

# Developing Web Apps with Ruby on Rails

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Prof. Paul Krause, University of Surrey  
Chapter 3, Lecture 1  
The Importance of Process

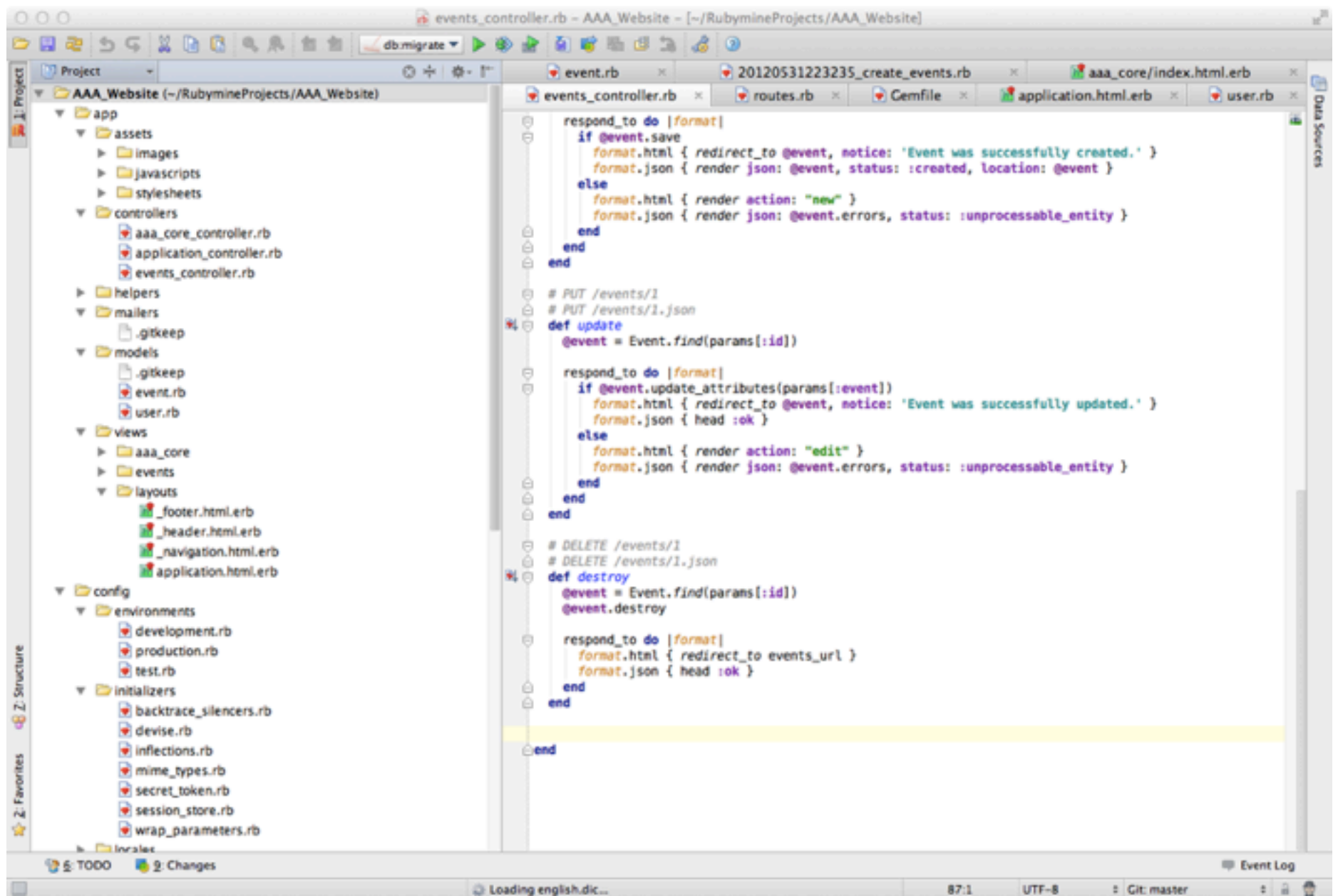
# Objectives for today

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- Introduce the Importance of:
  - Stable Development
  - Behaviour Driven Development and Testing
  - Version Control
  - Early Deployment

# Stable Development Environment

# Command Line vs. RubyMine



# Behaviour Driven Development and Testing

# RSpec & Cucumber

[Books](#) | [Video](#)

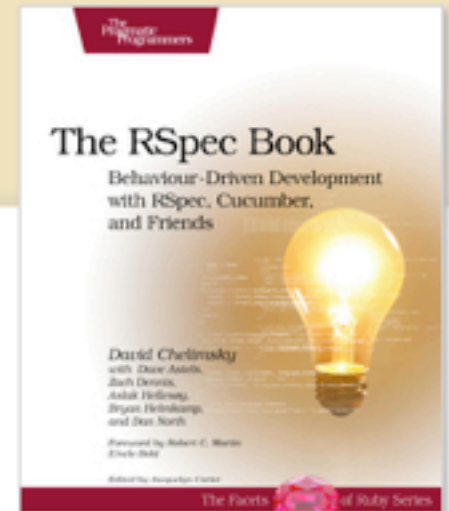
The  
Pragmatic  
Bookshelf

## The RSpec Book: Behaviour-Driven Development with RSpec, Cucumber, and Friends

by David Chelimsky, Dave Astels, Zach Dennis, Aslak Hellesøy, Bryan Helmkamp, Dan North

Behaviour-Driven Development (BDD) gives you the best of Test Driven Development, Domain Driven Design, and Acceptance Test Driven Planning techniques, so you can create better software with self-documenting, executable tests that bring users and developers together with a common language.

