

Ruby on Rails

Peak IT, 17 September 2008

Joost Hietbrink?

www.linkedin.com/in/joosthietbrink



www.yelloyello.com



World > NL > Rotterdam > O'Pazzo Restaurant

O'Pazzo Restaurant



Mariniersweg 90
3011 NV Rotterdam
Zuid-Holland
t. 010-2827107
f. 010-2135671
info@opazzo.nl
www.opazzo.nl

Tags: restaurant, pizzeria, Italiaans

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Dinnershow in Rotterdam

Gegarandeerd een gezellige avond met collega's, familie of vrienden



Reviews (4)

Foto's (3)

Informatie

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Volgorde: Datum ▾ | Score | Informatief | Grappig | Cool



Frank_3031

11 0 580

[Stuur bericht](#) [Toon alle reviews](#)



20 januari 2007

Erg lekker eten! De pizza 'casa bianca' is mijn favoriet. Als de wachttijd wat minder zou zijn en de bedrijfsleider wat vriendelijker, dan zou het success wellicht nog groter kunnen zijn.

Geef commentaar! Ik vind deze review: [Informatief \(0\)](#) - [Grappig \(0\)](#) - [Cool \(0\)](#)

Aanpassen Verwijderen

[Verwijderen](#) [Inpassen](#)

Wie / Wat?

categorie, tag of naam

Waar?

stad, streek of postcode

Zoeken!

Site moderator actions

Revisions

Verwijderen



Zoek ... in de buurt. [Full-screen!](#)

Routebeschrijving hierheen

Van e.g. 'patrijsweg 68, rijswijk, nederland'

Hoogstraat 31d, 3011PE Ro

[Versturen](#)

Italiaans Restaurant

Vind Restaurants bij u in de Buurt snel & makkelijk op [Marktplaats.nl!](#)
www.Marktplaats.nl/Restaurants



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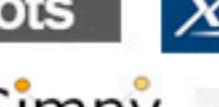
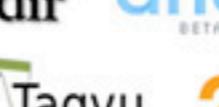
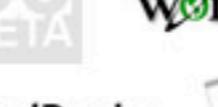
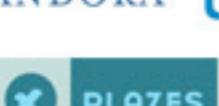
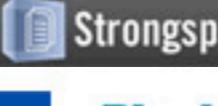
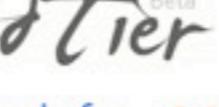
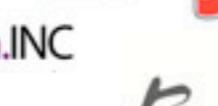
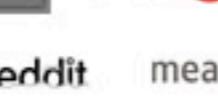
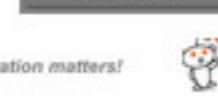
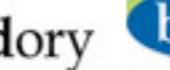
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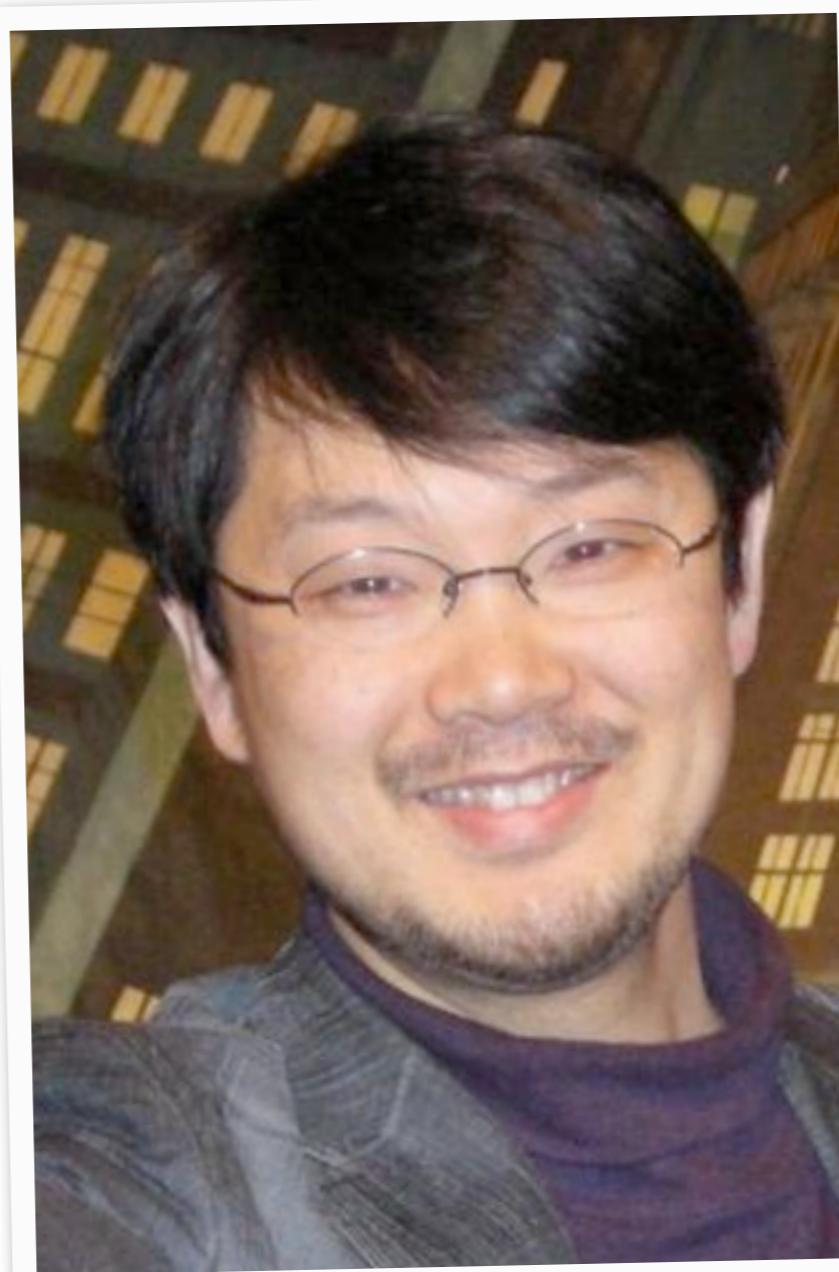
Gtalkr

