

# Ruby on Rails

Webentwicklung von morgen?



# Wir bauen gleich eine Seite.



The screenshot shows a Mozilla Firefox browser window with the title 'Egg-Drop-Database - Mozilla Firefox'. The address bar shows 'http://localhost:4711/'. The page content includes a cartoon duck holding an egg, a title 'Egg-Drop-Database, die ultimative', a paragraph of text, and a table with three columns: 'Eggdropper', 'Jahr', and 'Erbauer'. The table lists various egg dropper projects and their creators. The browser's status bar at the bottom shows 'Done' and 'Adblock'.

**Egg-Drop-Database, die ultimative**

Es war einmal vor langer, langer Zeit in Passau, der schönsten Stadt weit und breit, eine Gruppe von Informatikern, die Eier durch die Gegend warf. Jaja, und so begab es sich...

Eggdropper	Jahr	Erbauer
Safe Egg XXL	2005	<a href="#">Horst</a>
KillerDropper 2	2003	<a href="#">Malte</a>
Dont break my egg!	2005	<a href="#">Wiebke</a>
EggRescuer Deluxe	2000	<a href="#">Malte</a>
Egg van Schleck	2000	<a href="#">Xavier</a>
Safe Egg XL	2004	<a href="#">Horst</a>
Hen's best friend	2004	<a href="#">Sven</a>
Safe Egg Prototyp	2003	<a href="#">Horst</a>
FooDropper	2007	<a href="#">Pamela</a>

# Ruby ist nur die Sprache.



- seit 1993 in Japan entwickelt
- beeinflusst von Perl, Lisp, Python, Smalltalk
- dynamisch typisiert
- objektorientiert
- objektorientiert
- objektorientiert

# Die Syntax ist einfach.

```
class Greeter

  def initialize(name = "World")
    @name = name
  end

  def say_hi
    puts "Hi #{@name}!"
  end

  def say_bye
    puts "Bye #{@name}, come back soon."
  end
end

g = Greeter.new "IEEE"
g.say_hi
g.say_bye
```

**Alles ist ein Objekt.**

**Beweis per Beispiel □**

# Rails ist das Framework.



- **Model-View-Controller** strikt umgesetzt
- viel Code in wenig Zeit durch

**„Convention Over Configuration“**

**Wer benutzt Rails?**

# Große Seiten laufen auf Rails.

do more sports on 43 Things - Mozilla Firefox

File Edit View History Bookmarks Tools Help del.jcio.us

45 http://www.43things.com/things/view/34185

Egg-Drop-Database 43 do more sports on 43 Things

Home Zeitgeist Log In Search GO

## 43 Things

47 people want to do this...  
**do more sports**

I want to do this  
I've done this

People doing this:

 <a href="#">Flowerstar</a> Bonn <a href="#">3 entries</a>	 <a href="#">Schattenstern</a> <a href="#">2 entries</a>
 <a href="#">candydreams</a> <a href="#">1 entry</a>	 <a href="#">orchid264</a> <a href="#">1 entry</a>
 <a href="#">tiredorwired</a> London <a href="#">1 entry</a>	 <a href="#">hellokaain</a> <a href="#">1 entry</a>
 <a href="#">Dani0102</a>	 <a href="#">ollä</a>
 <a href="#">snowi99</a> Darlington	 <a href="#">Lud0</a>

— [See all 47 people](#)

People doing this are also doing these things:

- [Finish reading "Luck in the Shadows" \(Nightrunner-Series, 1st Book\)](#)

Popular Tags:  
[baby lifting](#) [child lifting](#) [exercise](#) [gymnastics](#) [health](#) [jogging](#) [karate](#) [running](#) [sport](#) [sports](#)

Worth Doing  
4 out of 4 people (100%) think this is worth doing.

People who've done this:

 <a href="#">Tank</a> <a href="#">3 entries</a> WORTH DOING!
 <a href="#">Sptco</a> <a href="#">1 entry</a> WORTH DOING!
 <a href="#">malarkey</a> <a href="#">1 entry</a> WORTH DOING!

— [See all 4 people](#)

"I have missed more than 9000 shots in my career. I have lost almost 300 games. On 26 occasions I have been entrusted to take the game winning shot and missed. And I

