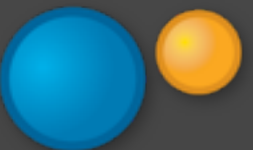


# With a Mighty Hammer

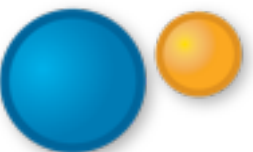
benscofield – viget labs  
red dirt rubyconf  
6 may 2010



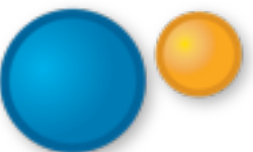
# Changes



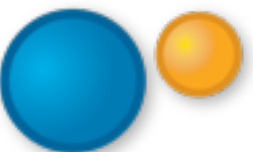
# Model



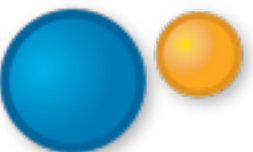
```
[rails2] > ./script/generate model Viking name:string  
exists    app/models/  
exists    test/unit/  
exists    test/fixtures/  
create    app/models/viking.rb  
create    test/unit/viking_test.rb  
create    test/fixtures/vikings.yml  
exists    db/migrate  
create    db/migrate/20100505095300_create_vikings.rb
```



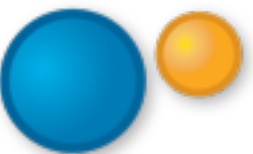
```
[rails3] > rails g model Viking name:string  
  invoke  active_record  
  create  db/migrate/20100505095405_create_vikings.rb  
  create  app/models/viking.rb  
  invoke  test_unit  
  create  test/unit/viking_test.rb  
  create  test/fixtures/vikings.yml
```



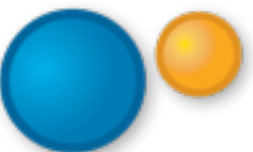
```
[rails3] > rails g model Viking name:string  
  invoke  active_record  
  create  db/migrate/20100505095405_create_vikings.rb  
  create  app/models/viking.rb  
  invoke  test_unit  
  create  test/unit/viking_test.rb  
  create  test/fixtures/vikings.yml
```



# Controller

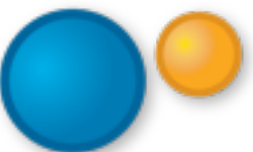


```
[rails2] > ./script/generate controller Vikings new create  
exists app/controllers/  
exists app/helpers/  
create app/views/vikings  
exists test/functional/  
exists test/unit/helpers/  
create app/controllers/vikings_controller.rb  
create test/functional/vikings_controller_test.rb  
create app/helpers/vikings_helper.rb  
create test/unit/helpers/vikings_helper_test.rb  
create app/views/vikings/new.html.erb  
create app/views/vikings/create.html.erb
```

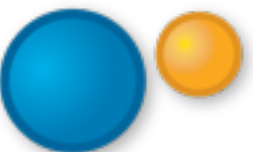




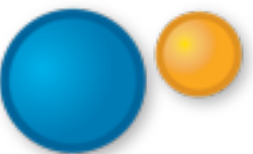
```
[rails3] > rails g controller Vikings new create
  create  app/controllers/vikings_controller.rb
  route  get "vikings/create"
  route  get "vikings/new"
  invoke erb
  create  app/views/vikings
  create  app/views/vikings/new.html.erb
  create  app/views/vikings/create.html.erb
  invoke test_unit
  create  test/functional/vikings_controller_test.rb
  invoke helper
  create  app/helpers/vikings_helper.rb
  invoke test_unit
  create  test/unit/helpers/vikings_helper_test.rb
```



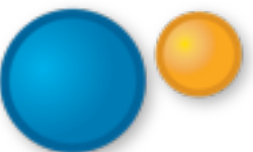
```
[rails3] > rails g controller Vikings new create
  create  app/controllers/vikings_controller.rb
  route  get "vikings/create"
  route  get "vikings/new"
  invoke erb
  create  app/views/vikings
  create  app/views/vikings/new.html.erb
  create  app/views/vikings/create.html.erb
  invoke test_unit
  create  test/functional/vikings_controller_test.rb
  invoke helper
  create  app/helpers/vikings_helper.rb
  invoke test_unit
  create  test/unit/helpers/vikings_helper_test.rb
```



