

Rails intro

Leffen



Web development that doesn't hurt

Hva er Ruby on Rails - RoR

- Basert på Ruby
- Web rammeverk
- MVC
- Laget av David Heinemeier Hansson
- 2004
- [Http://rubyonrails.org](http://rubyonrails.org)
- Open Source

Installasjon

- OSX / linux : RVM for utvikling
- Windows : <http://railsinstaller.org/>

Viktige verktøy innebygget

- Gems - Komponenter
- Bundler - Versjons håndtering
- Irb - Interaktivt Ruby console for testing

Første kode

\$ rails new demo1

Viktige filer/kataloger :

Gemfile

app

config

public

```
$ rails new demo1
create
create  README.rdoc
create  Rakefile
create  config.ru
create  .gitignore
create  Gemfile
create  app
create  app/assets/images/rails.png
create  app/assets/javascripts/application.js
create  app/assets/stylesheets/application.css
create  app/controllers/application_controller.rb
create  app/helpers/application_helper.rb
create  app/views/layouts/application.html.erb
create  app/mailers/.gitkeep
create  app/models/.gitkeep
create  config
create  config/routes.rb
create  config/application.rb
create  config/environment.rb
create  config/environments
create  config/environments/development.rb
create  config/environments/production.rb
create  config/environments/test.rb
create  config/initializers
create  config/initializers/backtrace_silencers.rb
create  config/initializers/inflections.rb
create  config/initializers/mime_types.rb
create  config/initializers/secret_token.rb
create  config/initializers/session_store.rb
create  config/initializers/wrap_parameters.rb
create  config/locales
create  config/locales/en.yml
create  config/boot.rb
create  config/database.yml
create  db
create  db/seeds.rb
create  doc
create  doc/README_FOR_APP
create  lib
create  lib/tasks
create  lib/tasks/.gitkeep
create  lib/assets
create  lib/assets/.gitkeep
create  log
create  log/.gitkeep
create  public
create  public/404.html
create  public/422.html
create  public/500.html
create  public/favicon.ico
create  public/index.html
create  public/robots.txt
create  script
create  script/rails
create  test/fixtures
create  test/fixtures/.gitkeep
create  test/functional
create  test/functional/.gitkeep
create  test/integration
create  test/integration/.gitkeep
create  test/unit
create  test/unit/.gitkeep
create  test/performance/browsing_test.rb
create  test/test_helper.rb
create  tmp/cache
create  tmp/cache/assets
create  vendor/assets/javascripts
create  vendor/assets/javascripts/.gitkeep
create  vendor/assets/stylesheets
create  vendor/assets/stylesheets/.gitkeep
create  vendor/plugins
create  vendor/plugins/.gitkeep
run bundle install
```

Oppstart

\$ bundle exec rails server

=> Booting WEBrick

=> Rails 3.2.11 application starting in development on http://0.0.0.0:3000

=> Call with -d to detach

=> Ctrl-C to shutdown server

[2013-02-12 06:53:01] INFO WEBrick 1.3.1

[2013-02-12 06:53:01] INFO ruby 1.9.3 (2012-04-20) [x86_64-darwin11.4.0]

[2013-02-12 06:53:01] INFO WEBrick::HTTPServer#start: pid=1735 port=3000



Welcome aboard

You're riding Ruby on Rails!

[About your application's environment](#)

Getting started

Here's how to get rolling:

1. Use `rails generate` to create your models and controllers

To see all available options, run it without parameters.

2. Set up a default route and remove `public/index.html`

Routes are set up in `config/routes.rb`.

3. Create your database

Run `rake db:create` to create your database. If you're not using SQLite (the default), edit `config/database.yml` with your username and password.

