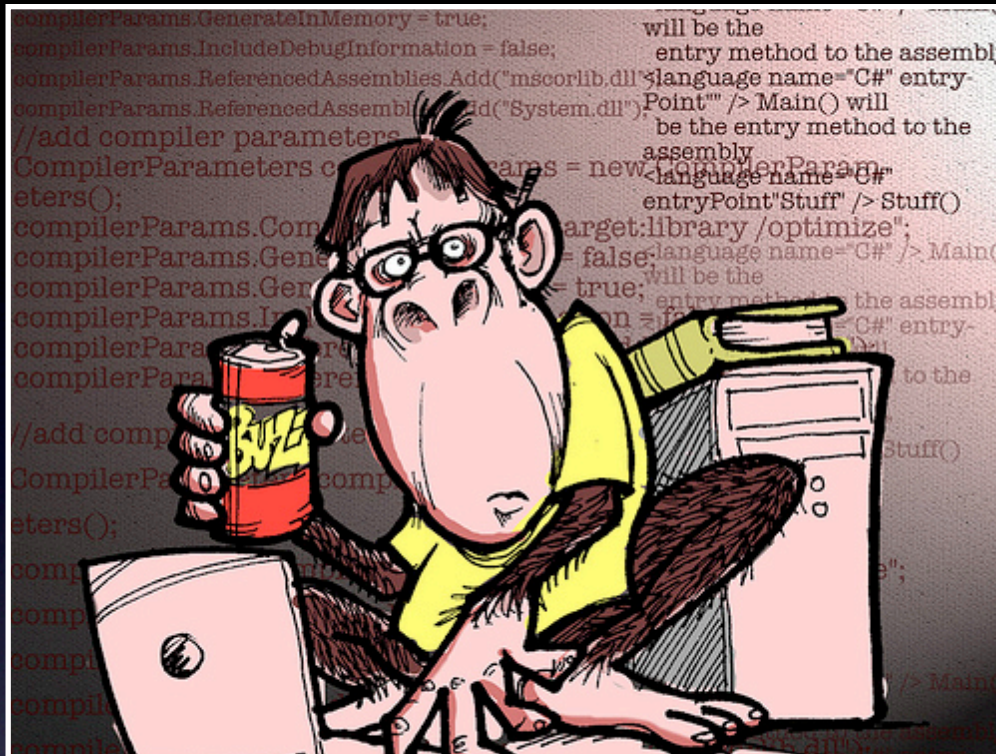


# Beginning Rails

Ruby Fools 2008 - Copenhagen





# About Me

Cloves Carneiro Jr.

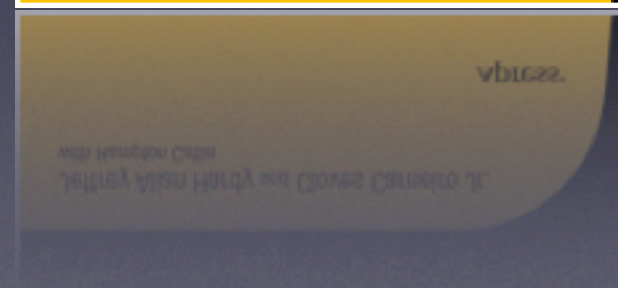
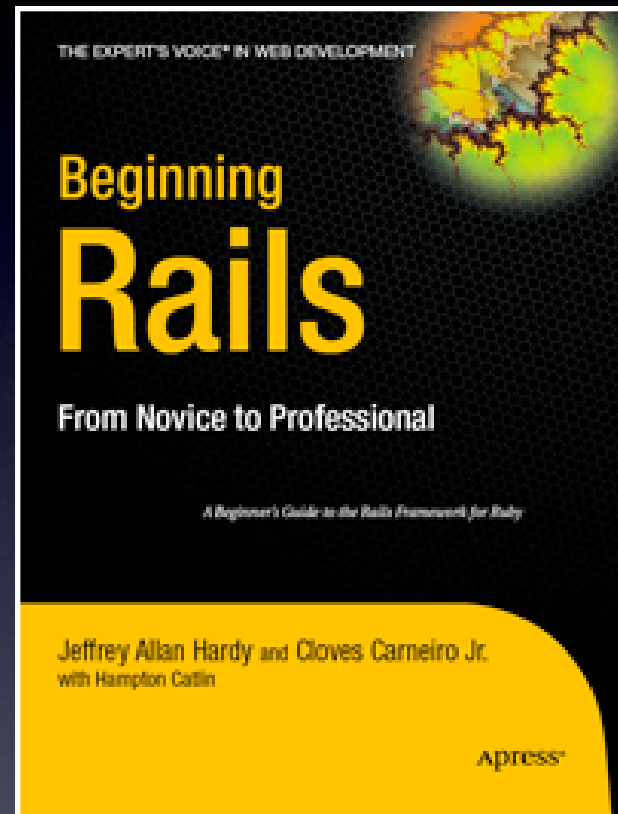
[ccjr@spinbits.com](mailto:ccjr@spinbits.com)





