# FW/1
# The Invisible Framework

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# What's in it for you?

- Don't like frameworks?
- Frameworks are too complicated?
- Don't like XML / configuration?
- FW/1 lets you build your application and forget about the framework - it's invisible!

# Don't Like That?

- Fine, go see:
  - OAuth... WTF?
    - Matt Gifford
  - Trust, Communication, Honesty: Pick Two
    - Chris Pelsior

# Who am I?

- Lead Developer, World Singles LLC
- CEO, Railo Technologies, Inc.
  - Fast Free Open Source CFML Engine
  - Development / Support Consultancy
- Nine years of CFML
  - Always been Java, always been OO!
- Long history of IT before that (grey hair!)

# What is FW/1?

# What is FW/1?

- Framework One
  - Very lightweight - just one CFC
  - Convention-based - no configuration
  - Model-View-Controller

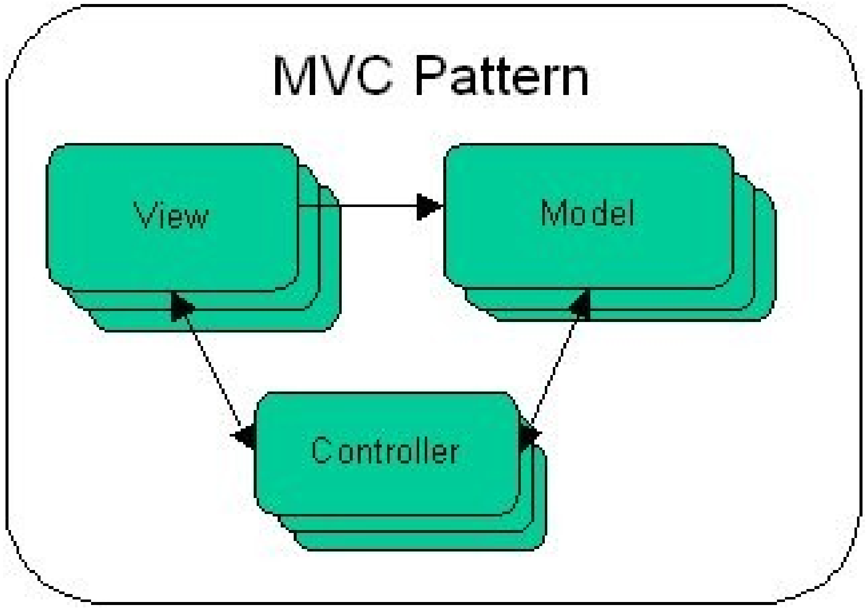
# Why did I create it?

- Why another MVC framework?
- Dissatisfied with other frameworks
  - They're big, bloated, complex and, with one or two exceptions, they require XML configuration in some way or other

# Why "FW/1"?

- It's a framework in one file!
- Years ago, I used a programming language called PL/1: Programming Language One
  - "IBM wanted a single programming language for all users"
  - One language to rule them all!

# Quickly: what is MVC?



- Model - data & business logic
- View - the display pages
- Controller - the "traffic cop" that routes requests, updates your Model and provides data to your Views

# Conventions

- FW/1 assumes your application is made up of sections and pages:
    - index.cfm?action=product.catalog
    - index.cfm?action=cart.display
- Supports SES URLs:
    - index.cfm/product/catalog
    - index.cfm/cart/display

# Conventions

- /product/catalog ➪
  - product controller (cfc), catalog() method☟
  - product folder, catalog view (.cfm)
- /cart/display ➪
  - cart controller (cfc), display() method☟
  - cart folder, display view (.cfm)
- ☞ controller methods are *optional*

# Conventions

- Additional conventions determine
  - how layouts are found and applied
  - how services can be called automatically

# The Simplest App

```
// Application.cfc:
component extends="framework" { }
<!--- index.cfm (empty) --->
<!--- views/main/default.cfm: --->
<p>Hello World!</p>
```

# The Simplest App

- http://fw1.local/examples/hello1/

# Views & Layouts

- A view is a display page (or page fragment)
- A layout is a wrapper (around **#body#**)
    - Layouts may render additional views
        - header, footer, navigation

# Views & Layouts

- http://fw1.local/examples/hello2/

# Views & Layouts

- **views/** folder contains
  - subfolder for each section of your app
    - containing the pages for that section
- **layouts/** folder contains
  - site-wide layout (**default.cfm**)
  - per-section layouts if needed
  - per-page layouts if needed

# Views & Layouts

- Layouts are optional
- Technically speaking, views are optional
  - onMissingView() called if no view found
  - Default behavior: viewNotFound()
    - Throw an exception
- Default view can be overridden
  - Controller can call setView()

# Controllers

- The "pounding heart" of an MVC app
- Contain the high-level "traffic cop" logic
  - Validation and control flow

# Controllers

- **controllers/** folder contains
  - CFC for each section of your app
    - containing methods for pages in that section (optional)

# Litepost with FW/1

- http://fw1.local/litepost/fw1/

# Business Logic

- Convention allows for
    - **services/** folder containing
        - CFC for each section of your app
            - containing methods for pages in that section (optional)
- Or call services directly from controllers
    - Recommended approach!