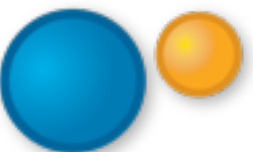
# Resource



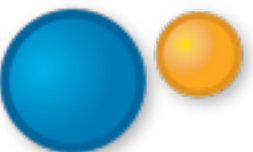
```
[rails2] > ./script/generate resource Viking name:string
exists    app/models/
exists    app/controllers/
exists    app/helpers/
create    app/views/vikings
exists    test/functional/
exists    test/unit/
exists    test/unit/helpers/
dependency model
exists    app/models/
exists    test/unit/
exists    test/fixtures/
create    app/models/viking.rb
create    test/unit/viking_test.rb
create    test/fixtures/vikings.yml
exists    db/migrate
create    db/migrate/20100505095850_create_vikings.rb
create    app/controllers/vikings_controller.rb
create    test/functional/vikings_controller_test.rb
create    app/helpers/vikings_helper.rb
create    test/unit/helpers/vikings_helper_test.rb
route     map.resources :vikings
```



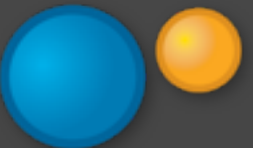
```
[rails3] > rails g resource Viking name:string
  invoke  active_record
  create   db/migrate/20100505095729_create_vikings.rb
  create   app/models/viking.rb
  invoke  test_unit
  create   test/unit/viking_test.rb
  create   test/fixtures/vikings.yml
  invoke  controller
  create   app/controllers/vikings_controller.rb
  invoke  erb
  create   app/views/vikings
  invoke  test_unit
  create   test/functional/vikings_controller_test.rb
  invoke  helper
  create   app/helpers/vikings_helper.rb
  invoke  test_unit
  create   test/unit/helpers/vikings_helper_test.rb
  route   resources :vikings
```



```
[rails3] > rails g resource Viking name:string
  invoke  active_record
  create  db/migrate/20100505095729_create_vikings.rb
  create  app/models/viking.rb
  invoke  test_unit
  create  test/unit/viking_test.rb
  create  test/fixtures/vikings.yml
  invoke  controller
  create  app/controllers/vikings_controller.rb
  invoke  erb
  create  app/views/vikings
  invoke  test_unit
  create  test/functional/vikings_controller_test.rb
  invoke  helper
  create  app/helpers/vikings_helper.rb
  invoke  test_unit
  create  test/unit/helpers/vikings_helper_test.rb
  route  resources :vikings
```



# Options



```
[rails2] > ./script/generate model
```

Options:

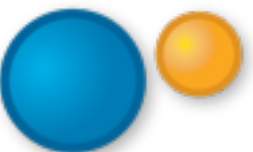
- skip-timestamps
- skip-migration
- skip-fixture

Rails Info:

- v, --version
- h, --help

General Options:

- p, --pretend
- f, --force
- s, --skip
- q, --quiet
- t, --backtrace
- c, --svn
- g, --git





```
[rails3] > rails g model
```

Options:

```
-o, --orm=NAME
```

Runtime options:

```
-q, [--quiet]
```

```
-p, [--pretend]
```

```
-f, [--force]
```

```
-s, [--skip]
```

TestUnit options:

```
[--fixture]
```

```
-r, [--fixture-replacement=NAME]
```

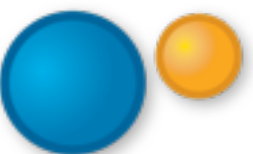
ActiveRecord options:

```
[--migration]
```

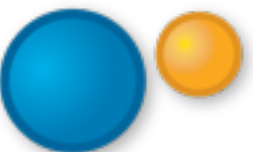
```
[--parent=PARENT]
```

```
[--timestamps]
```

```
-t, [--test-framework=NAME]
```