BETA



source: [http://en.wikipedia.org/wiki/Ruby_\(programming_language\)](http://en.wikipedia.org/wiki/Ruby_(programming_language))

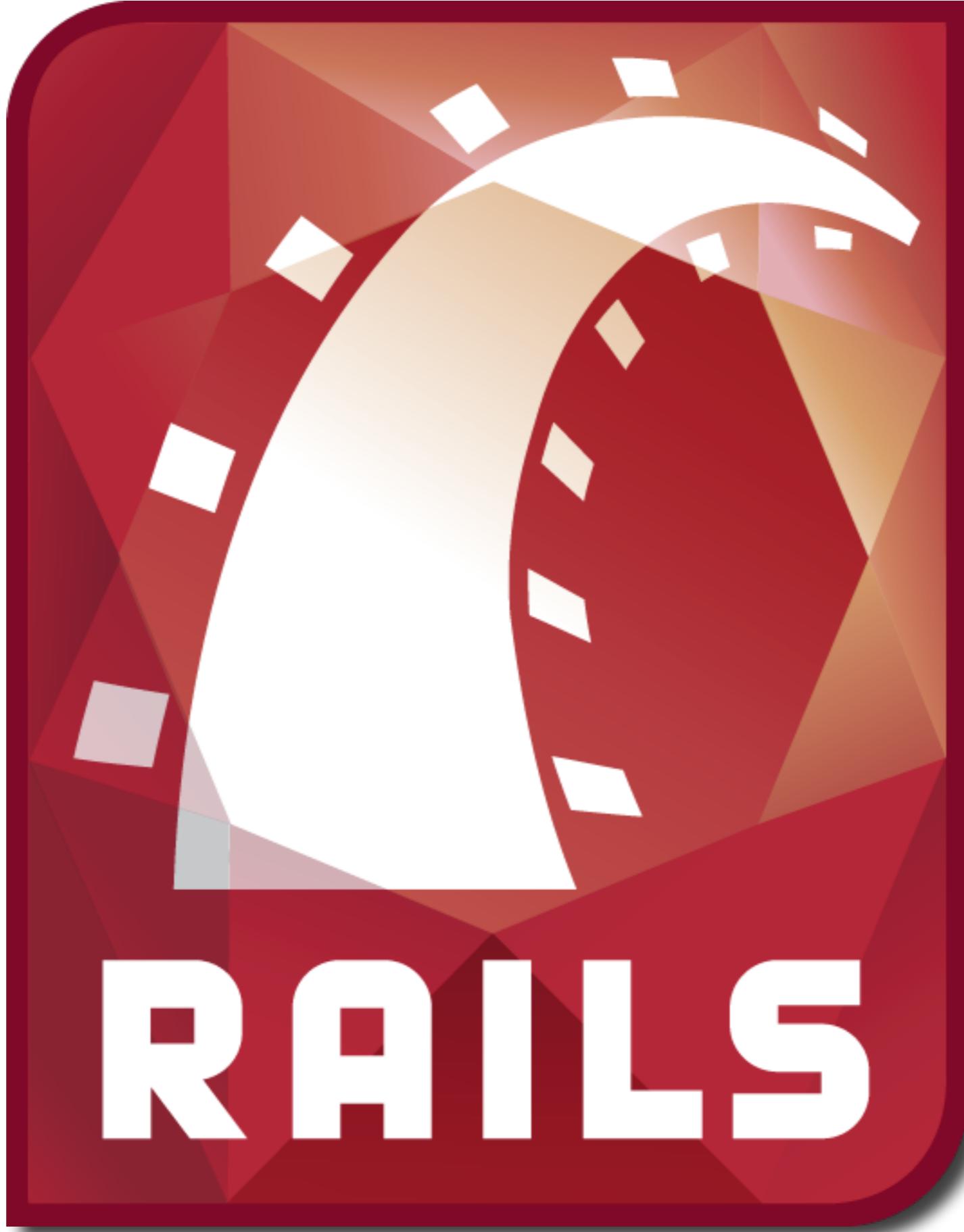
- Birthday: 24 February 1993
- v1.0: 25 December 1996
- “more powerful than Perl, and more OO than Python”
- 99.9% Object Oriented



