Ruby on Railsによる Webサイト構築

吉田 和弘 moriq@moriq.com

2008-10-25

オープンセミナー2008@岡山

Web application framework

- Ruby on Rails
- Merb

Ruby on Rails

- rails-2.1.1
- gem install rails
- Rails Trac → Git and Lighthouse
  - http://github.com/rails
  - http://rails.lighthouseapp.com

move to …

- Subversion → Git
- Test Unit → RSpec
- Mongrel → Thin
- Multi process → Multi thread
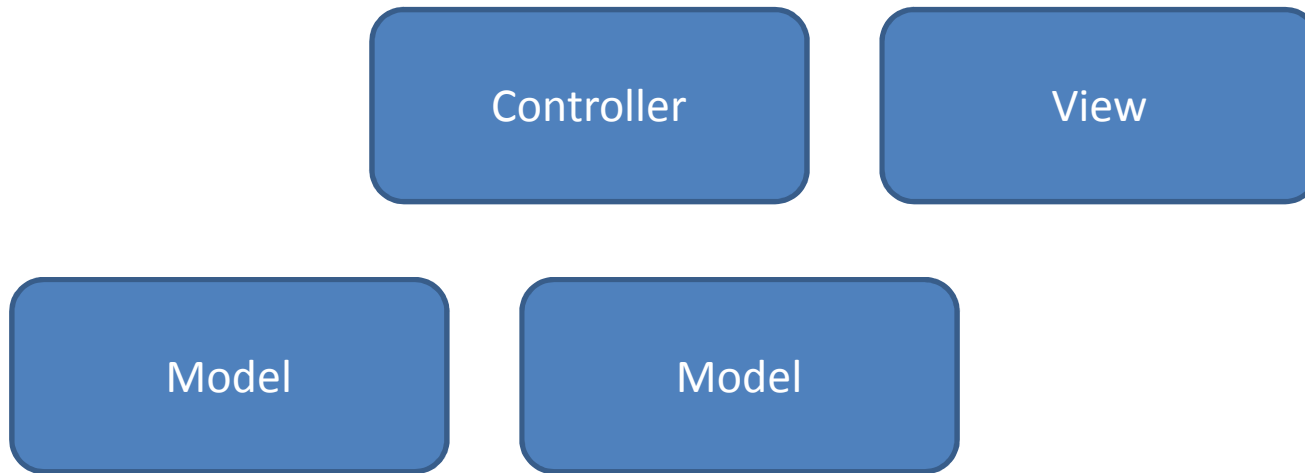- Ruby 1.8 → Ruby 1.9

Test Driven Development

テスト駆動開発

Testing framework

- Test Unit → RSpec
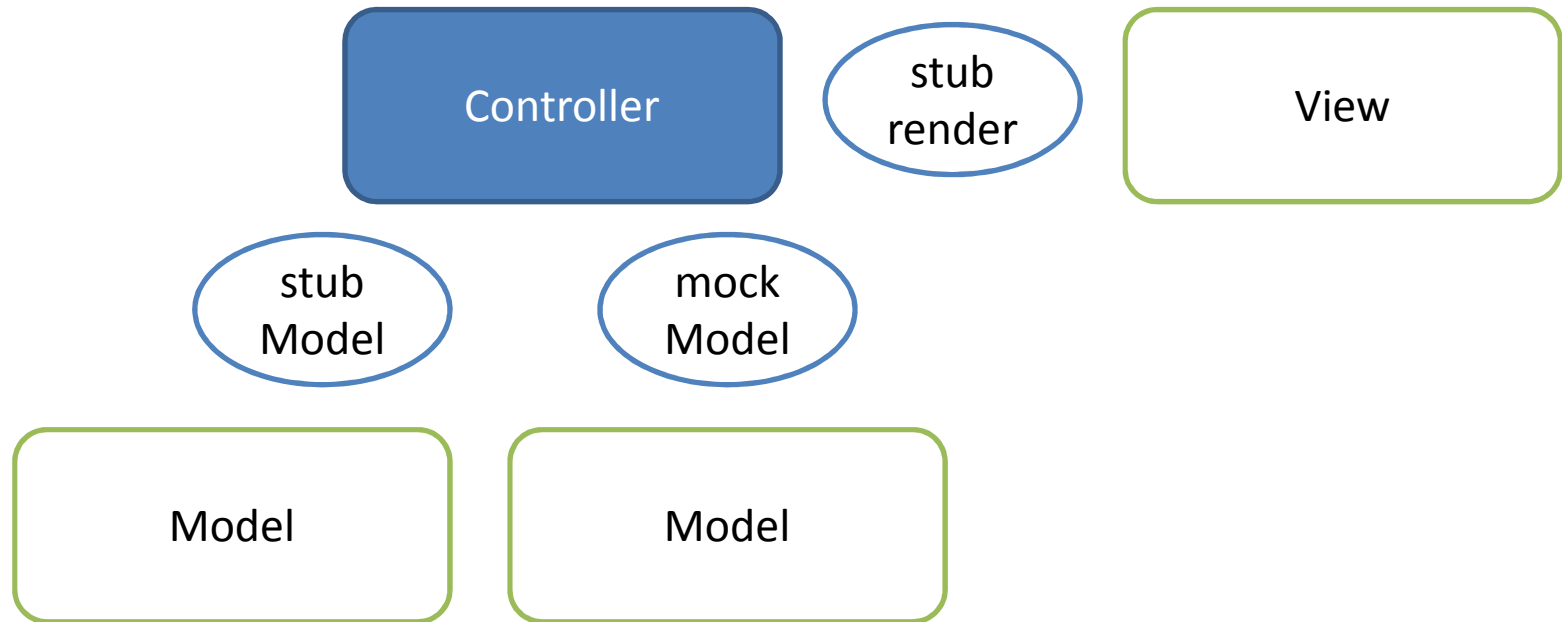 - Rubyist Magagine（るびま）
  - スはスペックのス