# Additions



```
[rails3] > rails g model
```

Options:

```
-o, --orm=NAME
```

Runtime options:

```
-q, [--quiet]
```

```
-p, [--pretend]
```

```
-f, [--force]
```

```
-s, [--skip]
```

TestUnit options:

```
[--fixture]
```

```
-r, [--fixture-replacement=NAME]
```

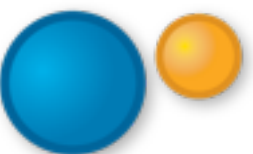
ActiveRecord options:

```
[--migration]
```

```
[--parent=PARENT]
```

```
[--timestamps]
```

```
-t, [--test-framework=NAME]
```



```
[rails3] > rails g resource
```

Options:

```
    [--singleton]
-c, --resource-controller=NAME
-o, --orm=NAME
-a, [--actions=ACTION ACTION]
    [--force-plural]
```

Runtime options:

...

TestUnit options:

...

ActiveRecord options:

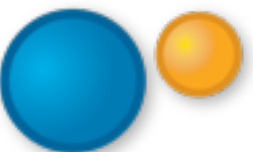
...

Controller options:

```
-e, [--template-engine=NAME]
    [--helper]
-t, [--test-framework=NAME]
```



# Hooks



```
[rails3] > rails g model
```

Options:

```
-o, --orm=NAME
```

Runtime options:

...

TestUnit options:

```
[--fixture]
```

```
-r, [--fixture-replacement=NAME]
```

ActiveRecord options:

```
[--migration]
```

```
[--parent=PARENT]
```

```
[--timestamps]
```

```
-t, [--test-framework=NAME]
```



```
[rails3] > rails g resource
```

Options:

```
    [--singleton]
  -c, --resource-controller=NAME
  -o, --orm=NAME
  -a, [--actions=ACTION ACTION]
      [--force-plural]
```

Runtime options:

...

TestUnit options:

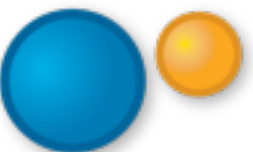
...

ActiveRecord options:

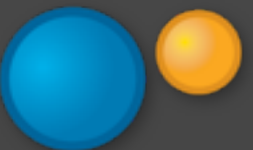
...

Controller options:

```
  -e, [--template-engine=NAME]
      [--helper]
  -t, [--test-framework=NAME]
```

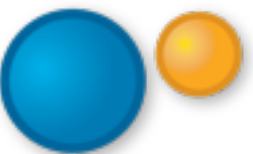


# Replacements





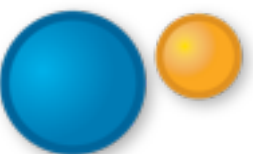
# On the Fly



```
[rails3] > rails g model Ninja name:string -o mongo_mapper
```

```
[rails3] > rails g model Ninja name:string -t shoulda
```

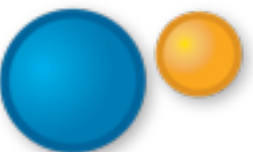
```
[rails3] > rails g model Ninja name:string -r factory_girl
```



```
[rails3] > rails g model Ninja name:string -o mongo_mapper
error    mongo_mapper [not found]
```

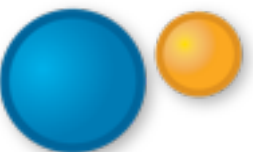
```
[rails3] > rails g model Ninja name:string -t shoulda
invoke   active_record
create   db/migrate/20100505102902_create_ninjas.rb
create   app/models/ninja.rb
error    shoulda [not found]
```