Done Adblock

# Deutsche Seiten laufen auf Rails.

MeinProf.de - Bayern - Mozilla Firefox

File Edit View History Bookmarks Tools Help deljcio.us

http://meinprof.de/unis/bayern

LiveHTTPHeaders

HTTP Headers

```
http://meinprof.de/unis/bayern
GET /unis/bayern HTTP/1.1
Host: meinprof.de
User-Agent: Mozilla/5.0 (Windows; U; Windows...
Accept: text/xml,application/xml,application/xh...
Accept-Language: en-us,en;q=0.5
Accept-Encoding: gzip,deflate
Accept-Charset: ISO-8859-1,utf-8;q=0.7,*;q=...
Keep-Alive: 300
Connection: keep-alive
Referer: http://meinprof.de/
Cookie: _session_id=ed59e55aaf8bf807d129a...
Cache-Control: max-age=0

HTTP/1.x 200 OK
Date: Wed, 10 Jan 2007 15:05:07 GMT
Server: Mongrel 0.3.13.4
Status: 200 OK
Cache-Control: no-cache
Content-Type: text/html; charset=utf-8
Set-Cookie: _session_id=ed59e55aaf8bf807d1...
Vary: Accept-Encoding
Content-Encoding: gzip
Keep-Alive: timeout=5, max=100
Connection: Keep-Alive
Transfer-Encoding: chunked

http://meinprof.de/stylesheets/meinprof.css?1...
GET /stylesheets/meinprof.css?1167828383 HT...
Host: meinprof.de
```

MeinProf.de

Start Top-/Flop-Listen FAQ MeinProf.de? Login NewsBlog

Suche Landesweit

Statistik Landesweit

3310 Professoren  
6381 Kurse  
25464 Bewertungen

TOP-Professoren

Landesweit Interesse

Prof. Dr. Schikora (FHAM) 1.0

Prof. Dr. Kamm (Uni Passau) 1.0

Deutschland » Bayern

Name	Stadt	Professoren	Bewertungen
FH Regensburg	Regensburg	166	1774
FH Landshut	Landshut	85	1761
FH Hof	Hof	68	1551
Uni München	München	309	1383
FH München	München	238	1368
FH Coburg	Coburg	83	1230
FH Deggendorf	Deggendorf	80	1219
Uni Erlangen	Erlangen-Nürnberg	223	1189
Uni Passau	Passau	121	1149
FH Nürnberg	Nürnberg	196	1143
FH Augsburg	Augsburg	102	908
Unibw München	Neubiberg	97	818
FH Rosenheim	Rosenheim	94	770
Uni Bayreuth	Bayreuth	94	760
FH Ansbach	Ansbach	62	743
FH Kempten	Kempten	67	743
Uni Bamberg	Bamberg	101	728

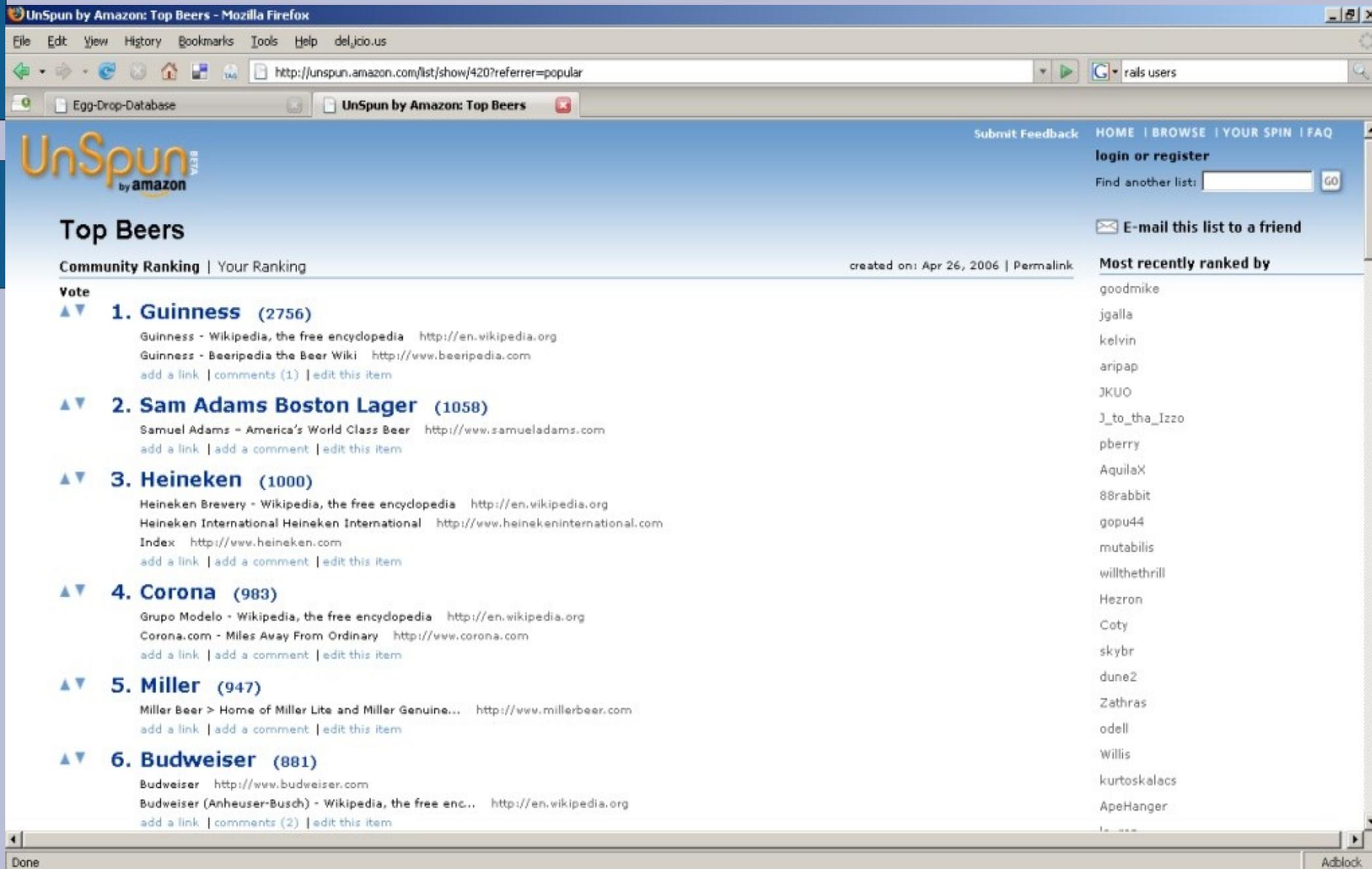
Wie geht es weiter?