Første steg

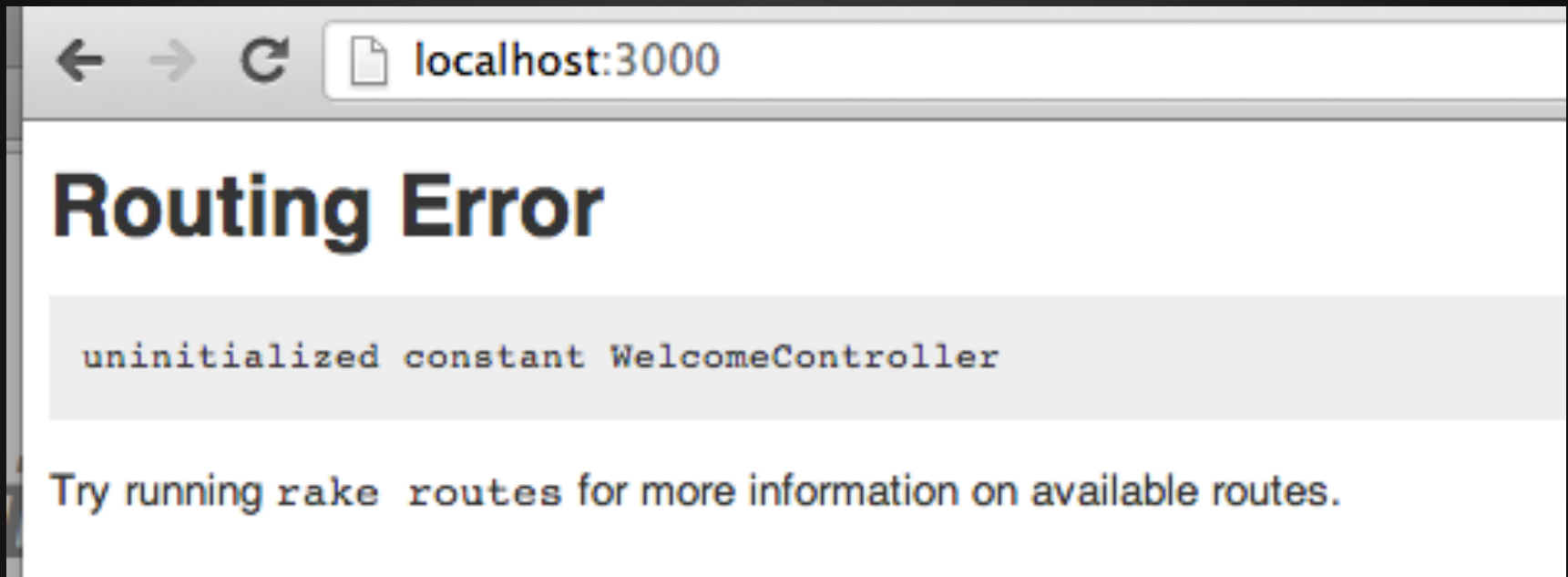
Slett filen public/index.html
edit config/routes.rb

```
# You can have the root of your site routed with "root"  
# just remember to delete public/index.html.  
# root :to => 'welcome#index'
```



```
51 | root :to => 'welcome#index'
```

Ups



```
Started GET "/" for 127.0.0.1 at 2013-02-12 07:31:26 +0100
Connecting to database specified by database.yml
```

```
ActionController::RoutingError (uninitialized constant WelcomeController):
  activesupport (3.2.11) lib/active_support/inflector/methods.rb:230:in `block in constantize'
  activesupport (3.2.11) lib/active_support/inflector/methods.rb:229:in `each'
  activesupport (3.2.11) lib/active_support/inflector/methods.rb:229:in `constantize'
```



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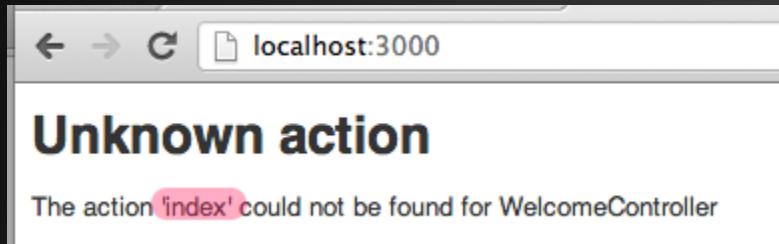
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Vår første kontroller