Get the most out of BDD in Ruby with *The RSpec Book*, written by the lead developer of RSpec, David Chelimsky.

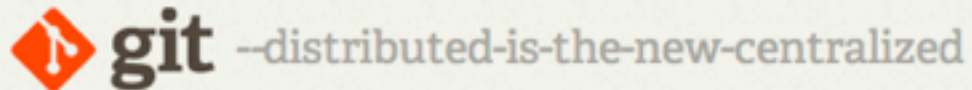


[Code](#) • [Errata](#) • [Discussions](#)

448 pages, 2010-12-02  
ISBN: 978-1-93435-637-1

[Releases](#)

# Version Control



Search entire site...

Git is a **free and open source** distributed version control system designed to handle everything from small to very large projects with speed and efficiency.

Git is **easy to learn** and has a **tiny footprint with lightning fast performance**. It outclasses SCM tools like Subversion, CVS, Perforce, and ClearCase with features like **cheap local branching**, convenient **staging areas**, and **multiple workflows**.



## About

The advantages of Git compared to other source control systems.



## Documentation

Command reference pages, Pro Git book content, videos and other material.



## Downloads

GUI clients and binary releases for all major platforms.



## Community

Get involved! Mailing list, chat, development and more.





The screenshot shows the GitHub homepage for user pjkrause. At the top, there is a navigation bar with the GitHub logo, a search bar, and links for Explore, Gist, Blog, and Help. The user's profile name 'pjkrause' is visible in the top right corner. Below the navigation bar, there are tabs for 'News Feed', 'Your Actions', 'Pull Requests', and 'Issues'. The main content area features a 'GitHub Bootcamp' section with four numbered steps: 1. Set Up Git, 2. Create A Repository, 3. Fork a Repository, and 4. Be social. Below the bootcamp section, there is a 'Welcome to GitHub! What's next?' message with links to 'Create a Repository', 'Tell us about yourself', 'Browse Interesting Repos', and 'Follow @github on Twitter'. To the right, there is a 'GitHub Pages Update' broadcast about automatic generation of user and org pages. At the bottom right, there is a 'Your Repositories (15)' section with a search bar and filters for 'All Repositories', 'Public', 'Private', 'Sources', and 'Forks'.

github  Explore Gist Blog Help pjkrause

pjkrause News Feed

News Feed Your Actions Pull Requests Issues

**GitHub Bootcamp** If you are still new to things, we've provided a few walkthroughs to get you started.

- Set Up Git**  
A quick guide to help you get started with Git.
- Create A Repository**  
Create the place where your commits will be stored.
- Fork a Repository**  
Copy a repo to create a new, unique project from its contents.
- Be social**  
Follow a friend. Watch a project.

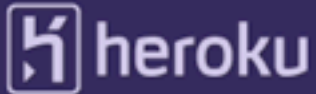
**Welcome to GitHub! What's next?** (2 years ago)  
[Create a Repository](#)  
[Tell us about yourself](#)  
[Browse Interesting Repos](#)  
[Follow @github on Twitter](#)

**GitHub Pages Update**  
Automatic generation of user and org pages with three new design themes.  
x hide this broadcast [View 55 new broadcasts](#)

**Your Repositories (15)** [New repository](#)  
  
All Repositories Public Private Sources Forks

# Early Deployment

[www.heroku.com](http://www.heroku.com)



[How it Works](#) | [Pricing](#) | [Add-ons](#) | [Dev Center](#) | [Support](#) | [Contact](#) [Login](#)

# cloud application platform

deploy and scale powerful apps



Forget Servers



Run Anything



See Everything



Trust & Manage

Agile deployment for Ruby, Node.js, Clojure, Java, Python, and Scala.

Get up and running in minutes, and deploy instantly with git. Focus 100% on your code, and never think about servers, instances, or VMs again.

[Agile Deployment on Heroku](#) ▶

```
$ heroku create
Created sushi.herokuapp | git@heroku.com:sushi.git

$ git push heroku master
----> Heroku receiving push
----> Rails app detected
----> Compiled slug size is 8.0MB
----> Launching... done, v1
http://sushi.herokuapp.com deployed to Heroku
```

[How it Works](#)

It's free to get started and sign up is instant.

[Sign Up](#)

# What you are going to learn!

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- Cool Agile Developers (CADs):
  - Develop, Test, Commit, Deploy