RSpec

- test/unit → spec/models
- test/functional →
  - spec/controllers
  - spec/helpers
  - spec/views
- test/integration → stories → features

test/functional

Controller

View

Model

Model

spec/controllers

Stub and Mock

- isolation from database
- isolation from view

cucumber

- RSpec story runner → cucumber
- integration test
- rake features

rcov

- code coverage tool
- rake spec:rcov

Ajax

動的なUI

Ajax

- Sortable element
- Add/Remove element (Client side)

Security

セキュリティ

security features

- SQL quoting
- HTML sanitization
- CSRF protection

possible vulnerabilities

- Cookie session store

- Mass assignment

- DoS: ex. XML entity explosion attack

Cache

キャッシュ

Cache

- ActiveSupport::Cache

- Cache type:
  Page / Action / Fragment

- Cache store:
  Memory / File / DRb /
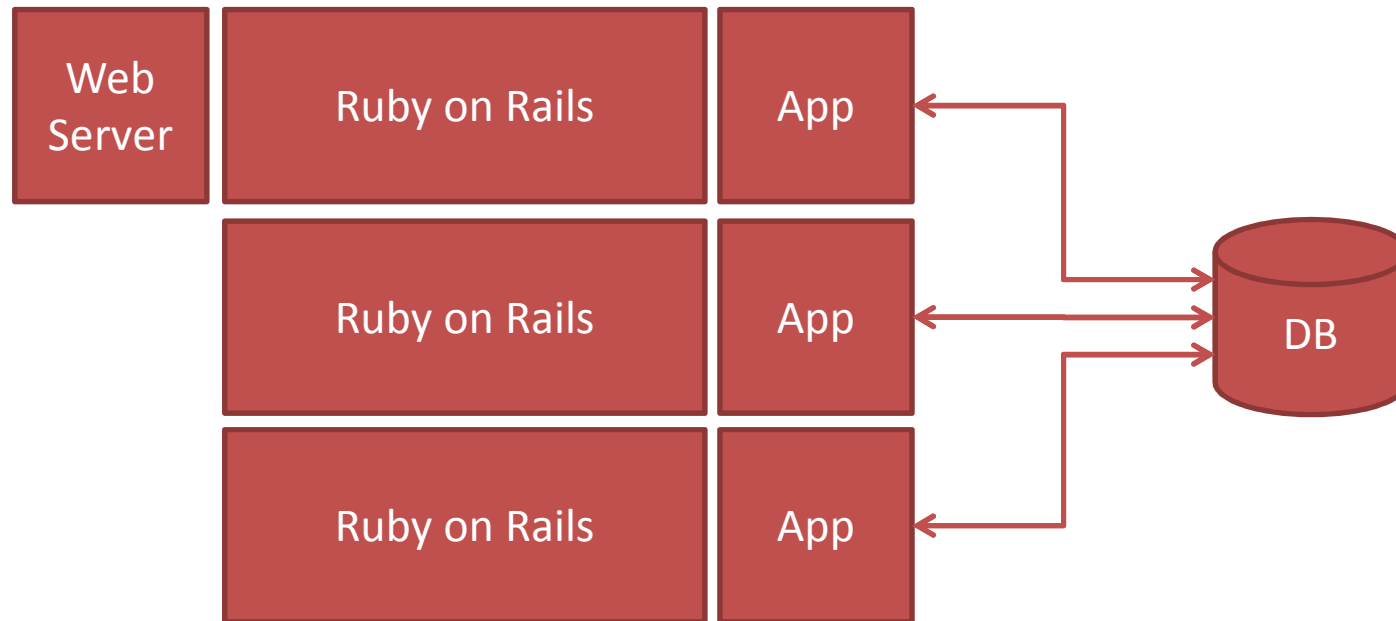 MemCache / CompressedMemCache

