RUBY ON RAILS

An introduction.

The Ruby Programming Language

The Ruby Programming Language

"A dynamic, open source programming language with a focus on simplicity and productivity. It has an elegant syntax that is natural to read and easy to write."

Created by Yukihiro "Matz" Matsumoto, blending parts of his favourite languages - Perl, Smalltalk, Eiffel, Ada and Lisp.

Released in 1995. Gained mass acceptance with the introduction of Rails in 2006.

"Ruby is designed to make programmers happy!" ~ Matz

The Ruby Programming Language

Interpreted

Easy to read - optimised for people, not computers

Truly object-oriented

Concise

Dynamic

The Ruby Programming Language

"I always thought Smalltalk would beat Java. I just didn't know it
would be called 'Ruby' when it did." ~ Kent Beck

The Ruby Programming Language

http://www.ruby-lang.org/

Ruby on Rails

Ruby on Rails

"Ruby on Rails is an open-source web framework that's optimized for programmer happiness and sustainable productivity. It let's you write beautiful code by favoring convention over configuration."

Ruby on Rails

Extracted from the web application Basecamp
(www.basecamp.com)

Created by David Heinemeier Hansson

Convention over Configuration

Directory structure

File naming

Database naming

Config files

DRY - Don't repeat yourself

Templates

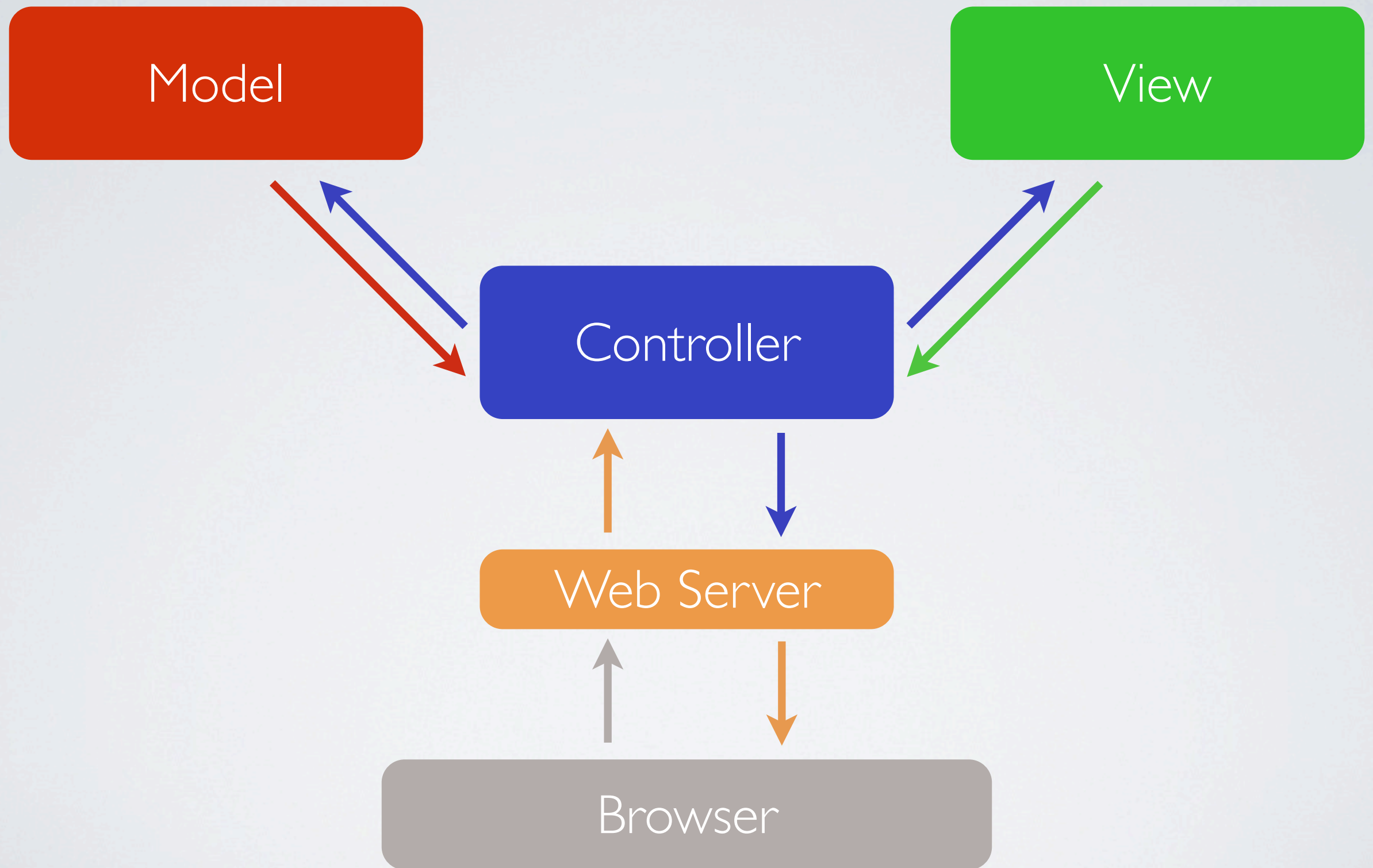Capistrano deployment recipes

Rake tasks

Scaffolds

Testing

Built right in...

TestUnit

RSpec

MVC Framework

Model

View

Controller

Web Server

Browser

MVC Framework Benefits

Isolation of business logic from the user interface

Ease of keeping code DRY

Making it clear where different types of code belong for easier maintenance

ActiveRecord

ORM provides database independence

Basic CRUD functionality

Advanced finding capabilities

A way to relate models to one another

Migrations

Ruby classes designed to make it simple to create and modify database tables.

Makes versioning and deployments simpler.

Allows one to undo database schema changes.

Installing Rails

On a Mac: Install homebrew and compile components from source

OR

On both Mac and Windows: railsinstaller.org

Let's build something...

Resources for learning Rails - on the web

railsguides.org

ruby.railstutorial.org

apidock.com/rails

railscasts.com

Resources for learning Rails - books

Agile Web Development with Rails

The Rails 3 Way

Capetown.rb

We meet on the 2nd Wednesday of every month. 7pm

Questions...