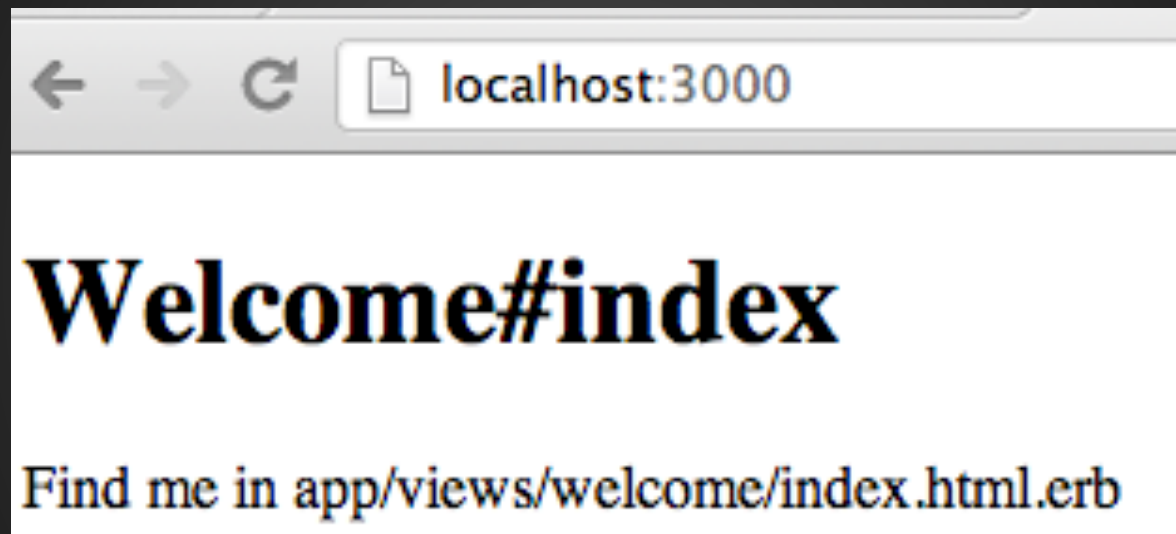
```
$ ./bin/rails g controller Welcome  
  create  app/controllers/welcome_controller.rb  
  invoke  erb  
  create  app/views/welcome  
  invoke  test_unit  
  create  test/functional/welcome_controller_test.rb  
  invoke  helper  
  create  app/helpers/welcome_helper.rb  
  invoke  test_unit  
  create  test/unit/helpers/welcome_helper_test.rb  
  invoke  assets  
  invoke  coffee  
  create  app/assets/javascripts/welcome.js.coffee  
  invoke  scss  
  create  app/assets/stylesheets/welcome.css.scss
```

Ups2



```
$ ./bin/rails g controller Welcome index
conflict app/controllers/welcome_controller.rb
Overwrite /Users/leffen/p/t/demo1/app/controllers/welcome_controller.rb
force app/controllers/welcome_controller.rb
route get "welcome/index"
invoke erb
exist app/views/welcome
create app/views/welcome/index.html.erb
invoke test_unit
conflict test/functional/welcome_controller_test.rb
force test/functional/welcome_controller_test.rb
invoke helper
identical app/helpers/welcome_helper.rb
invoke test_unit
identical test/unit/helpers/welcome_helper_test.rb
invoke assets
invoke coffee
identical app/assets/javascripts/welcome.js.coffee
invoke scss
identical app/assets/stylesheets/welcome.css.scss
```