# My Book

Beginning Rails  
From Novice to Professional



# The Good Web Framework

- Full stack
- Open source
- Cross platform



# Ruby on Rails

- Agile
- Less Software
- Convention over Configuration
- Rails is Ruby
- MVC

# The Layers of MVC

- Model
- View
- Controller



# Model

- Objects represent the database
- Code

```
Event.find :all
```

```
self.update_attribute :title, '@ Ruby Fools'
```

- ActiveRecord

# View

- Renders the visible part of the application
- `ActionView`



# Controller

- Code:

```
class EventsController << ApplicationController
  def index
    # logic to list events
  end
end
```

- ActionController

# You will need

- Ruby
- RubyGems
- Rails
- MySQL - or another database



# Creating a new app

- `creteil:~/code$ rails events`

```
create
```

```
create app/controllers
```

```
create app/helpers
```

```
create app/models
```

```
create app/views/layouts
```

- `creteil:~/code$ cd events`

- `creteil:~/code/events$ ./script/server`



## Welcome aboard

You're riding Ruby on Rails!

[About your application's environment](#)

### Getting started

Here's how to get rolling:

1. Create your databases and edit `config/database.yml`

Rails needs to know your login and password.

2. Use `script/generate` to create your models and controllers

To see all available options, run it without parameters.

3. Set up a default route and remove or rename this file

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

Search the Rails site

### Join the community

[Ruby on Rails](#)

[Official weblog](#)

[Mailing lists](#)

[IRC channel](#)

[Wiki](#)

[Bug tracker](#)

### Browse the documentation

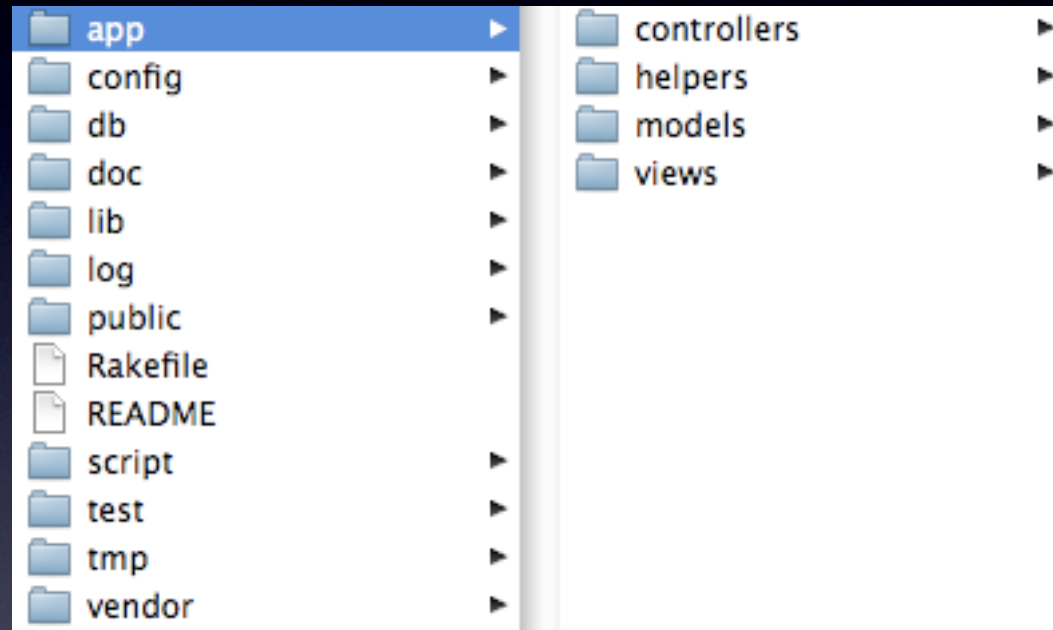
[Rails API](#)

[Ruby standard library](#)

[Ruby core](#)