Yukihiro 'Matz' Matsumoto, creator of Ruby.

try ruby! (in your browser)

<http://tryruby.hobix.com/>



- Birth: July 2004
- Shipped with OSX Leopard
- Latest: 2.1.1: 4 September 2008



WEB SITES

The Hottest Hacker on Earth

David Heinemeier Hansson could be mistaken for a Gap model. The Danish 26-year-old's blog is filled with glam photos of himself, his friends at parties, and his hot girlfriend. But Hansson is actually the first Google-O'Reilly hacker of the year (2005), an über-geeky nod for producing Ruby on Rails.

RoR establishes a simple, open source framework for using the equally simple programming language Ruby. In RoR, commands look like sentences, and limited choices make it tough for Web developers to get lost or tangled up in code. As a partner at 37signals in Chicago, Hansson uses RoR to write software for the popular project-management tools Basecamp and Backpack.

RoR also makes it easy for developers to work with AJAX (short for Asynchronous JavaScript and XML), the technology that lets them do cool stuff like move folders and scroll through maps on a Web page. "It's like a color-by-numbers system," says Derek Sivers, founder of CD Baby, who's rebuilding his entire site with RoR. And that's been Hansson's goal all along – to fundamentally remake the way Web sites are built. As he puts it, "We've already slaughtered a whole herd of holy cows." – Nicholas Thompson

David 'dhh' Heinemeier Hansson

Ruby on Rails vs.

Java

PHP

.NET

ColdFusion

Django

...



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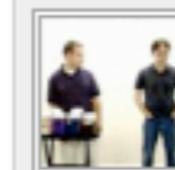
Ruby on Rails vs Java - RailsEnv.com Commerical



Rate: ★★★★☆

338 ratings

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From: envyads

Added: May 13, 2007

(more info)

Gregg Pollack and Jason Seifer from RailsEnv.com d

URL <http://www.youtube.com/watch?v=PQbuyKUaKF>

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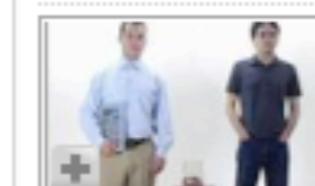
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[Ruby on Rails demo](#)