Sukses



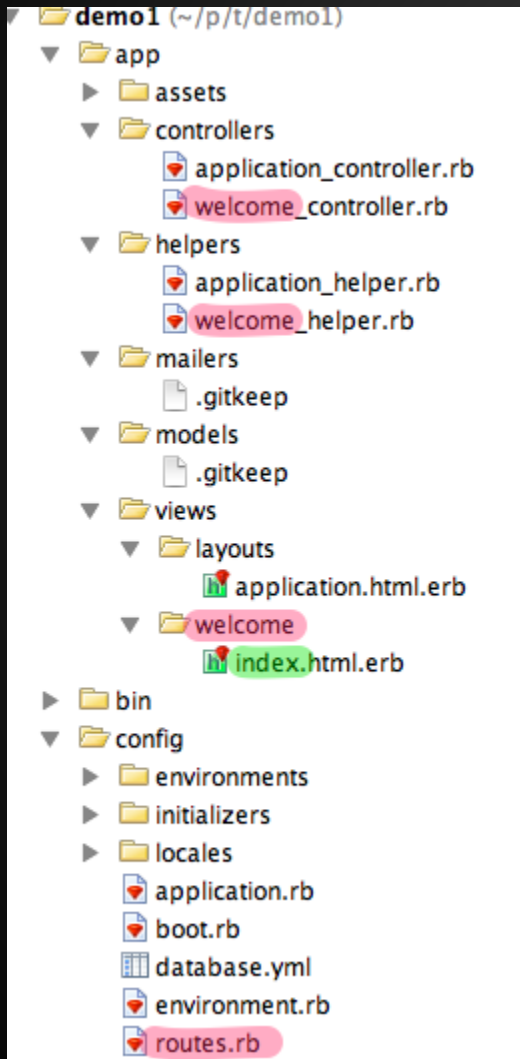
Så hva har vi gjort

Rails er ett MVC ramme verk
Model - View - Controller

Vi har laget en kontroller som svarer på ruten :
`root :to => 'welcome#index'`

`root = /` i applikasjonen

Welcome



```
class WelcomeController < ApplicationController
  def index
  end
end
```

```
module WelcomeHelper
end
```

```
<h1>Welcome#index</h1>
<p>Find me in app/views/welcome/index.
html.erb</p>
```

```
root :to => 'welcome#index'
```


Scaffolding

```
$rails generate scaffold HighScore game:string score:integer  
$rake db:migrate  
$rails s
```

ALT I EN LØSNING

Model - app/models/high_score.rb

Kontroller - app/controllers/high_scores_controller.rb

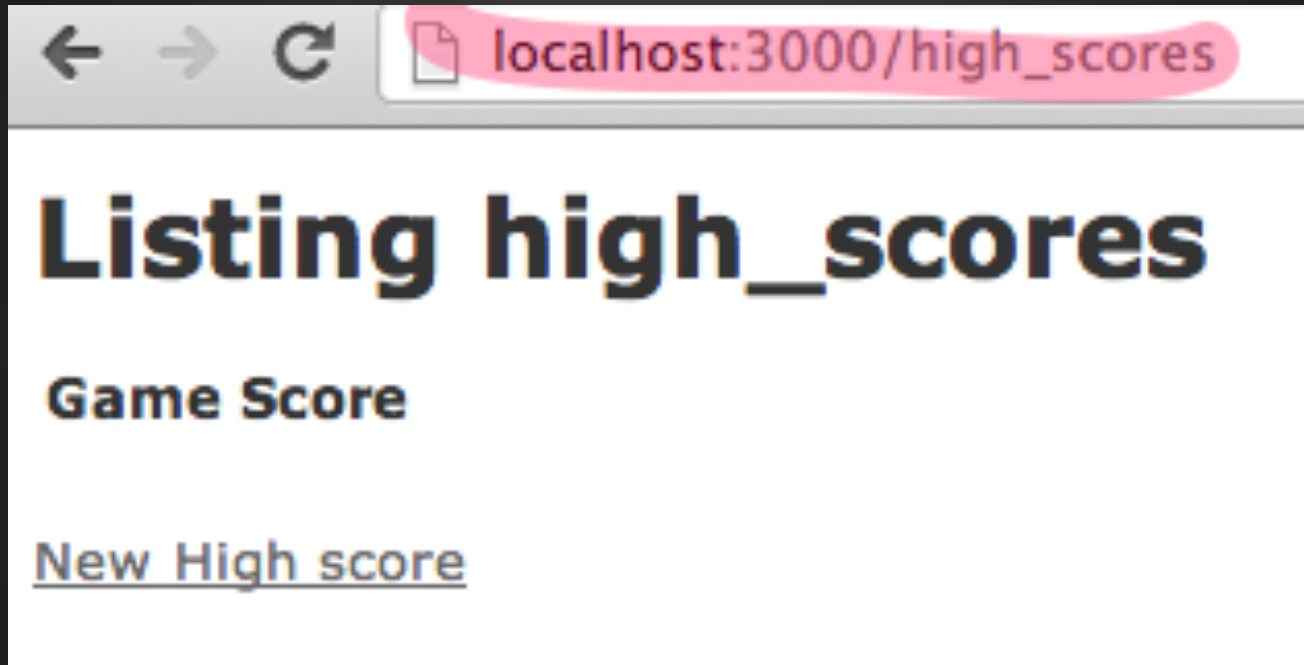
Views - app/views/high_scores (index,edit,show,new,_form)

