

Lezione 4: Introduzione a Rails

Matteo Vaccari

<http://matteo.vaccari.name/>
matteo.vaccari@uninsubria.it

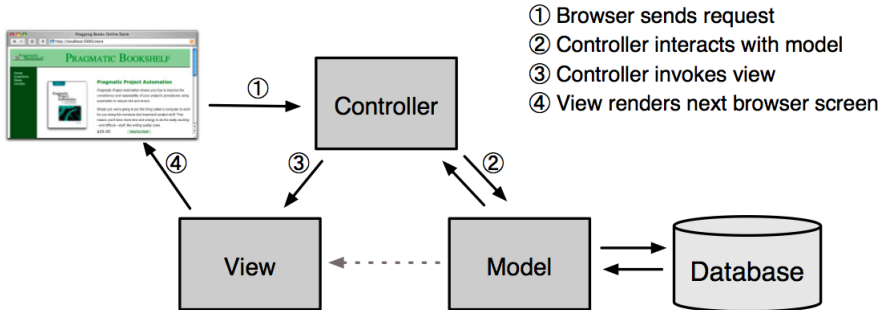


(cc) Matteo Vaccari. Published in Italy.
Attribution – Non commercial – Share alike 2.5

Il nostro vecchio amico CGI-quotes

```
#!/usr/bin/env ruby
puts "Content-Type: text/html\r\n"
puts "\r\n"
puts "<html>" # view
puts "<head><title>Quote of the day</title></head>" # view
puts "<body>" # view
puts "<h1>Quote of the day!!</h1>" # view
require 'cgi'
cgi = CGI.new
param = cgi["q"] # interaction
quotes = File.new("/tmp/quotes.txt").read.split("%") # persistency
if param.length > 0 # interaction
  quotes = quotes.select { |quote| quote.include?(param) } # business logic
end
puts "<pre>" + quotes[rand(quotes.size)] + "</pre>" # view
puts "</body>" # view
puts "</html>" # view
```

II pattern model-view-controller



Agile Web Development With Rails, by Heinemeier Hansson and Thomas

Rails slogans

- ▶ Succinctness is power

— Paul Graham

- ▶ DRY—Don't Repeat Yourself

Every piece of knowledge must have a single, unambiguous, authoritative representation within a system.

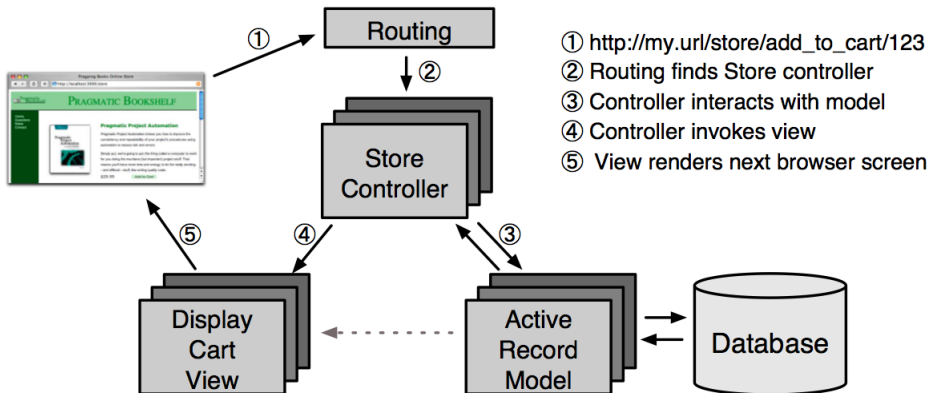
— The Pragmatic Programmers

- ▶ Rails is a framework for writing applications

with joy and less code than most frameworks spend doing XML

— David Heinemeier Hansson

II pattern MVC in Rails



Hello world!

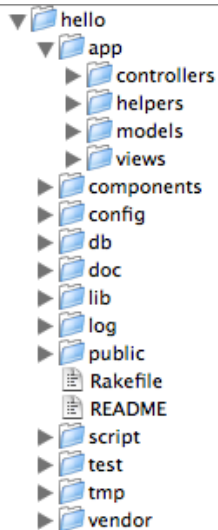
Come ottenere un hello, world?

- ▶ rails hello
- ▶ cd hello
- ▶ script/server
- ▶ script/generate controller Hello
- ▶ def index; render :text => "Hello, world!"; end

Hello, world! (i)

```
$ rails hello
  create
  create  app/controllers
  create  app/helpers
  create  app/models
  create  app/views/layouts
  create  config/environments
  create  components
      :      :
  create  log/test.log
$
```

Directory



Hello, world! (ii)

```
$ script/server
```

```
=> Booting WEBrick...
```

```
=> Rails application started on http://0.0.0.0:3000
```

```
=> Ctrl-C to shutdown server; call with -help for options
```

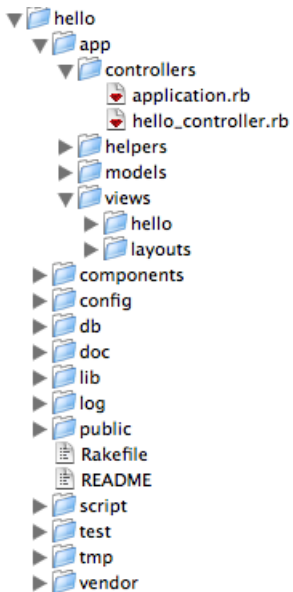
```
[2006-10-17 16:34:44] INFO WEBrick 1.3.1
```

```
[2006-10-17 16:34:44] INFO ruby 1.8.4 (2005-12-24) [i686-darwin8.6.
```

```
[2006-10-17 16:34:44] INFO WEBrick::HTTPServer#start: pid=334 port=
```

Hello, world! (iii)

```
$ script/generate controller Hello
  exists  app/controllers/
  exists  app/helpers/
  create  app/views/hello
  exists  test/functional/
  create  app/controllers/hello_controller.rb
  create  test/functional/hello_controller_test.rb
  create  app/helpers/hello_helper.rb
$
```



Hello, world! (iv)

app/controllers/hello_controller.rb

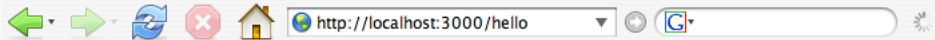
```
class HelloController < ApplicationController
  def index
    render :text => "Hello, world!"
  end
end
```

app/views/hello/index.rhtml

```
Hello from the view!
```



Mozilla Firefox



http://localhost:3000/hello



Hello from the view!

Done

Esercizio: un servizio citazioni

1. `http://example.com/`
ridirige su `http://example.com/quotes?random`
2. `http://example.com/quotes?random`
produce una citazione a caso
3. `http://example.com/quotes`
produce le prime 10 citazioni
4. `http://example.com/quotes/123`
produce la citazione numero 123
5. `http://example.com/quotes?count=20`
produce le prime 20 citazioni
6. `http://example.com/quotes?start=12`
produce 10 citazioni a partire dalla dodicesima

Il “database” è un semplice file che contiene le citazioni separate dalla stringa “%”