



Ruby on Rails

Jeremy Lightsmith

Section I - Intro

- Hopes & Fears
- Intro
- Install Rails
- Watch the Ball
- Instant Gratification
- About Rails

Hopes & Fears

Intro

What is Rails?

Web Framework

ActionPack

ActiveRecord

ActiveSupport

ActionMailer

ActiveResource

Convention over Configuration

Don't
Repeat
Yourself

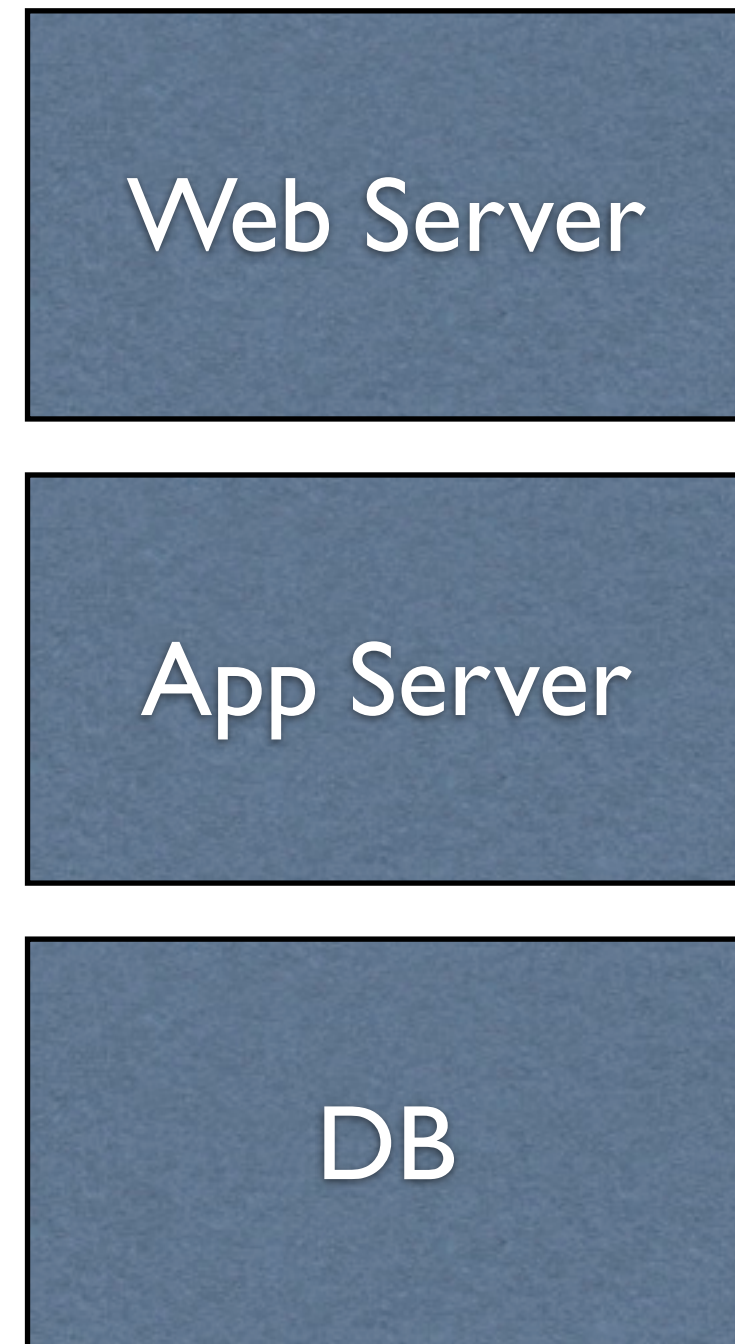
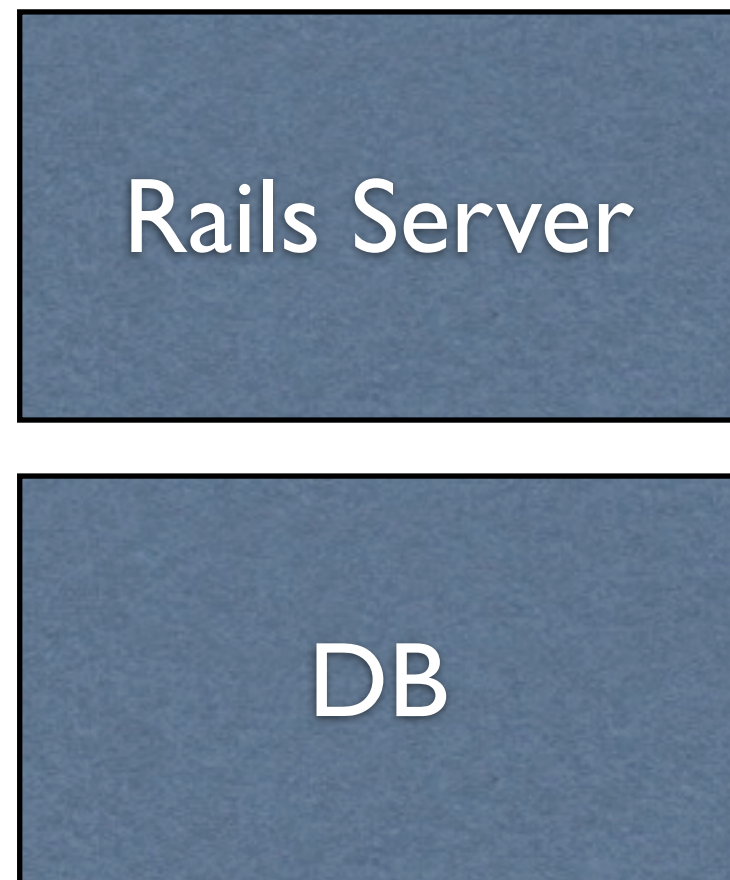
Domain Specific Languages