Deployment

サーバ構成

Thread implementation

- Ruby 1.8:
  - Thread = Green Thread
- Ruby 1.9:
  - Thread = Native Thread with GIL
  - and Fiber

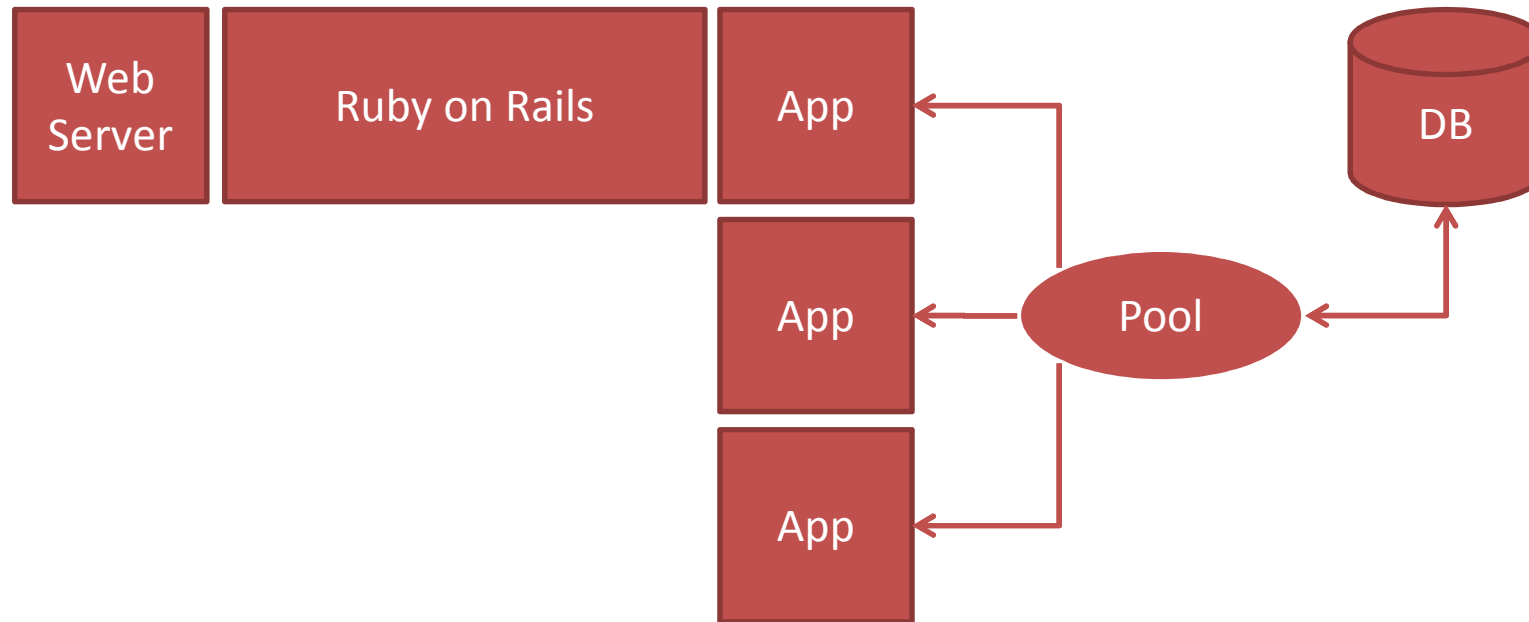# Network programming

- Multi Threading + I/O Blocking
- Single Threading + Non I/O Blocking
  - Never Block: Multi Fibering

Rails 2.1

Rails 2.2

Thank you