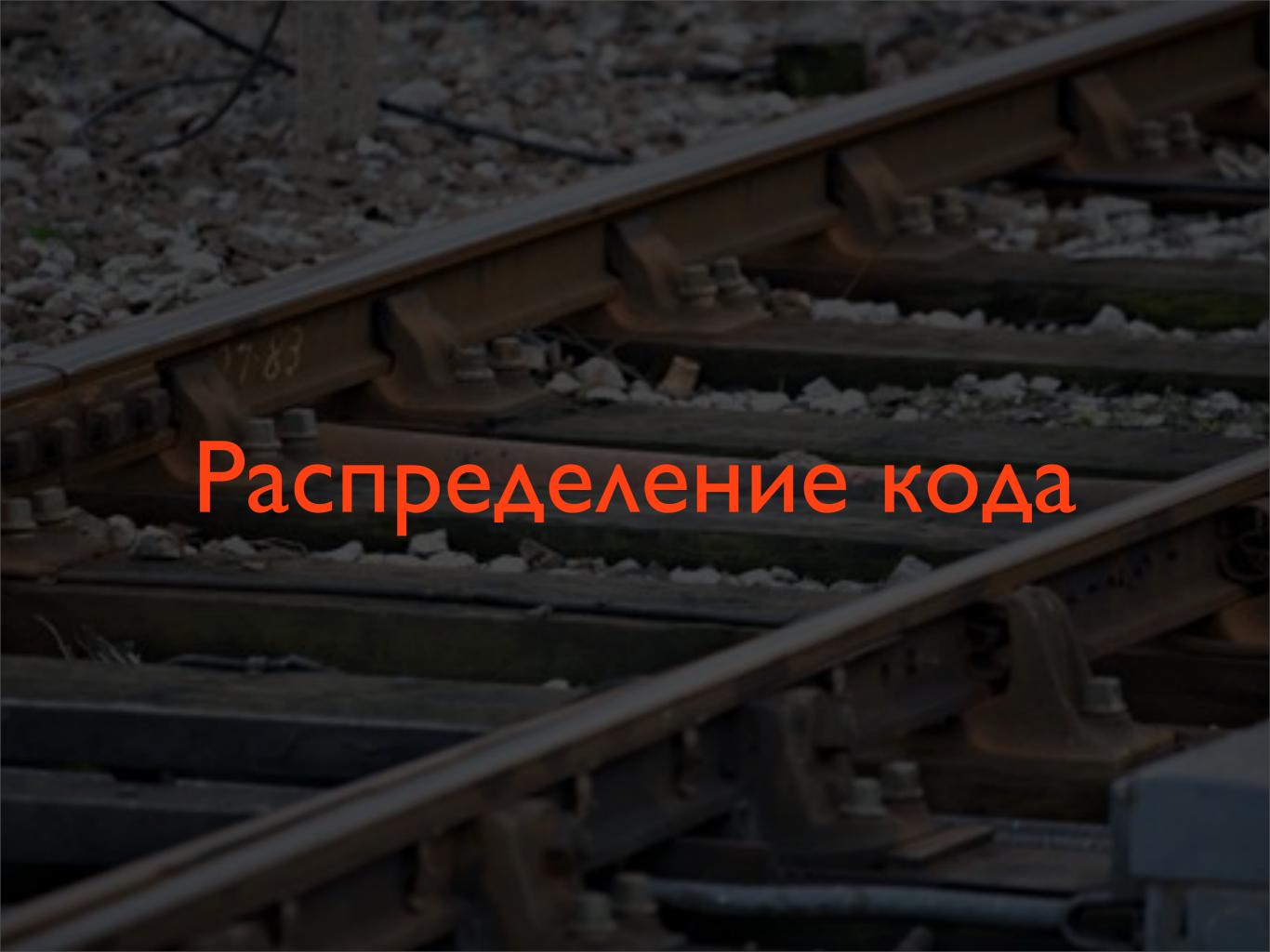


## Что такое хороший код?

- Читабельный
- Гибкий
- Эффективный
- Поддерживаемый
- Согласованный
- Тестируемый



