime
  t.column :updated_at, :datetime
end
```

```
create_table :customers do |t|
  t.string :first_name, :last_name
  t.references :account
  t.timestamps
end
```

Initializers

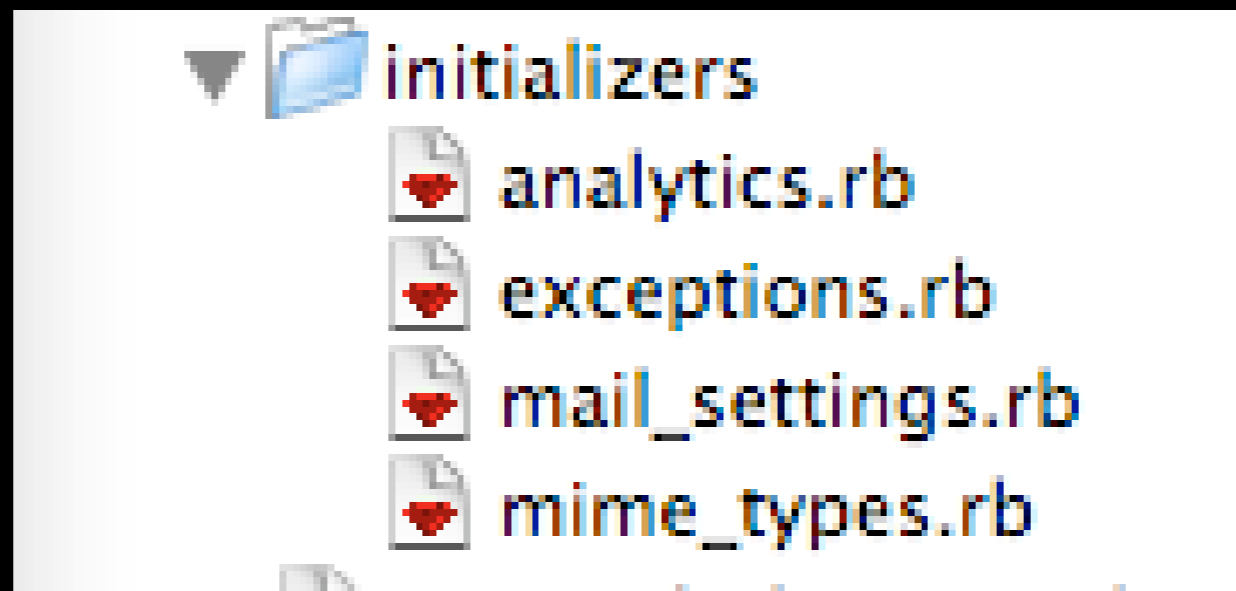
Initializers

```
Inflector.inflections do |inflect|
  inflect.irregular 'koz', 'kozes'
end

require 'some_gem'
require 'some_other_gem'

SOME_CONSTANT = SomeGem.new(:something)
```


Initializers



Coming in 2.1

named_scope

Named Scopes

```
class Article < ActiveRecord::Base
  named_scope :published,
    :conditions => {:published => true}
  named_scope :popular,
    :conditions => "views_count > 50"
end
```

Named Scopes

```
Article.published.paginate(:page => 1)
```

Named Scopes

`Article.published.popular.count`

Named Scopes

```
@blog.articles.published.  
  popular.paginate(:page=>1)
```

Association Preloading

Like `:include`, but not

Preloading

```
Post.find(:all, :include=>:comments)
```


Preloading

```
Post.find(:all, :include=>[:comments,  
                           :authors])
```


More Performance

Route Recognition

Memory Optimisations

Conclusions

Incremental Enhancement

Targeted Optimisations

Less Mass

Questions?

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