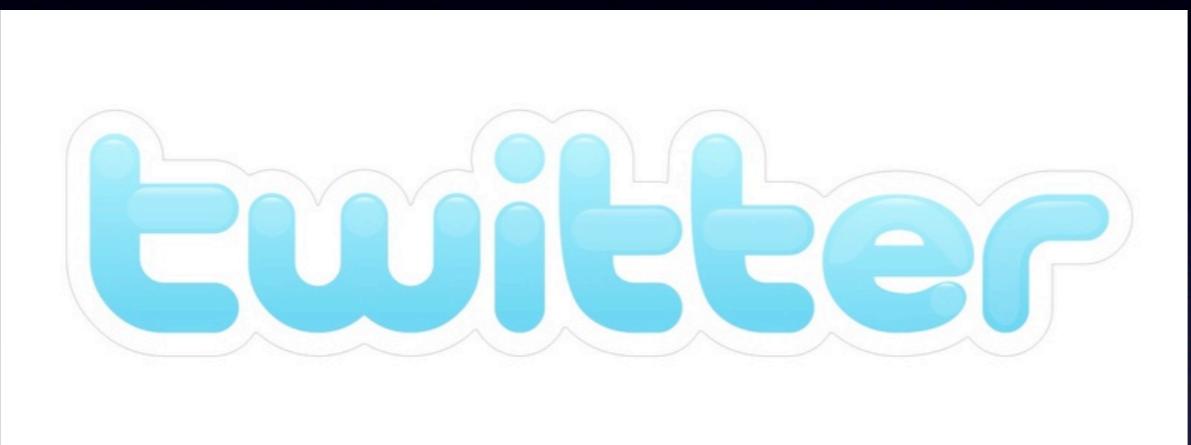
16:10 From: tenthconcept

Views: 80,679



[Ruby on Rails VS Django -
RailsEnv.com commercial #7](#)