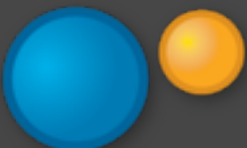
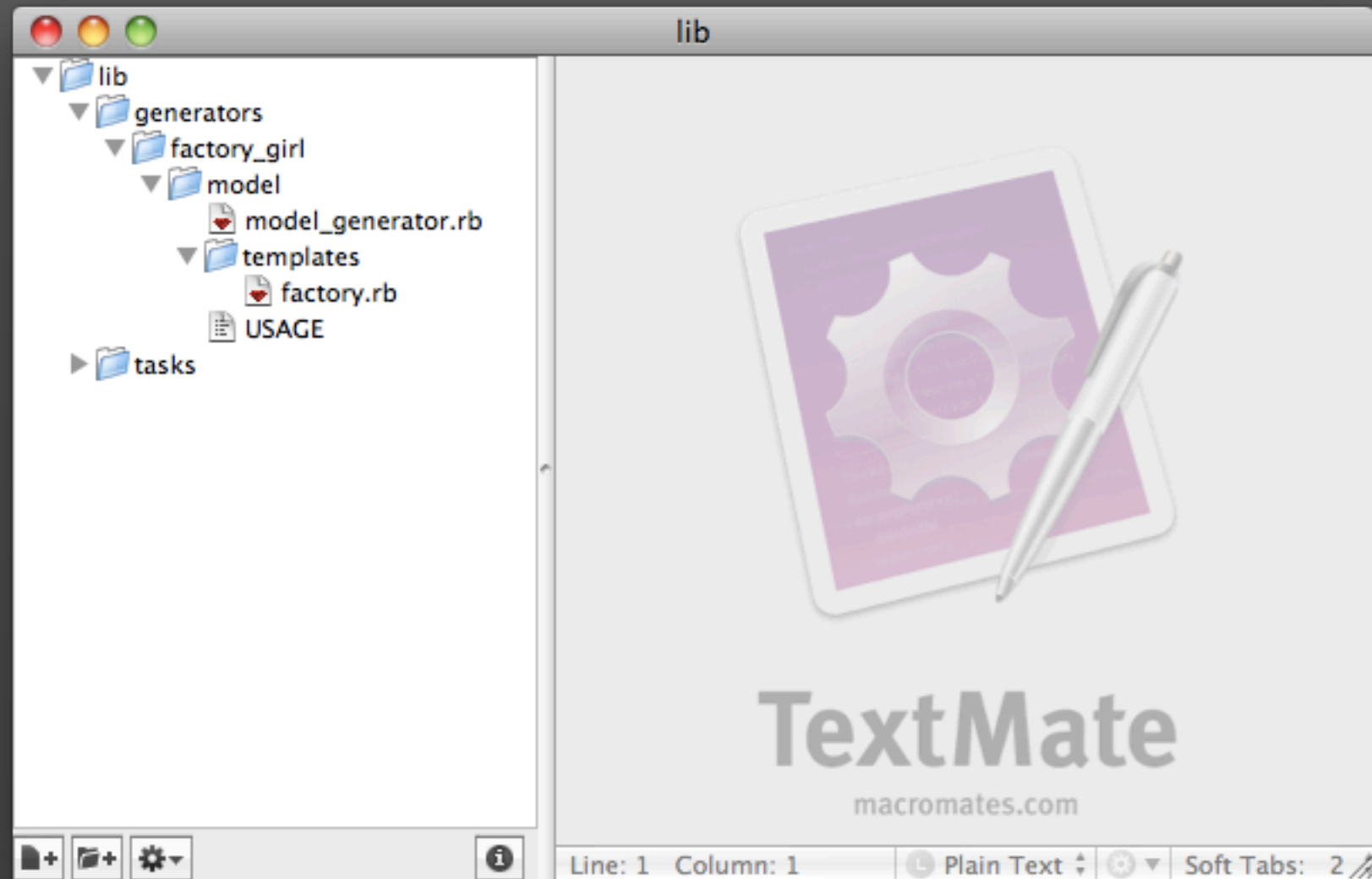
```
[rails3] > rails g model Ninja name:string -r factory_girl
invoke   active_record
create   db/migrate/20100505102902_create_ninjas.rb
create   app/models/ninja.rb
invoke   test_unit
create   test/unit/ninja_test.rb
error    factory_girl [not found]
```



```
[rails3] > rails g generator FactoryGirl  
create lib/generators/factory_girl  
create lib/generators/factory_girl/factory_girl_generator.rb  
create lib/generators/factory_girl/USAGE  
create lib/generators/factory_girl/templates
```