# Применение named\_scope

## Применение named scope

```
class UsersController < ApplicationController</pre>
 def index
    @published_post = Post.published
    @draft_post = Post.draft
 end
end
class Post < ActiveRecord::Base</pre>
  named_scope :published, :conditions => { :state => 'published' },
                           :limit => 10, :order => 'created_at desc')
 named_scope :draft, :conditions => { :state => 'draft' },
                           :limit => 10, :order => 'created_at desc')
end
```

## Виртуальные аттрибуты

```
<% form_for @user do |f| %>
  <%= text_filed_tag :full_name %>
  <% end %>
```

```
class UsersController < ApplicationController
  def create
    @user = User.new(params[:user])
    @user.first_name = params[:full_name].split(' ', 2).first
    @user.last_name = params[:full_name].split(' ', 2).last
    @user.save
  end
end</pre>
```

## Виртуальные аттрибуты

```
class User < ActiveRecord::Base</pre>
 def full_name
    [first_name, last_name].join(' ')
  end
 def full_name=(name)
    split = name.split(' ', 2)
    self.first_name = split.first
    self.last_name = split.last
  end
end
```

### Логика модели

```
class PostController < ApplicationController</pre>
 def publish
   @post = Post.find(params[:id])
   @post.update_attribute(:is_published, true)
   @post.approved_by = current_user
   if @post.create_at > Time.now - 7.days
     @post.popular = 100
   else
     @post.popular = 0
   end
   redirect_to post_url(@post)
 end
```

### Логика модели

```
class Post < ActiveRecord::Base</pre>
 def publish
    self.is_published = true
    self.approved_by = current_user
    if self.create_at > Time.now-7.days
      self.popular = 100
    else
      self.popular = 0
    end
  end
```

## Формы вложенных моделей Плохо!

```
class Product < ActiveRecord::Base</pre>
  has_one :detail
end
class Detail < ActiveRecord::Base</pre>
 belongs_to :product
end
<% form_for :product do IfI %>
  <%= f.text_field :title %>
  <% fields_for :detail do | detail | %>
    <%= detail.text_field :manufacturer %>
  <% end %>
<% end %>
```

## Формы вложенных моделей \_

```
class Product < ApplicationController</pre>
  def create
    @product = Product.new(params[:product])
    @details = Detail.new(params[:detail])
    Product.transaction do @product.save!
      @details.product = @product
      @details.save!
    end
  end
end
```

## Вложенные формы

```
class Product < ActiveRecord::Base</pre>
  has_one :detail
  accepts_nested_attributes_for :detail
end
<% form_for :product do IfI %>
 <%= f.text_field :title %>
 4% f.fields_for :detail do Idetail! %>
   <%= detail.text_field :manufacturer %>
 <% end %>
<% end %>
class Product < ApplicationController</pre>
 def create
    @product = Product.new(params[:product])
   @product.save
end end
```



## Контроллер

#### Плохо!

class EventsController < ApplicationController</pre>

def end	index	def end	feeds	def end	white_member_list	def end	watch_list
def end	show	def end	add_comment	def end	black_member_list	def end	add_favorite
def end	create	def end	show_comment	def end	deny_user	def end	invite
def end	update	def end	destroy_comment	def end	allow_user	def end	join
def end	destroy	def end	edit_comment	def end	edit_managers	def end	leave
		def end	approve_comment	def end	set_user_as_manager		
				def end	set_user_as_member		

end

## Контроллер

```
class EventsController < ApplicationController</pre>
  def index; end
  def show; end
end
class CommentsControlers < ApplicationController</pre>
 def index; end
  def create; end
  def destroy; end
end
def FavoriteControllers < ApplicationController</pre>
  def create; end
  def destroy; end
end
class EventMembershipsControlers < ApplicationController</pre>
  def create; end
  def destroy; end
end
```