Websites on Rails



Companies using Rails





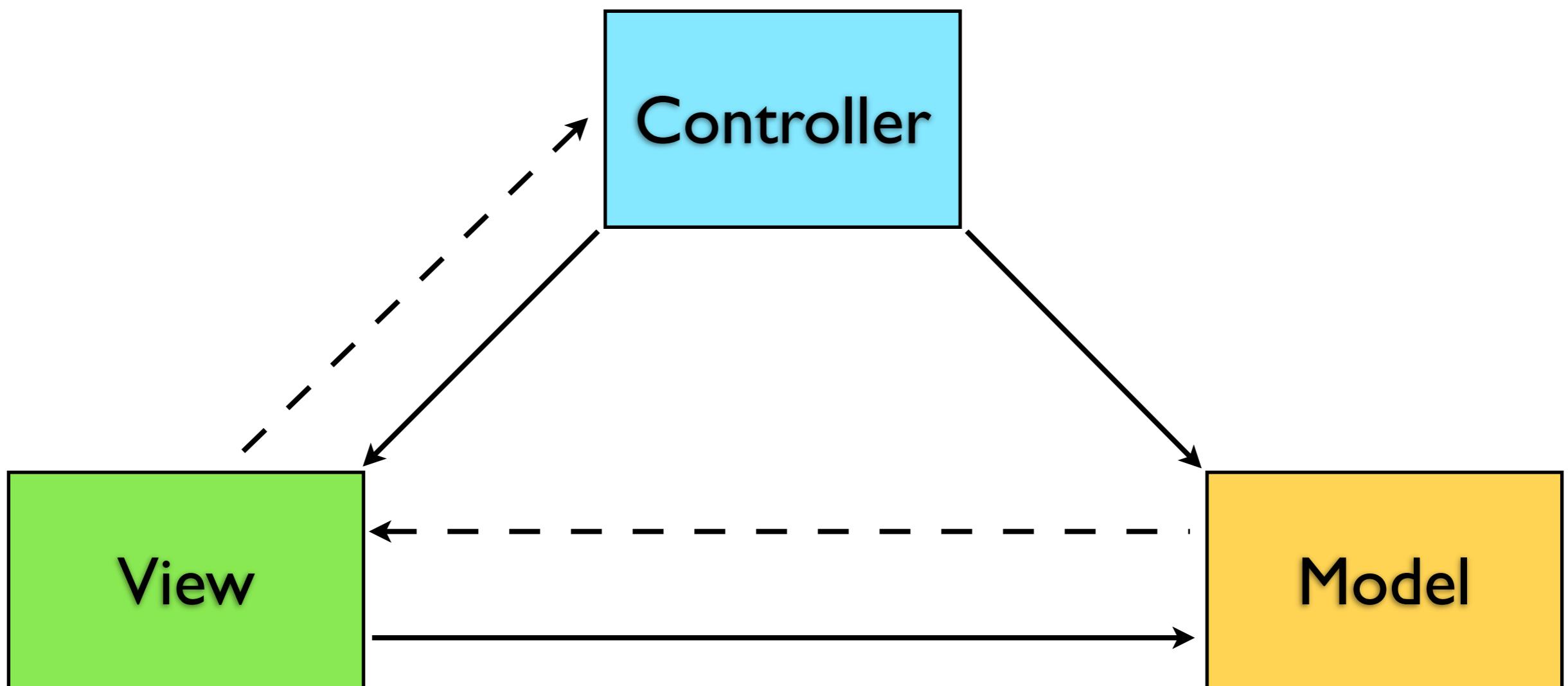
The Framework

source: <http://flickr.com/photos/charlesbodi/236037049/>

- Convention over Configuration
- Agile Programming principle
- DRY

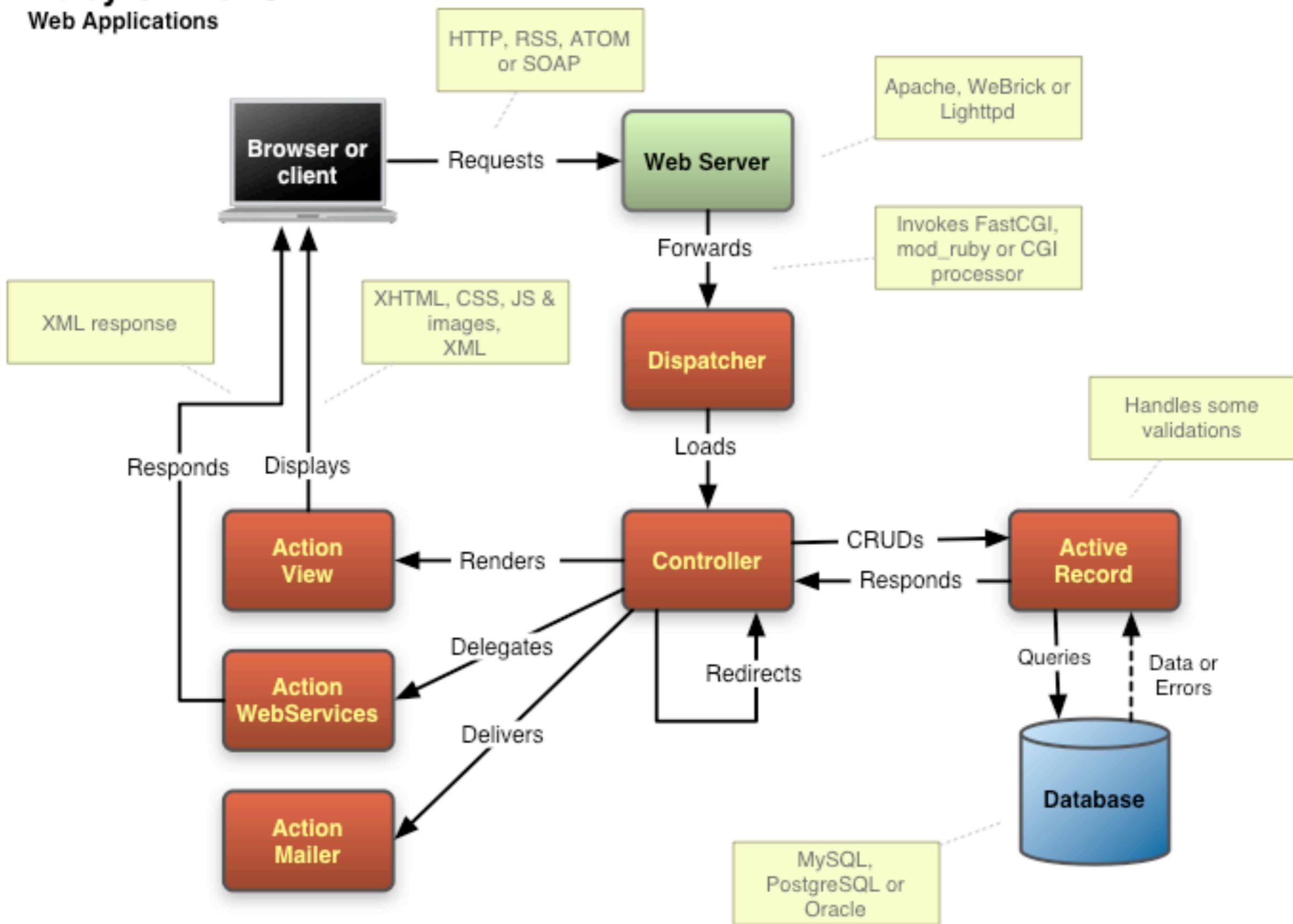
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  controllers
  helpers
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config
  environments
  initializers
db
doc
lib
  tasks
log
public
  images
  javascripts
  stylesheets
script
  performance
  process
test
  fixtures
  functional
  integration
  unit
...
...
```

Framework (MVC)



Ruby on Rails

Web Applications



A photograph of five women standing in a row, all wearing cowboy hats and sequined tops. They are looking towards the left of the frame. The woman on the far left is wearing a white top with gold lettering. The second woman from the left is wearing a light-colored vest over a white top. The third woman is wearing a pink top with sequins. The fourth woman is wearing a white top with gold lettering. The woman on the far right is wearing a blue top.

Models

source: <http://flickr.com/photos/74982136@N00/252447564>

ActiveRecord

source: <http://media.rubyonrails.org/presentations/pursuitofbeauty.pdf>