**NO**

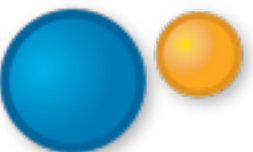




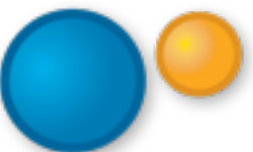
```
module FactoryGirl
  class ModelGenerator < Rails::Generators::NamedBase
    argument :attributes, :type => :array, :default => [],
             :banner => "field:type field:type"

    def create_fixture_file
      template 'factory.rb',
        File.join('test', 'factories', "#{singular_name}.rb")
    end

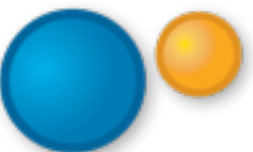
    def self.source_root
      @source_root ||= File.expand_path('../templates', __FILE__)
    end
  end
end
```



```
Factory.define :<%= singular_name %> do |f|  
  <% attributes.each do |attribute| -%>  
    <% if attribute.type == :references -%>  
      f.association :<%= attribute.name %>  
    <% else -%>  
      f.<%= attribute.name %> <%= attribute.default.inspect %>  
    <% end -%>  
  <% end -%>  
end
```

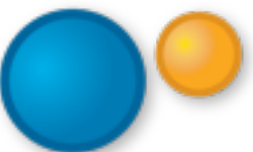


```
[rails3] > rails g model Ninja name:string clan:references  
           -r factory_girl  
invoke    active_record  
create    db/migrate/20100505102902_create_ninjas.rb  
create    app/models/ninja.rb  
invoke    test_unit  
create    test/unit/ninja_test.rb  
invoke    factory_girl  
create    test/factories/ninja.rb
```

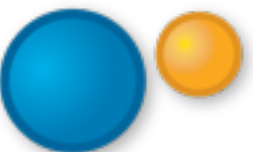




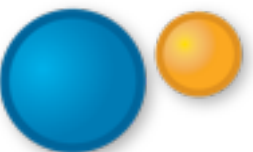
```
Factory.define :ninja do |f|  
  f.name "MyString"  
  f.association :clan  
end
```



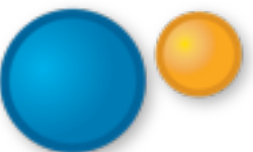
# Changing the Default



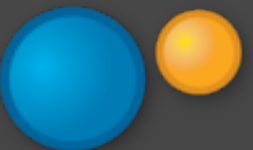
```
module TestApp
  class Application < Rails::Application
    config.generators do |g|
      g.test_framework :test_unit,
                       :fixture_replacement => :factory_girl
    end
  end
end
```



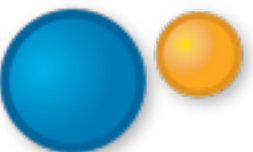
```
[rails3] > rails g model Ninja name:string clan:references
  invoke  active_record
  create  db/migrate/20100505102902_create_ninjas.rb
  create  app/models/ninja.rb
  invoke  test_unit
  create  test/unit/ninja_test.rb
  invoke  factory_girl
  create  test/factories/ninja.rb
```