Wähle aus der Liste deine Hochschule aus. Du erhältst dann eine Übersicht mit allen Dozenten, die bisher für diese Uni eingetragen wurden. Falls ein Dozent fehlt, den du gerne bewerten möchtest, kannst du ihn einfach selber anlegen (oben rechts auf »Fehlt ein Prof?« klicken).

Professoren-Liste zu unübersichtlich?

Die Liste mit den Profs deiner Hochschule kannst du auch auf einen gewünschten Schwerpunkt einschränken. Ausserdem besteht die Möglichkeit die Dozenten nach dem Namen, der Anzahl an Bewertungen und den bisher vergebenen Noten sortieren. Klicke dazu einfach auf die jeweilige Spaltenüberschrift.

# Ein Stück Amazon läuft auf Rails.



The screenshot shows a Mozilla Firefox browser window displaying the 'UnSpun by Amazon: Top Beers' page. The address bar shows the URL 'http://unspun.amazon.com/list/show/420?referrer=popular'. The page features a navigation menu with links for 'HOME | BROWSE | YOUR SPIN | FAQ', a 'login or register' section, and a search bar. The main content area is titled 'Top Beers' and includes a 'Community Ranking | Your Ranking' section. A list of six beers is displayed, each with a rank, name, and number of votes. The beers listed are Guinness (2756 votes), Sam Adams Boston Lager (1058 votes), Heineken (1000 votes), Corona (983 votes), Miller (947 votes), and Budweiser (881 votes). Each entry includes a brief description and links to external sources like Wikipedia or the brand's website. On the right side, there is a section for 'Most recently ranked by' with a list of usernames.

UnSpun by amazon

Submit Feedback HOME | BROWSE | YOUR SPIN | FAQ  
login or register  
Find another list:  GO  
E-mail this list to a friend

Top Beers

Community Ranking | Your Ranking created on: Apr 26, 2006 | Permalink

Vote

- 1. Guinness (2756)**  
Guinness - Wikipedia, the free encyclopedia <http://en.wikipedia.org>  
Guinness - Beeripedia the Beer Wiki <http://www.beeripedia.com>  
add a link | comments (1) | edit this item
- 2. Sam Adams Boston Lager (1058)**  
Samuel Adams - America's World Class Beer <http://www.samueladams.com>  
add a link | add a comment | edit this item
- 3. Heineken (1000)**  
Heineken Brevery - Wikipedia, the free encyclopedia <http://en.wikipedia.org>  
Heineken International Heineken International <http://www.heinekeninternational.com>  
Index <http://www.heineken.com>  
add a link | add a comment | edit this item
- 4. Corona (983)**  
Grupo Modelo - Wikipedia, the free encyclopedia <http://en.wikipedia.org>  
Corona.com - Miles Away From Ordinary <http://www.corona.com>  
add a link | add a comment | edit this item
- 5. Miller (947)**  
Miller Beer > Home of Miller Lite and Miller Genuine... <http://www.millerbeer.com>  
add a link | add a comment | edit this item
- 6. Budweiser (881)**  
Budweiser <http://www.budweiser.com>  
Budweiser (Anheuser-Busch) - Wikipedia, the free enc... <http://en.wikipedia.org>  
add a link | comments (2) | edit this item

Most recently ranked by

- goodmike
- jgalla
- kelvin
- aripap
- JKUO
- J\_to\_tha\_Izzo
- pberry
- AquilaX
- 88rabbit
- gopu44
- mutabilis
- willthethrill
- Hezron
- Coty
- skybr
- dune2
- Zethras
- odell
- Willis
- kurtoskalacs
- ApeHanger

Done Adblock

**Hype**



## Show, don't tell: Seeing is believing

Lean back and enjoy the shows, but be careful: Going back to your former treadmill after being exposed to these movies can prove exceedingly painful. Don't say we didn't try to warn you.

```
def create
  @post = Post.new(params[:post])
  if @post.save
    flash[:notice] = 'Post was successfully
    redirect_to :action => 'list'
  else
    render :action => 'new'
  end
end

def edit
  @post = Post.find(params[:id])
end

def update
  @post = Post.find(params[:id])
  if @post.update_attributes(params[:post])
```

[Creating a weblog in 15 minutes](#)

### Creating a weblog in 15 minutes

In 15 minutes, we go from scratch to complete weblog engine: with comments and an administrative interface. But since the actual application only took 58 lines to complete, we also have time left over to do unit testing, examine the logs, and play around with the domain model.