```
class Account < ActiveRecord::Base
  validates_presence_of    :subdomain, :name, :email_address, :password
  validates_uniqueness_of  :subdomain
  validates_acceptance_of  :terms_of_service, :on => :create
  validates_confirmation_of :password, :email_address, :on => :create
end
```

```
class Project < ActiveRecord::Base
  belongs_to :portfolio
  has_one :project_manager
  has_many :milestones
  has_and_belongs_to_many :categories
end
```

```
class Project < ActiveRecord::Base
  belongs_to :portfolio
  has_one :project_manager, :class_name => "Person"
  has_many :milestones, :dependent => true
  has_and_belongs_to_many :categories, :join_table => "categorizations"
end
```

```
class Account < ActiveRecord::Base
  has_many :people do
    def find_or_create_by_name(name)
      first_name, *last_name = name.split
      last_name = last_name.join " "
      find_or_create_by_first_name_and_last_name(first_name, last_name)
    end
  end
end

person = Account.find(:first).people.find_or_create_by_name("Richard Feynman")
person.first_name # => "Richard"
person.last_name # => "Feynman"
```

```
class Post < ActiveRecord::Base
  has_many :comments
end

class Comment < ActiveRecord::Base
  def self.search(query)
    find(:all, :conditions => [ "body = ?", query ])
  end
end

# SELECT * from comments WHERE post_id = 1 AND body = 'hi'
Post.find(1).comments.search "hi"
```

```
class Story < ActiveRecord::Base
  belongs_to :iteration
  acts_as_list :scope => :iteration
end

story.move_higher
story.move_to_bottom
```

```
class Author < ActiveRecord::Base
  has_many :authorships
  has_many :books, :through => :authorships
end

class Book < ActiveRecord::Base
  has_many :authorships
  has_many :authors, :through => :authorships
end

class Authorship < ActiveRecord::Base
  belongs_to :author
  belongs_to :book
end

david, awrd = Author.find(1), Book.find(1)
david.authorships.create(
  :book => awrd, :contribution => "partial", :written_in => "Denmark"
)

david.authorships.first.written_in # => "Denmark"
david.books.first # => awrd
```