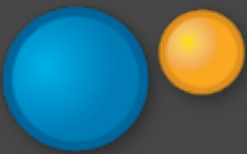
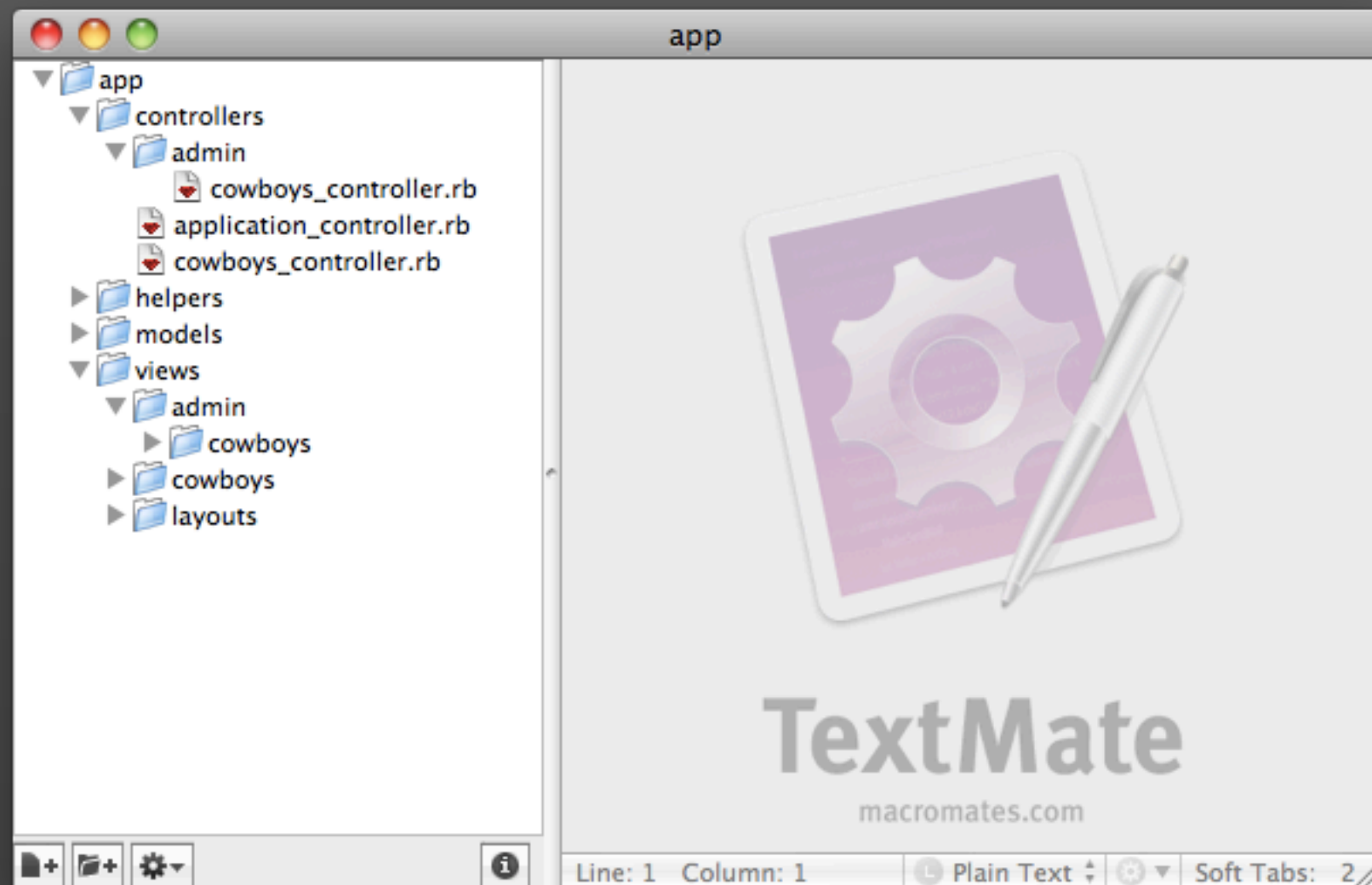