## named\_scope

```
class PostController < ApplicationController</pre>
 def search
    conditions = { :title => "%#{params[:title]}%" } if params[:title]
    conditions.merge!{ :content => "%#{params[:content]}%" } if
params[:content]
    case params[:order]
     when "title" : order = "title desc"
     when "created_at" : order = "created_at"
    end
    if params[:is_published]
      conditions.merge!{ :is_published => true }
    end
    @posts = Post.find(:all, :conditions => conditions, :order => order,
                       :limit => params[:limit])
 end
end
```

## named\_scope

```
class Post < ActiveRecord::Base</pre>
 named_scope :matching, lambda { Icolumn, value |
    return {} if value.blank?
    { :conditions => ["#{column} like ?", "%#{value}%"] }
 named_scope :order, lambda { lorder!
    { :order => case order
      when "title" : "title desc"
      when "created_at" : "created_at"
    end }
```

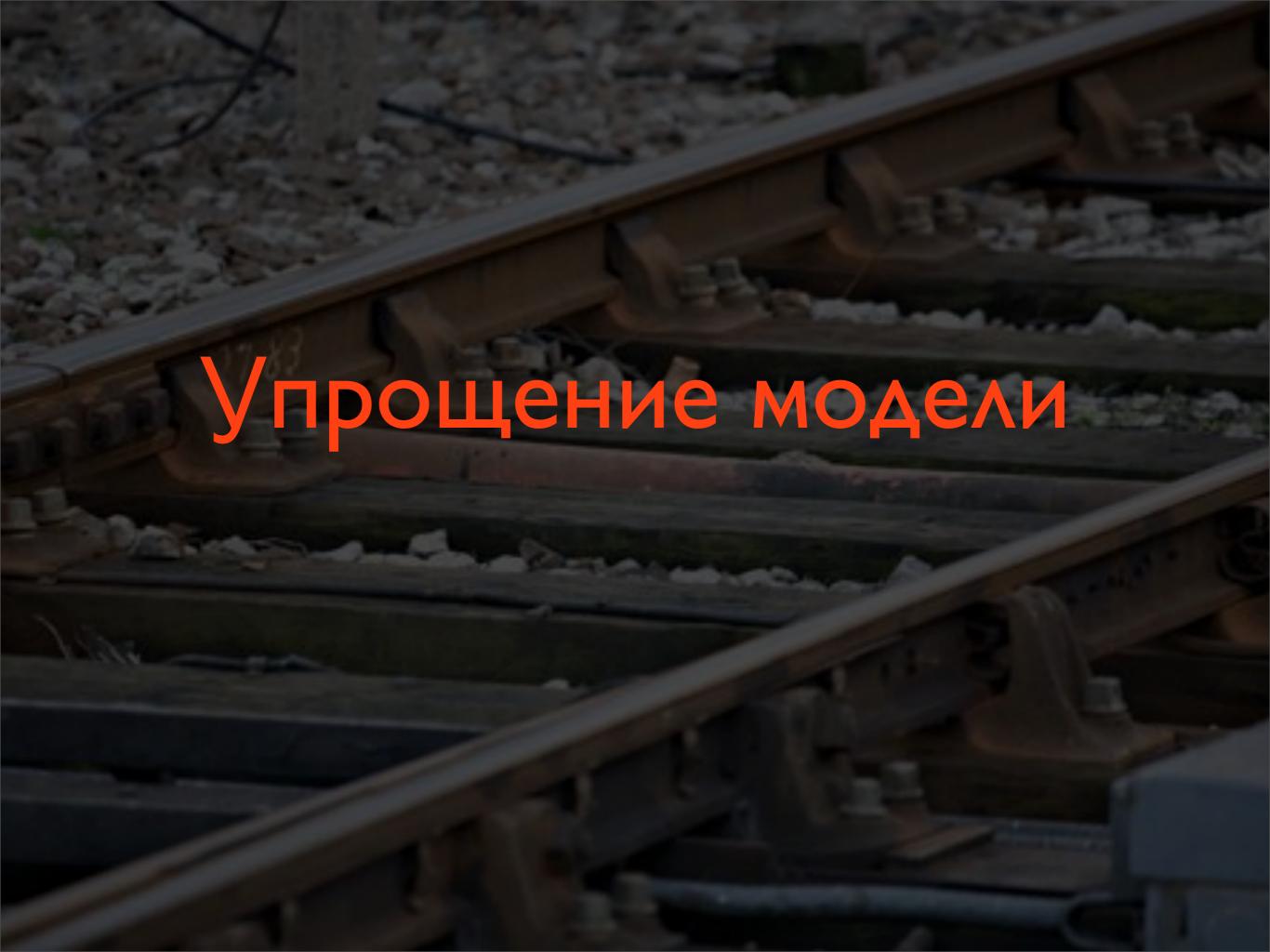
```
named scope
                                            Хорошо!
class PostController < ApplicationController</pre>
 def search
   @posts = Post.matching(:title, params[:title])
                .matching(:content, params[:content])
                .order(params[:order])
 end
end
```