```
class Person < ActiveRecord::Base
  has_many :taggings, :as => :taggable, :dependent => true
  has_many :tags, :through => :taggings
end

class Message < ActiveRecord::Base
  has_many :taggings, :as => :taggable, :dependent => true
  has_many :tags, :through => :taggings
end

class Tagging < ActiveRecord::Base
  belongs_to :tag
  belongs_to :taggable, :polymorphic => true
end

class Tag < ActiveRecord::Base
  has_many :taggings

  def on(*taggables)
    taggables.each { |taggable| taggings.create :taggable => taggable }
  end

  def tagged
    taggings.collect { |tagging| tagging.taggable }
  end
end
```

```
david = Person.find(1)
welcome = Message.find(1)
summer = Tag.find_or_create_by_name "Summer"

summer.on(david, welcome)

david.tags # => [ summer ]
welcome.tags # => [ summer ]

summer.tagged # => [ david, welcome ]
```

```
class Person < ActiveRecord::Base
  acts_as_taggable
end
```

```
class Message < ActiveRecord::Base
  acts_as_taggable
end
```



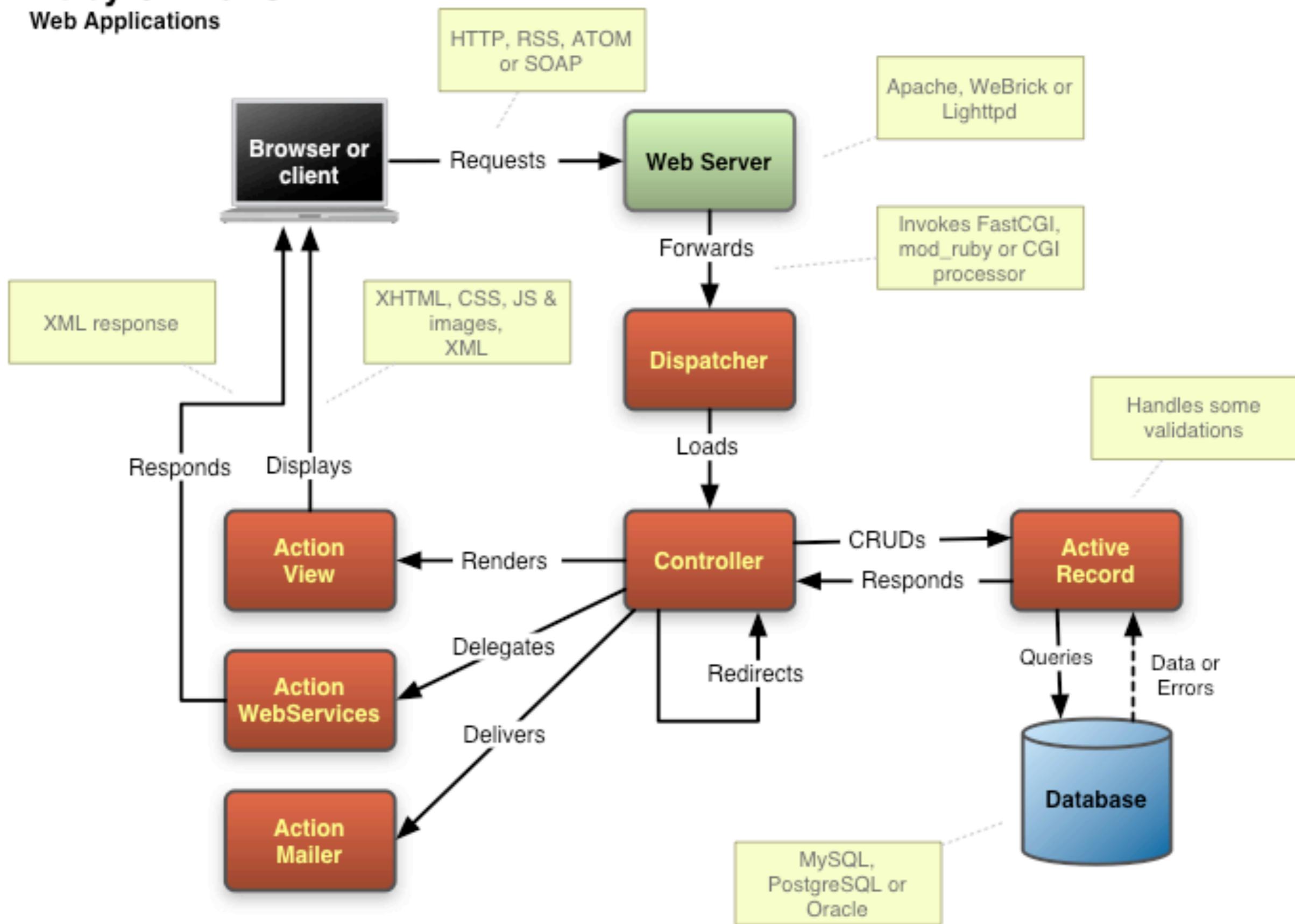
Fat Models

ActionController

source: <http://flickr.com/photos/sameli/261307204/>

Ruby on Rails

Web Applications