# Hooking

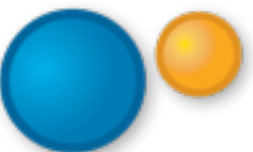


# Typus



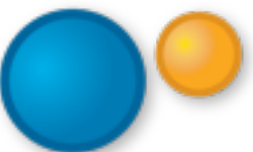


```
[rails3] > rails g resource Cowboy name:string
  invoke  active_record
  create   db/migrate/20100506031815_create_cowboys.rb
  create   app/models/cowboy.rb
  invoke  test_unit
  create   test/unit/cowboy_test.rb
  invoke  factory_girl
  create   test/factories/cowboy.rb
  invoke  controller
  create   app/controllers/cowboys_controller.rb
  invoke  erb
  create   app/views/cowboys
  invoke  test_unit
  create   test/functional/cowboys_controller_test.rb
  invoke  helper
  create   app/helpers/cowboys_helper.rb
  invoke  test_unit
  create   test/unit/helpers/cowboys_helper_test.rb
  route   resources :cowboys
```





```
[rails3] > rails g resource Cowboy name:string
  invoke  active_record
  create   db/migrate/20100506031815_create_cowboys.rb
  create   app/models/cowboy.rb
  invoke  test_unit
  create   test/unit/cowboy_test.rb
  invoke  factory_girl
  create   test/factories/cowboy.rb
  invoke  controller
  create   app/controllers/cowboys_controller.rb
  invoke  erb
  create   app/views/cowboys
  invoke  test_unit
  create   test/functional/cowboys_controller_test.rb
  invoke  helper
  create   app/helpers/cowboys_helper.rb
  invoke  test_unit
  create   test/unit/helpers/cowboys_helper_test.rb
  route   resources :cowboys
```



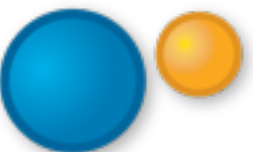
```
module Typus
  class ResourceGenerator < Rails::Generators::NamedBase
    def initialize(args, *options) #:nodoc:
      args[0] = args[0].dup if args[0].is_a?(String) &&
        args[0].frozen?
      args[0] = "Admin::#{args[0]}"

      super
    end

    def create_controller
      template 'typus_controller.rb',
        File.join('app', 'controllers', class_path,
          "#{file_name}_controller.rb")
    end

    hook_for :template_engine, :as => :controller
    hook_for :test_framework, :as => :controller

    # continued ...
  end
end
```



```
# continued ...
```

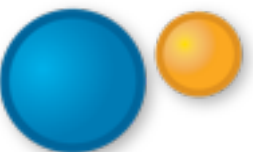
```
hook_for(:controller,  
        :as => :controller,  
        :in => :rails) do |instance, controller|  
  instance.instance_eval do  
    @_invocations.delete(Erb::Generators::ControllerGener...)  
    @_invocations.delete(TestUnit::Generators::Controller...)  
  end
```

```
    instance.invoke controller, [instance.name.demodulize]  
  end
```

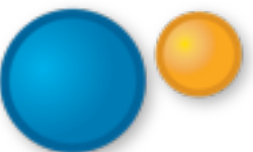
```
def self.source_root  
  @source_root ||= File.expand_path('../templates', __FILE__)  
end
```

```
end
```

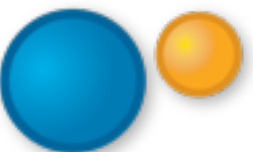
```
end
```



```
module TestApp
  class Application < Rails::Application
    config.generators do |g|
      g.resource_controller :typus, :controller => :controller
    end
  end
end
```



```
[rails3] > rails g resource Cowboy name:string
  invoke  active_record
  create  db/migrate/20100505231238_create_cowboys.rb
  create  app/models/cowboy.rb
  invoke  test_unit
  create  test/unit/cowboy_test.rb
  invoke  factory_girl
  create  test/factories/cowboy.rb
  invoke  typus
  create  app/controllers/admin/cowboys_controller.rb
  invoke  erb
  create  app/views/admin/cowboys
  invoke  test_unit
  create  test/functional/admin/cowboys_controller_test.rb
  invoke  controller
  create  app/controllers/cowboys_controller.rb
  invoke  erb
  create  app/views/cowboys
  invoke  test_unit
  create  test/functional/cowboys_controller_test.rb
  invoke  helper
  create  app/helpers/cowboys_helper.rb
  invoke  test_unit
  create  test/unit/helpers/cowboys_helper_test.rb
  route  resources :cowboys
```







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