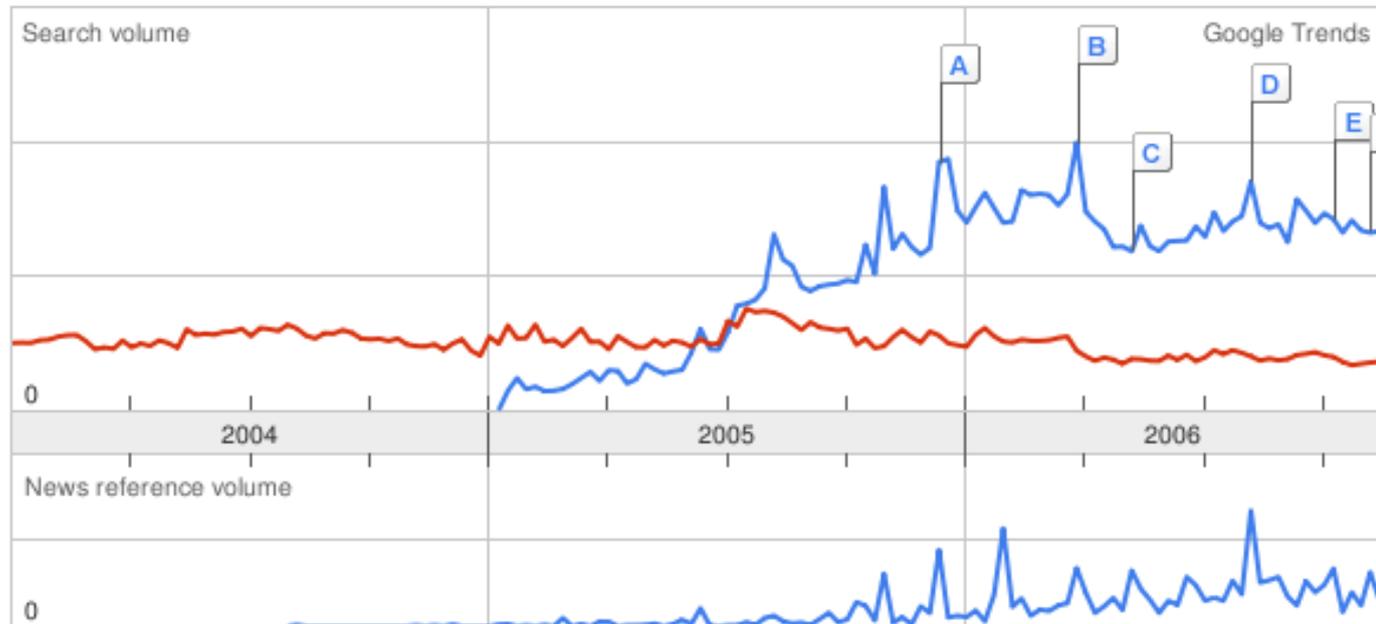
ruby on rails, java struts

Search Trends

Tip: You can compare searches by separating with commas.

## Trend history

● ruby on rails ● java struts



[A Ruby on Rails 1.0 Released](#)

SDA India Magazine - Dec 14 2005

[B Ruby on Rails Ramps Up](#)

InternetNews.com - Mar 29 2006

[C DomainRightNow to Support Web Sites](#)

Emediawire (press release) - May 8 2006

[D eApps Hosting Offers Ruby on Rails VPS](#)

PR Web (press release) - Aug 10 2006

[E Developers Say: "The Future Is ASP.NET"](#)

Business Wire (press release) - Oct 11 2006

[F Ruby on Rails stakes out Java's turf](#)

Computerworld Australia - Nov 10 2006

# DHH ist *Hacker of the Year* 2005



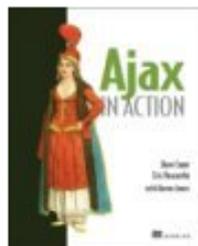
### Best Books of 2006

#### Top 10 Customers' Favorites: Computers & Internet



Here are the topselling computer and Internet books on Amazon.com during 2006. (Ranked according to customer orders through October. Only books published for the first time in 2006 are eligible.) See more editors' picks and customers' favorites in our [Best of 2006 Store](#).

1.