```
ActionController::Routing::Routes.draw do |map|
  # The priority is based upon order of creation: first created -> highest priority
  # Sample of regular route:
  map.connect 'products/:id', :controller => 'catalog', :action => 'view'
  map.purchase 'products/:id/purchase', :controller => 'catalog', :action => 'purchase'
  # Keep in mind you can assign values other than :controller and :action
  # Sample resource route (maps HTTP verbs to controller actions automatically)
  map.resources :products

  # You can have the root of your site routed with map.root -- just remember to
  map.root :controller => "welcome"

  # See how all your routes lay out with "rake routes"
  # Install the default routes as the lowest priority.
  map.connect ':controller/:action/:id'
  map.connect ':controller/:action/:id.:format'
end
```

```
class ProductsController < ApplicationController
  # GET /products
  # GET /products.xml
  def index
    @products = Product.find(:all)

    respond_to do |format|
      format.html # index.html.erb
      format.xml { render :xml => @products }
    end
  end

  # GET /products/1
  # GET /products/1.xml
  def show
    @product = Product.find(params[:id])

    respond_to do |format|
      format.html # show.html.erb
      format.xml { render :xml => @product }
    end
  end

  # GET /products/new
  # GET /products/new.xml
  def new
    @product = Product.new

    respond_to do |format|
      format.html # new.html.erb
      format.xml { render :xml => @product }
    end
  end
```

RESTful

Resources

HTTP verb	Controller Action	CRUD Action	URL
GET	show	READ	/products/ /products/.xml
POST	create	CREATE	/products
PUT	update	UPDATE	/products/ /products/.xml
DELETE	destroy	DESTROY	/products/ /products/.xml

GET	new	/products/new
GET	index	/products
GET	edit	/products/ /products/.xml/edit

source: <http://rubyenrails.nl/articles/2006/11/02/restful-rails>



ActionView

source: <http://flickr.com/photos/bocavermelha/66759796/>

```
<p>
  <b>Name:</b>
  <%=h @product.name %>
</p>

<%= link_to 'Edit', edit_product_path(@product) %> |
<%= link_to 'Back', products_path %>
```

action.mimetype.renderer

show.html.erb
index.rss.builder
edit.iphone.haml

Generate
instead of
Create

DRY vs. DRO



How to build a blog engine in 15 minutes with Ruby on Rails

<http://www.rubyonrails.org>

By David Heinemeier Hansson,
originally prepared for the FISL 6.0 conference in Brazil 2005

source: http://media.rubyonrails.org/video/rails_take2_with_sound.mov

Demo?!

?

Joost Hietbrink
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joost@joopp.nl
06 |4 89 65 4|

More info

- rubyonrails.org
- railscasts.com
- peepcode.com
- rubyenrails.nl
- [slideshare.net:](http://slideshare.net)
 - <http://www.slideshare.net/mattb/coding-on-the-shoulders-of-giants>

Other interesting stuff..

- [http://www.slideshare.net/daveman692/
supporting-the-open-web-oscon-2008](http://www.slideshare.net/daveman692/supporting-the-open-web-oscon-2008)
- <http://microformats.org/>
- <http://www.dataportability.org/>
- <http://git.or.cz/>

How to create a
MP3 Playing Alarm Clock
in Ruby?

sleep 7.hours
%x(open ~/heaven-sent.mp3)