“magic”
possibly too much

Why is Rails Important?


Simplify

2 Tier vs 3 Tier



Faster

A History Lesson

37signals 

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The quickest way to create and share information with your whole team.



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Campfire[™]

Chat with Your Group



**David
Heinemeier
Hansson**

RAILSCONF

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RAILSCONF 2010 CALL FOR PARTICIPATION IS NOW OPEN

TWITTER

(OFFICIAL TAG: #RAILSCONF) —

- @jeffcohen sure, RailsConf is probably cool and all. But what about Chicago

- BaseCamp
- CrunchBase
- Github
- Hulu
- Penny Arcade
- Scribd
- Shopify
- Spiceworks
- Twitter
- Urban Dictionary
- XING
- Yellowpages.com

Rails == Agile

This Class

- 10 weeks
- Lecture / Lab ~ 33% / 66%
- Working in rotating pairs
- Grading in class / on board

To Pass

- Attendance
 - 80% of classes
 - 20 min late == absence
- 100% of assignments
- project that meets requirements

Project Requirements

- at least 3 tables / models
- tests (model & controller)
- some client-side javascript
- validation
- login / signup (or equivalent complexity)
- must be “approved”

Resources

- Homework completion sheet
- Mailing List
- The Book
 - Agile Web Development w/ Ruby on Rails
- <http://apidock.com/>
- jeremy.lightsmith@gmail.com
- 312-953-1193

Install Rails

Pass the Stewie

[Google Search](#)[I'm Feeling Lucky](#)[Advanced Search](#)
[Language Tools](#)

[Information, resources, and ways you can help](#) survivors of the Haiti earthquake.

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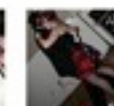
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Posted 13 Jan 10

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Instant Gratification

About Rails

Directory Structure

Naming Conventions

script/console

Rails Code

Active Support Extensions

- date / time
 - 5.seconds.ago
 - Date.today.to_s(:db)
- string helpers - pluralize, classify, underscore, etc
- blank?

Environments

Section 2 - Models

- database.yml
- Migrations
- Active Record Models
- Active Record Relationships
- Active Record Validations

database.yml

Migrations

script/generate model post

Active Record Models

Active Record Relationships

belongs_to

has_many

has_one

has_many :through

Active Record Validations

`validates_presence_of`
`validates_uniqueness_of`
`validates_length_of`

...

Section 3 - Agile Practices

- Testing in Rails
- Red, Green, Refactor
- Ping Pong Pairing
- Going Further
- Test Models
- Fixtures

Testing in Rails

Red, Green, Refactor

Ping Pong Pairing

Going Further

Test Models

Fixtures

Section 4 - Controllers

- Routes
- REST
- View Forms
- Test Controllers
- Nested Resources

Routes

REST

View Forms

Test Controllers

Nested Resources

Section 5 - Plugins

- Logging In
- Pagination
- Upload a File
- Upload a Photo

Logging In

Pagination

Upload a File

Upload a Photo

Section 6 - Views

- About views
 - Templates
 - Helpers
 - Layouts
- CSS
- Other view options
- Hoptoad for Errors

About Views : Templates, Helpers, Layouts

CSS

Other View Options

Hoptoad

Section 7 - AJAX

- AJAX
- RJS Templates
- jQuery
- Firebug

AJAX

RJS Templates

jQuery

Firebug

Section 8 - Deployment

- Heroku
- E-mail
- Capistrano
- Other Deployment Options
- Deployment Strategies

Heroku

E-Mail

Capistrano

Other Deployment Options

Deployment Strategies

Section 9 - Advanced

- Caching
- Searching

Caching

Searching

Section 10 - Project Demos

- Project Demos

Project Demos