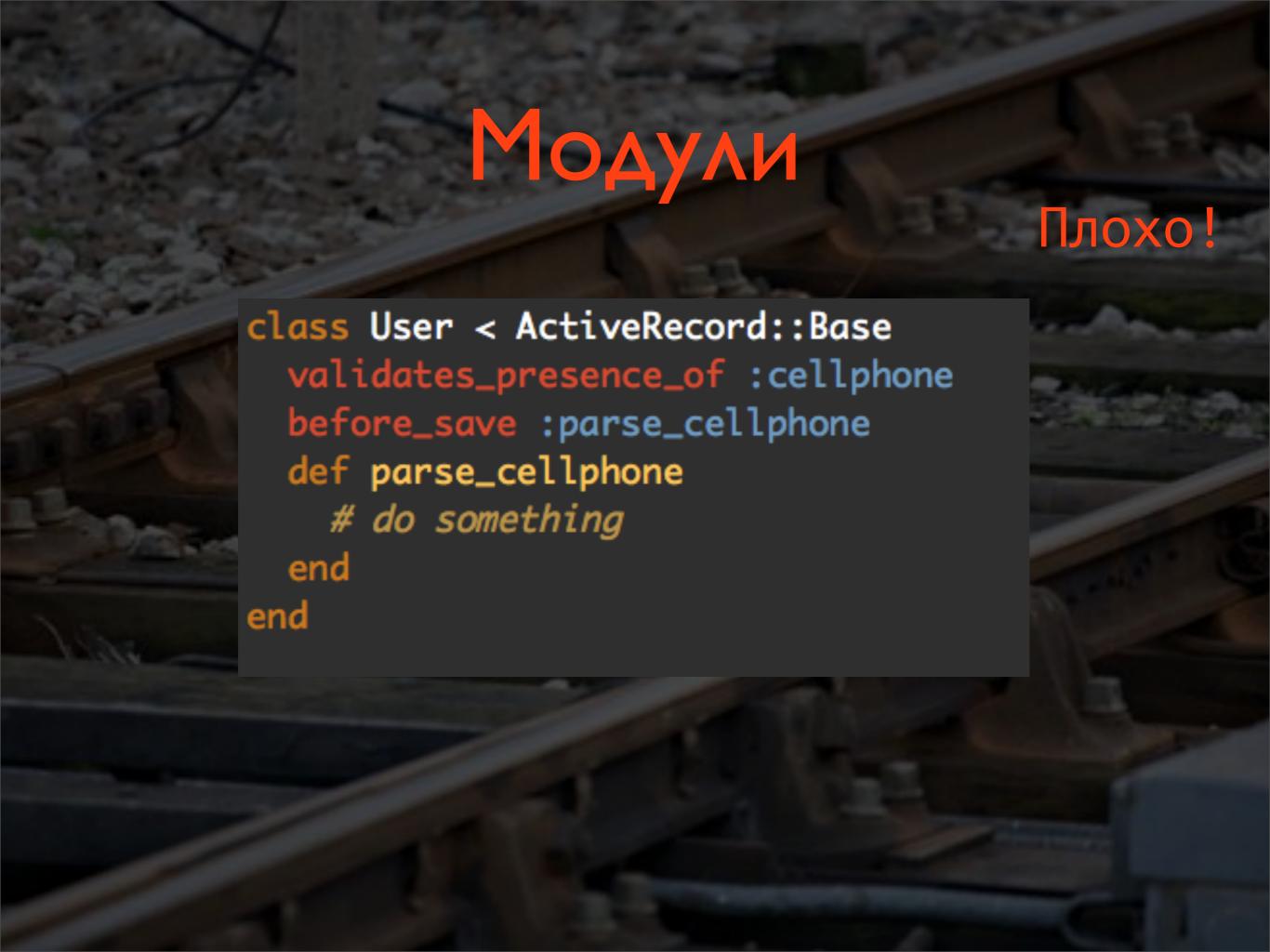
## Метапрограммирование Плохо!

```
class Post < ActiveRecord::Base</pre>
 validate_inclusion_of :status, :in => ['draft', 'published', 'spam']
 def self.all_published
   find(:all, :conditions => { :status => 'published' }
 end
 def self.all_spam
   find(:all, :conditions => { :status => 'spam' }
 end
 def published?
   self.stats == 'published'
 end
 def spam?
   self.stats == 'spam'
 end
```

