Baker to Builder: From CakePHP to Rails

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My Background

- 2003: started learning PHP
- 2007: self-taught CakePHP while developing Black Book Singles.
- 2008: started at Challenge Games as CakePHP developer.



My Background

- 2010: started at Food on the Table with no Ruby or Rails experience.
- 2011: forked & patched several gems on Github.
- 2011: Black Book Singles in Rails 3.1.



Why CakePHP?

- Already familiar with PHP.
- Writing every project from scratch is not the way to go.
- Features
 - Follows MVC principles.
 - Provides out of the box ORM.
- Has a following: support & documentation.

Familiar CakePHP Structure

- Object-oriented
- Controllers
 - Callbacks (beforeFilter, beforeRender)
 - Helpers (Text, Time, Html, Javascript, etc.)
 - Components ("controller helpers")
- Models
 - Relationships (hasMany, belongsTo, etc.)
- Views
 - Partials
- Plugins

Why Rails?

- Joined Food on the Table team to help with front-end code & Facebook integration.
- Weaseled my way into backend code.

Benefits of Rails over CakePHP

- 1. Overall structure of framework
- 2. Ruby language benefits
- 3. Plugin integration
- 4.Deployment

Benefit #1: Overall Structure of Rails Framework

Objects in CakePHP Controllers

- Define list of components, helpers, and models used within controller.
- Specify any additional controller config (e.g.: admin scaffolding).

Objects in Rails Controllers

```
def UsersController < ApplicationController
  include ControllerHelpers::UsersHelper
  include TextHelper
  # ...
end</pre>
```

- No need to specify models being used just use them.
- Still need to include helpers being used in controllers.
 - View helpers in controllers goes against MVC principles.

Filters in CakePHP Controllers

- Only one beforeFilter method
 - all processing must occur here
- Called before every controller request
 - not just for certain actions

Filters in CakePHP Controllers

 Achieving action-specific beforeFilter must be done within the function itself.

Filters in Rails Controllers

```
class ApplicationController < ActionController::Base
  protected

def set_location
    if !session[:location]
        location = Location.find_by_ip(request.ip)
        session[:location] = location if location
        end
    end
end

def UsersController < ApplicationController
    before_filter :authenticate_user!, :only => [:show]
    before_filter :set_location, :only => [:index, :new, :edit]

# ...
end
```

- No need to specify models being used (just any helpers).
- Any number of beforeFilter methods
 - code abstracted by utility
- Called before just the specified controller actions

Benefit #2: Ruby Language Benefits

- Closures
- Nothing similar in PHP
- Powerful tool, useful for many situations
- If you've used Ruby, you've used blocks

Loop through an array

```
list = [1, 2, 3, 4]

list.collect do |i|
   i ** 2
end
# [1, 4, 9, 16]

list.collect { |i| i ** 2 }
# [1, 4, 9, 16]
```

Define callbacks

```
def do_something(handler)
  puts 'About to call handler.'
  handler.call
  puts 'Handler was called.'
end

handler = Proc.new do
  puts 'SUCCESS! Inside my handler!'
end

do_something(handler)

# About to call handler.
# SUCCESS! Inside my handler!
# Handler was called.
```

Lambda scopes in Rails

```
class User < ActiveRecord::Base
  scope :gender, lambda { |sex| where(:gender => sex }
end

User.gender('m')

# [<User @id=1 @name='Joe' @gender='m'>,
  <User @id=3 @name='Bob' @gender='m'>,
  <User @id=7 @name='Tom' @gender='m'>]
```

Benefit #3: Plugins

CakePHP Plugins

- Installation
 - Search the web
 - Download zip
 - Check files into code base
- Maintenance
 - Search the web
 - Download new version (if available)
 - Overwrite files in code base

Rails Plugins

- Installation
 - Add reference to Gemfile
 - bundle install
- Maintenance
 - bundle update

Benefit #4: Deployment

CakePHP Deployment

- No implemented deployment strategy (until recently)
- Custom approach: mimic Rails
 - Numerically organized migrations
 - 001_create_users.sql
 - 002 create products.sql
 - Update code on server via ssh
 - svn update (or git pull)
 - mysql -uroot dbname < db/migrate/*
 - Repeat steps for staging/production
 - Build bash script to automate

Rails Deployment

- Rails migrations automatically ordered with timestamps
 - script/generate migration CreateUsers
 - rails g migration CreateUsers
 - rake db:migrate runs migrations in order
- Capistrano Gem
 - Run capify . to create template deploy.rb script
 - Run cap deploy or cap deploy: migrations
- Capistrano/Multistage Gem
 - deploy/staging.rb
 - deploy/production.rb

Why Rails? (Then)

- Joined Food on the Table team to help with front-end code & Facebook integration.
- Weaseled my way into backend code.

Why Rails? (Now)

- Fast iteration
 - Rails code generation
- Accessibility of gems/plugins
 - Github
 - Bundler
- Documentation & support
- Environment management
 - rvm

It's Official

I'm a Rails convert.

Matt Huggins



http://www.matthuggins.com



http://blackbooksingles.com



http://www.foodonthetable.com