[Ajax in Action](#)  
[Dave Crane](#)

**In Stock**  
**Manning Publications**  
**October 1, 2005**  
**Paperback**

**List Price:** ~~\$44.95~~  
**Our Price:** **\$24.72**  
**You Save:** **\$20.23 (45%)**

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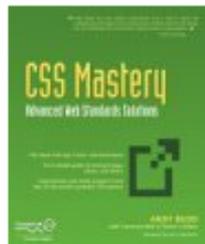
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#### Val's Blog

"A tremendously useful field guide specifically written for developers down in the trenches...waiting for the killer solution..."... [Read more](#)

2.



[CSS Mastery: Advanced Web Standards Solutions](#)  
[Andy Budd](#)

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**friends of ED**  
**February 13, 2006**  
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**You Save:** **\$11.90 (34%)**

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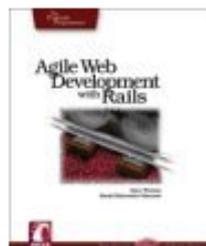
[Click here for more information](#)

### Book Description

This book is your indispensable guide to cutting-edge CSS development--all you need to work your way up to CSS professional....

[Read more](#)

3.



[Agile Web Development with Rails: A Pragmatic Guide \(Pragmatic Programmers\)](#)

[Dave Thomas](#)

**Currently unavailable**  
**Pragmatic Bookshelf**  
**July 1, 2005**  
**Paperback**

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[Avg. Customer Review:](#)

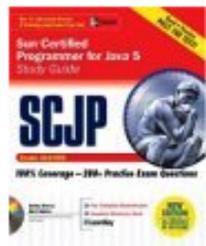


### Book Description

Rails is a full-stack, open source web framework that enables you to create full-featured, sophisticated web-based applications, but with a twist... A full Rails application probably has less total code than the XML you'd need to configure the same applica...

[Read more](#)

4.



[SCJP Sun Certified Programmer for Java 5 Study Guide \(Exam 310-055\) \(Certification Press Study Guides\)](#)

[Katherine Sierra](#)

**In Stock**  
**McGraw-Hill Osborne Media**  
**December 21, 2005**  
**Paperback**

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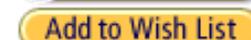


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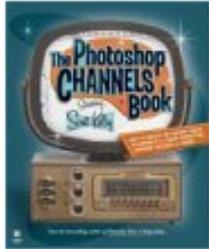




### Book Description

Get the book that shows you not only what to study, but ... [Read more](#)

6.



[The Photoshop Channels Book](#)  
[Scott Kelby](#)

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**February 14, 2006**  
**Paperback**

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**You Save:** **\$16.80 (42%)**

[Avg. Customer Review:](#)



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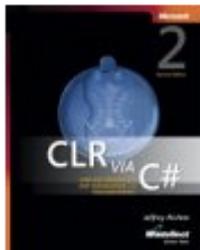
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#### Book Description

One big advantage Photoshop professionals have always had was the understanding of channels. It was their secret weapon, and it enabled them to do things, and work in an entirely different way than their competitors, and maybe that's why the secret power of Photoshop's channels ... [Read more](#)

7.



[CLR via C#, Second Edition](#)  
[Jeffrey Richter](#)

**In Stock**  
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**February 22, 2006**  
**Paperback**

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#### Book Description

Expert guidance from well-known programming author Jeff Richter about the CLR and the .NET Framework 2.0. Your hands-on guide to developing applications with the common language runtime (CLR) and Microsoft .NET Framework 2.0, with examples in Microsoft Vis... [Read more](#)

# **Vorarbeit**

# Zuerst Ruby installieren.



May 17 - 20, 2007  
Call for Participation  
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This project's trackers  Search [Advanced search](#)

[Home](#) [My Page](#) [Project Tree](#) [Code Snippets](#) [Project Openings](#) [One-Click Ruby Installer](#)

[Summary](#) [Tracker](#) [Lists](#) [Tasks](#) [Docs](#) [News](#) [SCM](#) [Files](#) [Wiki](#)

A self-contained installer that includes the Ruby language, dozens of popular extensions, a syntax-highlighting editor and the book "Programming Ruby: The Pragmatic Programmer's Guide". Platforms: Windows NT/2000/XP, (OS X in development).

- Development Status: [5 - Production/Stable](#)
- Environment: [Win32 \(MS Windows\)](#)
- Intended Audience: [Developers](#), [End Users/Desktop](#)
- License: [OSI Approved](#), [Ruby License](#)
- Natural Language: [English](#)
- Operating System: [Windows 95/98/2000](#), [Windows NT/2000](#)
- Programming Language: [Ruby](#)
- Topic: [Software Development](#)

Registered: 2004-01-30 14:25  
Activity Percentile: 99.43%  
[View project activity statistics.](#)

### Developer Info

Project Admins:  
[Curt Hibbs](#)  
[Andy Hunt](#)

Developers:  
7 [[View Members](#)]

### Latest File Releases

Package	Version	Date	Notes / Monitor	Download
<a href="#">One-Click Installer - Windows</a>	1.8.5-21	August 29, 2006	 - 	<a href="#">Download</a>

[\[View All Project Files\]](#)