## Метапрограммирование

```
class Post < ActiveRecord::Base</pre>
 STATUSES = ['draft', 'published', 'spam']
 validate_inclusion_of :status, :in => STATUSES
 class << self
    STATUSES.each do | status_name|
      define_method "all_#{status}" do
        find(:all, :conditions => { :status => status_name }
      end
   end
 end
 STATUSES.each do Istatus_namel
   define_method "#{status_name}?" do
      self.status == status_name
   end
 end
```









## Observer

```
class Project < ActiveRecord::Base # nothing here</pre>
end
# app/observers/project_notification_observer.rb
class ProjectNotificationObserver < ActiveRecord::Observer</pre>
  observe Project
  def after_create(project)
    project.members.each do Imemberl
      ProjectMailer.deliver_notice(project, member)
    end
  end
end
```



## Фильтры

```
class PostController < ApplicationController</pre>
 def show
   @post = current_user.posts.find(params[:id]
 end
 def edit
   @post = current_user.posts.find(params[:id]
 end
 def update
   @post = current_user.posts.find(params[:id]
   @post.update_attributes(params[:post])
 end
```

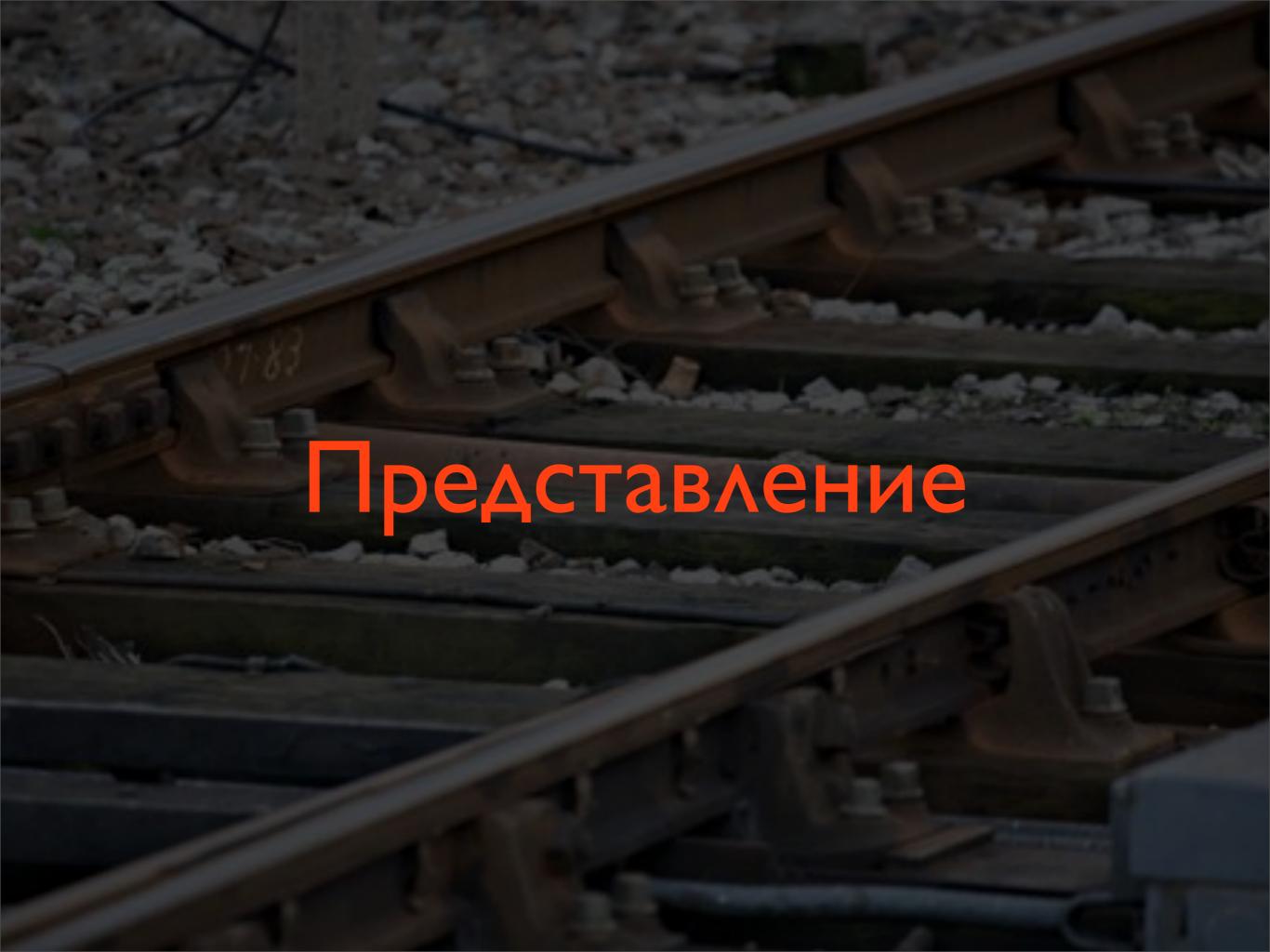
#### Тильтры Хорошо, но не очень

```
class PostController < ApplicationController</pre>
  before_filter :find_post, :only => [:show, :edit, :update, :destroy]
 def update
    @post.update_attributes(params[:post])
  end
 def destroy
   @post.destroy
  end
  protected
    def find_post
      @post = current_user.posts.find(params[:id])
    end
end
```