Tester - test/unit/high_score_test.rb , test/fixtures/high_scores.yml

Assets - css,coffee

Helpers - For view og tester

\$bundle exec rails server



Oppdatere hjemmesiden

```
<h1>Velkommen</h1>
```

```
<p>Sjekk ut <%= link_to "HighScores",  
high_scores_path %> </p>
```

Database migrering

db/migrate

>20130212071443_create_high_scores.rb

Kode

```
class CreateHighScores < ActiveRecord::Migration
  def change
    create_table :high_scores do |t|
      t.string :game
      t.integer :score

      t.timestamps
    end
  end
end
```

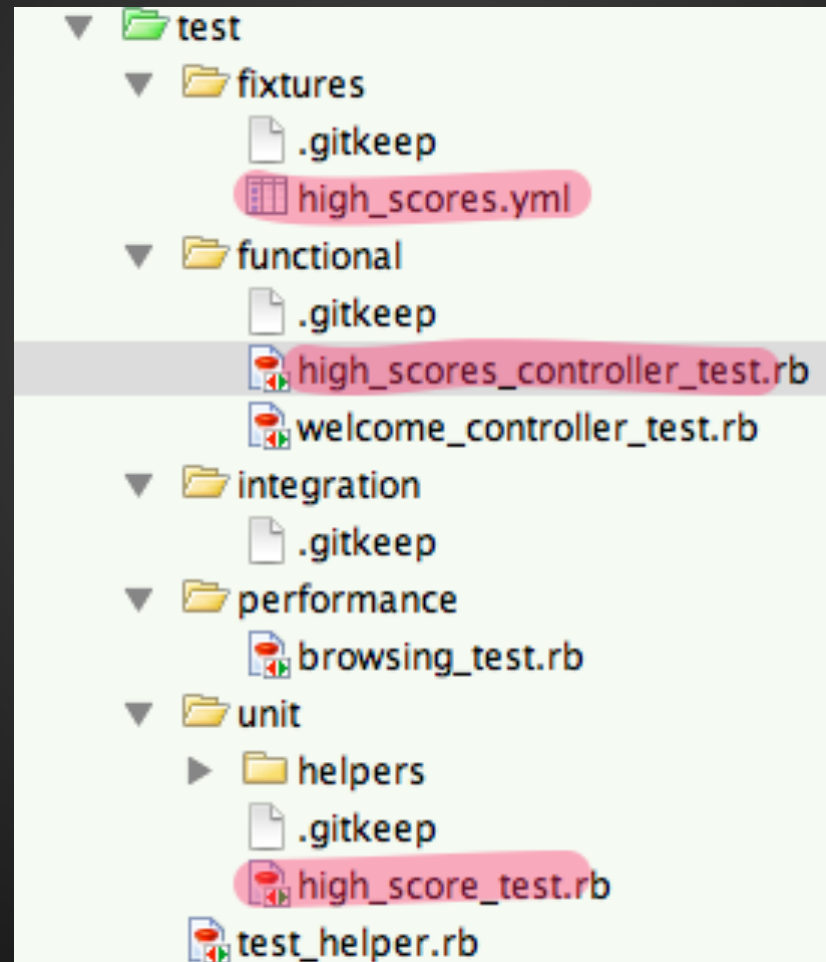
rake db:migrate

Database modell

app/models/high_score.rb

```
class HighScore < ActiveRecord::Base  
  attr_accessible :game, :score  
end
```

Tester



Resten tar vi i hacking sesjonen

Da har vi laget en liten og virksom Rails applikasjon som vi kan jobbe videre med senere.

Koden finner dere på :