# Up and Running





# Directory structure

Let's create the events  
application



```
creteil:~/code/events$ ./
script/generate scaffold
event title:string
location:string
occurs_on:date
description:text
```

# Migration

- Code:

```
create_table :events do |t|  
  t.string :title  
  t.string :location  
  t.date :occurs_on  
  t.text :description  
  t.timestamps  
end
```

- Ruby-based



# Model

- Code:

```
class Event < ActiveRecord::Base  
  
end
```

# View

## Listing events

Title	Location	Occurs on	Description
RubyFools	Copenhagen, Denmark	2008-04-01	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>
RubyFools	Oslo, Norway	2008-04-03	<a href="#">Show</a> <a href="#">Edit</a> <a href="#">Destroy</a>

[New event](#)

[New event](#)



# Controller

- Code:

```
def index

  @events = Event.find(:all)

  respond_to do |format|

    format.html # index.html.erb

    format.xml { render :xml => @events }

  end

end
```

# Improvements

- **Add validation**  
`validates_presence_of :title, :location`
- **Extend functionality**



# Plugins

- Mechanism to easily extend Rails
- Some examples
  - restful\_authentication
  - acts\_as\_taggable\_on\_steroids
  - haml
  - ...
- <http://agilewebdevelopment.com/plugins>

Events

http://localhost:3000/events

Apple Yahoo! Google Maps YouTube News (356) Popular COMP 466 post to del.icio.us Add Whizmark

Login Sign up

## Events

Tab #1 Tab #2 Tab #3

### Listing events

Title	Location	Occurs on	Description
RubyFools	Copenhagen, Denmark	2008-04-01	Show Edit Destroy
RubyFools	Oslo, Norway	2008-04-03	Show Edit Destroy

New event

#### Header

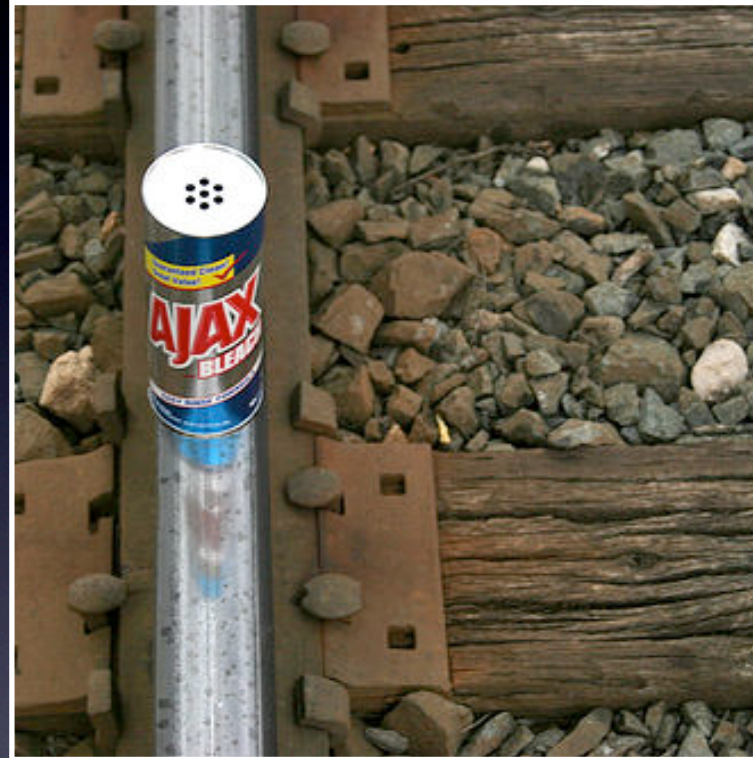
content of block

---

Events - All right reserved

# Custom layout





Ajax on Rails

# RoR makes Ajax easy

- Prototype + script.aculo.us
- link\_to **becomes** link\_to\_remote
- form\_for **becomes** remote\_form\_for
- Plugins for auto-complete, drag & drop, sortable list



# RJS templates

- Generates Javascript code from Ruby

```
page.hide dom_id(@event)
```

**becomes**

```
try {  
  
Element.hide("event_16");  
  
} catch (e) { .. }
```

# Things that help

- **Freeze Rails**

```
rake rails:freeze:edge  
rake rails:freeze:gems
```

- **API at fingertips**

```
rake docs:rails
```



# Summary

- Rails is simple
- Rails is powerful
- Rails is comprehensive
- Have fun



Thank you