**Danach Rails, Webserver und DB-Treiber.**

```
gem install rails  
gem install mongrel  
gem install postgres-pr
```

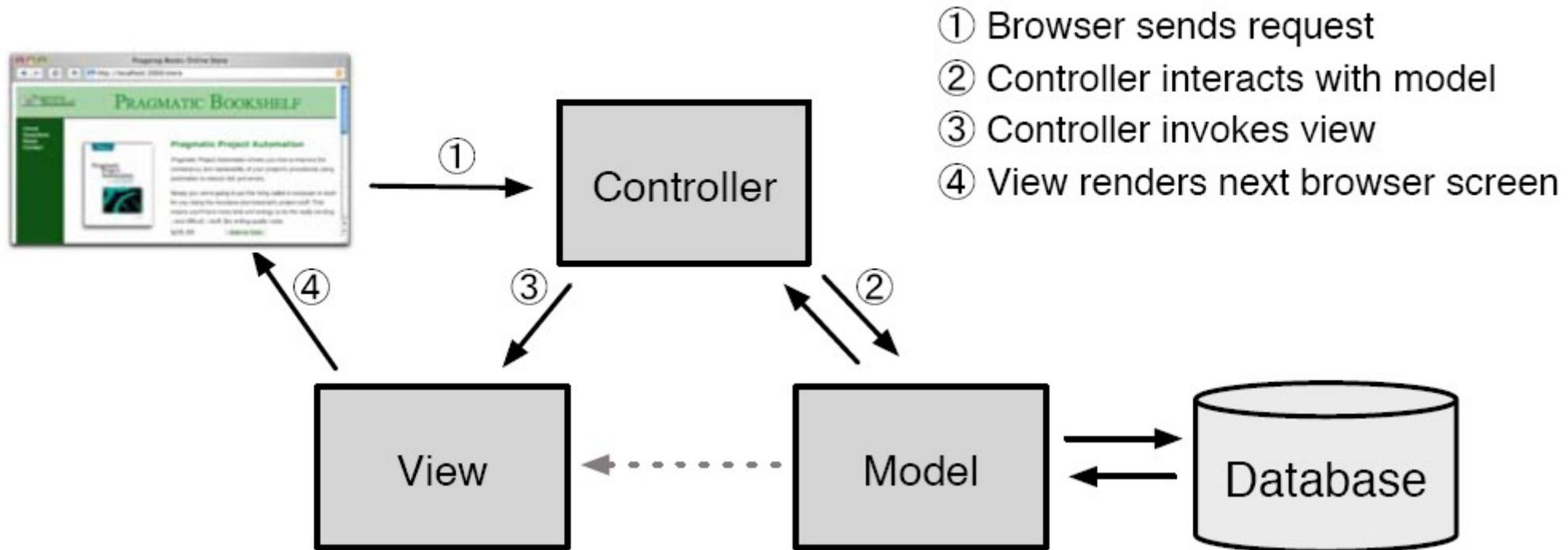
# DB designen und aufsetzen.

```
CREATE . . . ;
```

```
INSERT INTO . . . VALUES ( . . . ) ;
```

```
INSERT INTO . . . VALUES ( . . . ) ;
```

# Controller steuert View und Model.



# Nun geht's los.



Bild von [http://flickr.com/photos/hughes\\_leglise/125997385/](http://flickr.com/photos/hughes_leglise/125997385/)

# Der Schlachtplan sieht so aus.

1. **Rails-Projekt** anlegen und konfigurieren.
2. **Eggdropper-Liste** anpassen
3. **Creator-Detailansicht** anpassen
4. **CSS-Datei** einbinden, Titel ändern
5. **Routes** für `/creators/show/Horst` und `/`