## Фильтры

#### Лучше

```
class PostController < ApplicationController</pre>
  before_filter :authenticate
  def update
    find_post
    @post.update_attributes(params[:post])
  end
  def destroy
    find_post
    @post.destroy
  end
  protected
    def find_post
      @post = current_user.posts.find(params[:id])
    end
end
```



## Instance variable vs local variable

Плохо!

```
class Post < ApplicationController def show
  @post = Post.find(params[:id) end
end</pre>
```

```
<%= render :partial => "sidebar" %>
```

```
<%= render :partial => "sidebar", :locals => { :post => @post } %>
```



## Hash to Object

```
class ::Hash
 # add keys to hash
 def to_obj
   self.each do lk,vl
     if v.kind_of? Hash
       v.to_obj
     end
     k=k.gsub(/\.|\s|-|\/|\'/, '_').downcase.to_sym
     self.instance_variable_set("@#{k}", v)
     self.class.send(:define_method, k,
         proc{self.instance_variable_get("@#{k}")})
     self.class.send(:define_method, "#{k}=", proc{|v|
         self.instance_variable_set("@#{k}", v)})
   end
   return self
 end
end
```

```
Hash to Object
                                                   Хорошо!
require 'ostruct'
hash = { "country" => "Australia", :population => 20_000_000 }
data = OpenStruct.new(hash)
p data
            # -> <0penStruct country="Australia" population=20000000>
```



- http://blog.davidchelimsky.net/wp-content/ uploads/2010/11/duplication.pdf
- http://railscasts.com
- http://rails-bestpractices.com
- http://refactormycode.com/