# Bean Factory Support

- If you use a bean factory (of any sort)
  - FW/1 asks it for controllers & services
  - FW/1 uses it for autowiring beans into controllers & services that it manages

# Subsystems

- Modular construction of large applications
- Reuse FW/1 applications as-is
- Similar to modules in Mach-II (but simpler)

# Subsystems

- http://fw1.local/examples/

# FW/1 in Production?

- Yes, Release 1.0 was early January 2010 after about six months of prerelease testing
- Lots of users have live sites in production!
- Mura uses FW/1 for its admin (as of 5.2)
  - Mura 5.2 was released February 2010
- Release 1.1 June 2010, 1.2 October 2010
- Release 2.0 in development

# FW/1 Roadmap

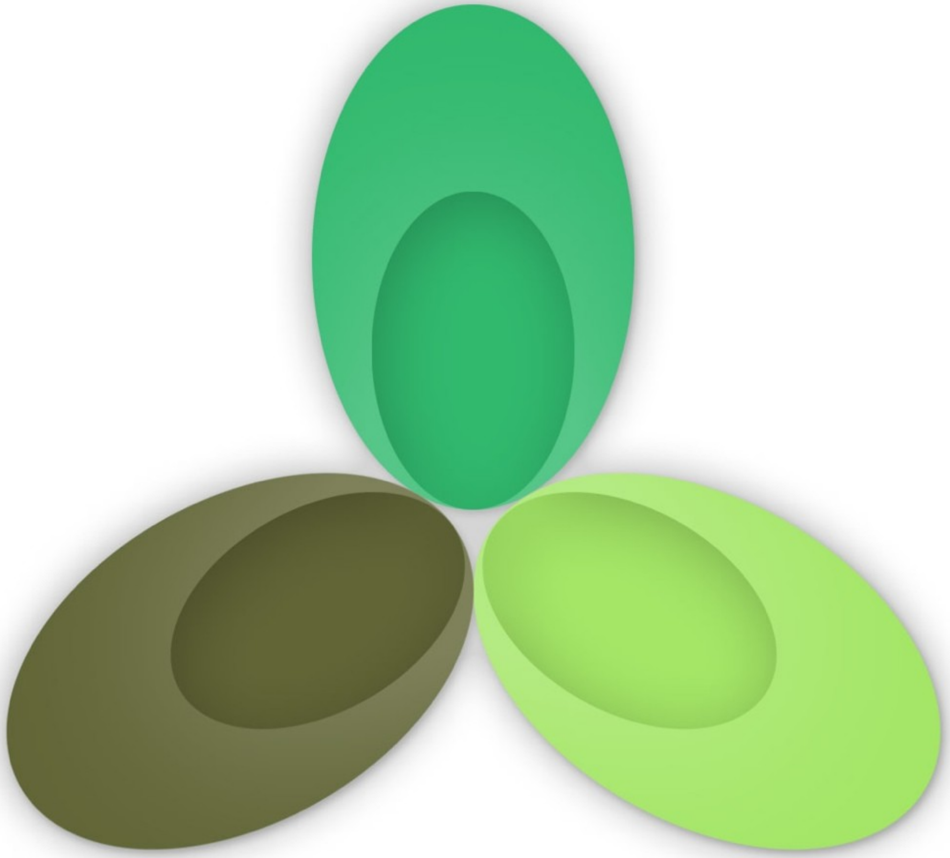
- 2.0 - all cfscript
  - Requires CF9 / Railo 3.2 / OpenBD 1.4
- 1.3 - bug fix / migration release
  - 1.x stream will continue to support older CFML engine releases

# FW/1 Wrap-Up

# The Invisible Framework

- Very lightweight (& fast)
- Easy to learn, easy to use
- No XML, no configuration
- FW/1 is all about simplicity
  - Just like CFML!

# Resources



- Main FW/1 project site
  - http://fw1.riaforge.org/
  - Over 5,700 downloads!
- Mailing list
  - http://groups.google.com/group/framework-one/
  - Over 360 members!

# Q&A

# Contacting Me

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