# URLs werden gemapped auf Controller + Action.

http://pragprog.com/online/demo/say/hello

1. First part of URL identifies the application

2. Next part selects a controller (say)

3. Last part identifies the action to invoke

aus *Agile Web Development with Rails*

# Jeder Request erzeugt eigenen Controller.

<http://pragprog.com/online/demo/say/hello>

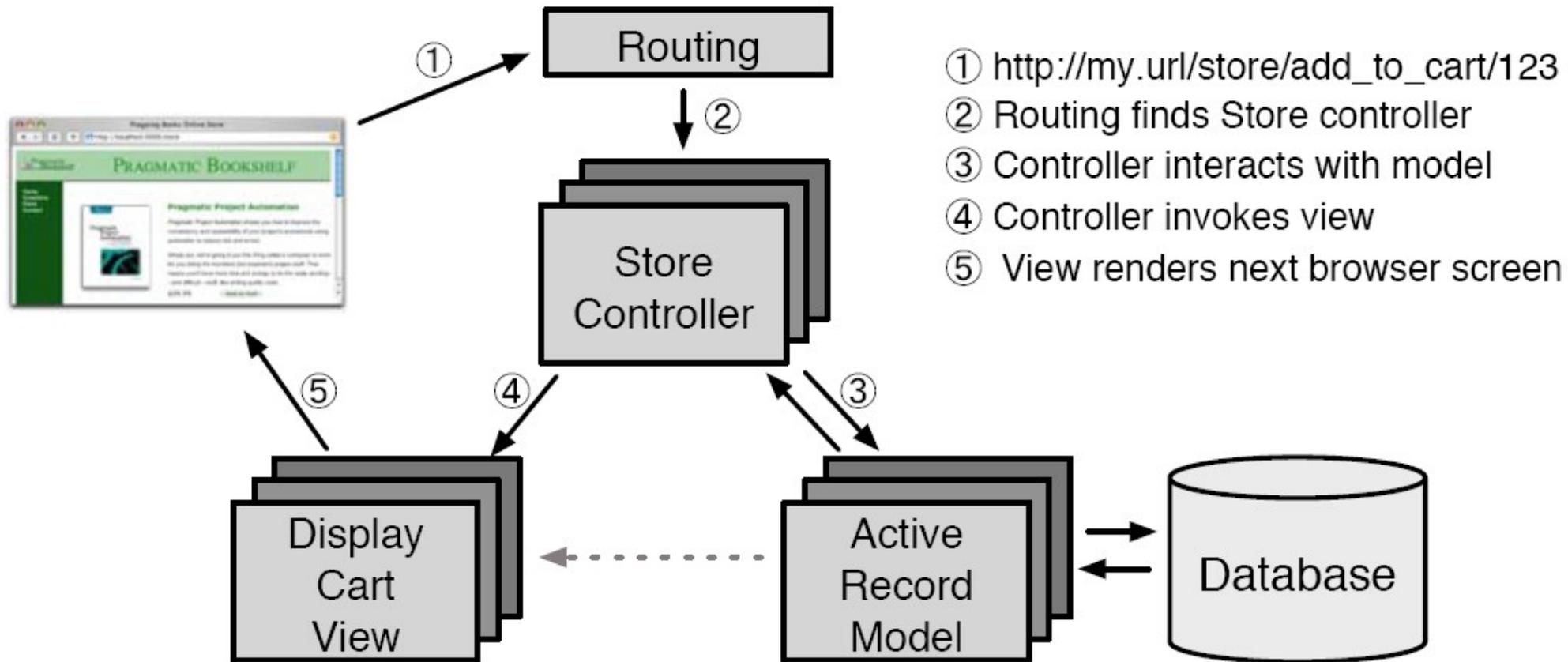
```
class CustomerController < ...
class OrderController < ...
class UpdateController < ...
class SayController < ...
class LoginController < ...
  def hello
    # actions...
  end
end
```

Create an  
instance of class  
SayController

Then  
invoke its  
hello()  
method

```
class SayController < ...
  def hello
    # code for hello action...
  end
end
```

# Rails hat viele M, V und C.



# Der Schlachtplan sieht so aus.

1. **Rails-Projekt** anlegen und konfigurieren.
2. **Eggdropper-Liste** anpassen
3. **Creator-Detailansicht** anpassen
4. **CSS-Datei** einbinden, Titel ändern
5. **Routes** für `/creators/show/Horst` und `/`

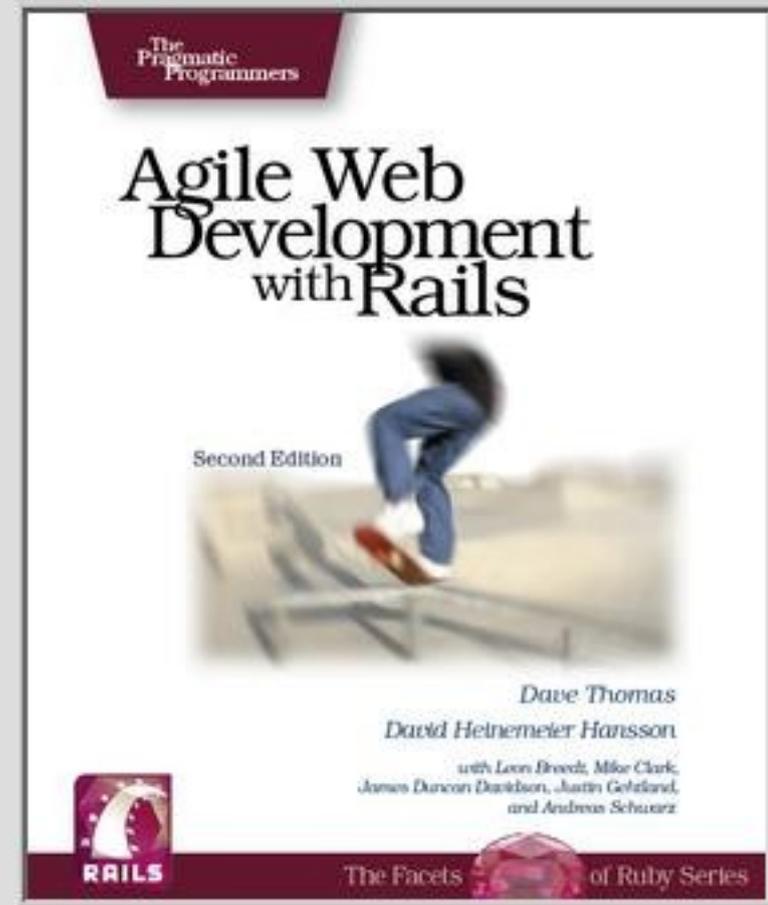
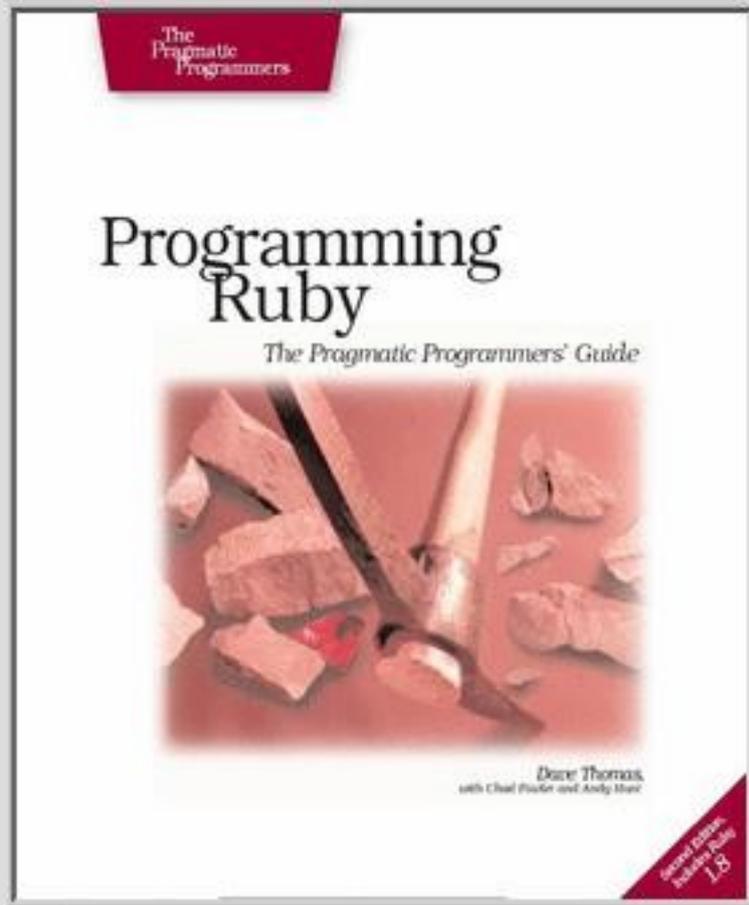
# Wir sahen nur die View des Eisbergs.

- Denn es warten noch
  - Ajax - out of the Box
  - Validations
  - Migrations
  - Testing
  - und noch mehr

# Wir haben trotzdem einiges erlebt.

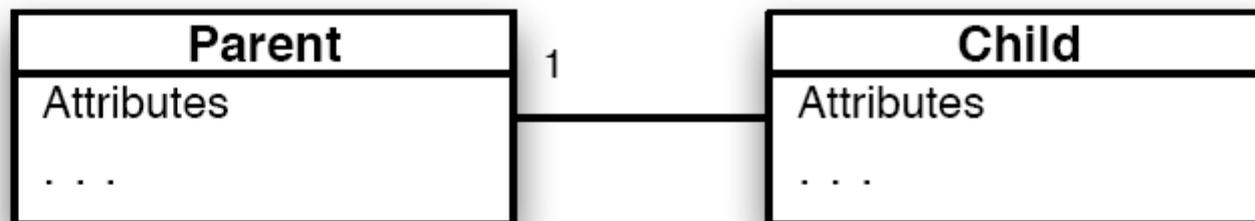
- Überblick Ruby & Ruby on Rails
- Wie bekannt ist Rails eigentlich?
- Website gebaut:
  - Rails-Projekt angelegt, Aufbau verstanden.
  - Scaffolds für die Entities per Script erstellt.
  - View nach eigenem Geschmack angepasst.
  - Eigene Routes definiert.

# Heiß empfohlen zu Ruby und Rails



# Backup

**Logical Model**



**Database Schema**

```
create table parents (  
  id int primary key,  
  ...  
);
```

```
create table children (  
  id int primary key,  
  parent_id int references parents(id),  
  ...  
);
```

**Rails Classes**

```
class Parent < ...  
  ...  
end
```

```
class Child < ...  
  belongs_to :parent  
end
```

# Convention over Configuration.

## Model Naming

Table	line_items
Class	LineItem
File	app/models/line_item.rb

## Controller Naming

URL	http://.../store/list
Class	StoreController
File	app/controllers/store_controller.rb
Method	list()
Layout	app/views/layouts/store.rhtml

## View Naming

URL	http://.../store/list
File	app/views/store/list.rhtml (or .xml)
Helper	module StoreHelper
File	app/helpers/store_helper.rb