

Filthy Flex

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 **Getting Started**

 **8 Demonstrations**

 **Summary**

Filthy Rich Clients ...

... are application so *graphically rich* that they ooze *cool*, they suck the user in from the outset and hang onto them with a death *grip of excitement*.

They force the user tell their friends about the application.

Although amazing things have been accomplished within the confines of **JavaScript**, using technologies like Ajax, JSON, GWT etc., these are nonetheless confines. We bump up against their **limit** every day, and those limits are not going away.

I believe that to solve the user interface problem, we need the equivalent of a **DSL** dedicated to the **user experience**.

For me, Flash-based technologies like **Flex** are the **best solution** to this problem.

Getting Started

Some Facts



- cross platform rich internet applications
- OpenSource SDK, VM
- Eclipse Plugin **Flex Builder**
(commercial; free for education customers)
- Web (Flash Player) / Desktop (AIR) /
Mobile (FlashLite)
- ActionScript and MXML

ActionScript

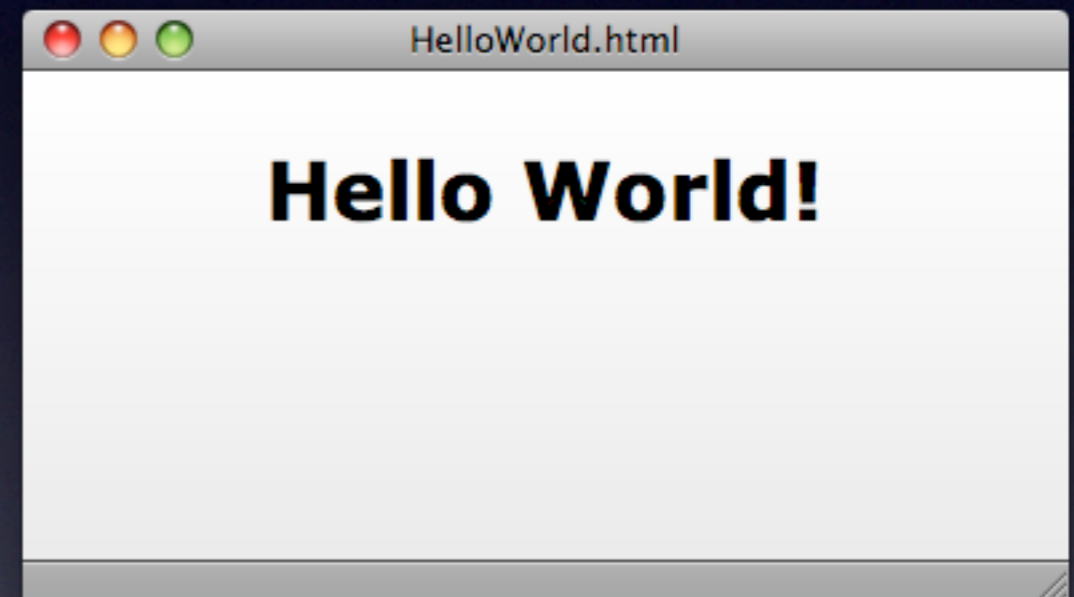
```
package at.jsug {  
  
import logging.Logger;  
  
public class Demo extends AbstractDemo implements IDemo {  
  
    private static const LOG: Logger = Logger.getLogger("at.jsug.Demo");  
    private var name: String;  
  
    public function Delme(name: String) {  
        this.name = name;  
    }  
  
    public static function myOperation(value: Number): int {  
        LOG.info("myOperation(value=" + value + ")");  
        return value / 2;  
    }  
  
}}
```

Demonstrations

Demo 1

Hello World

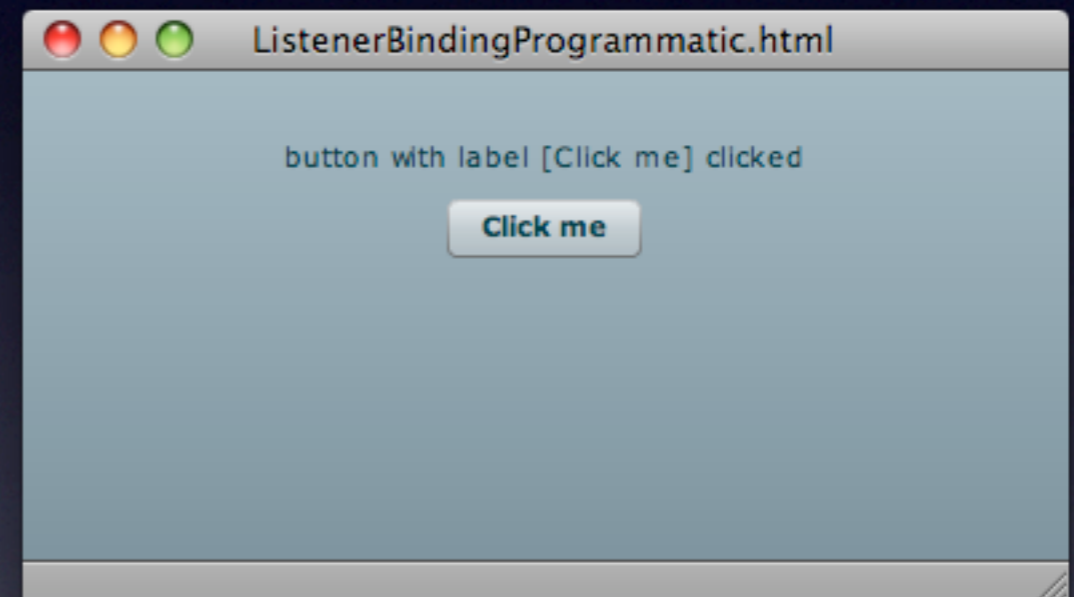
Display custom styled Label
Changed Backgroundcolor
Outsource CSS definitions



Demo 2

Listener & Binding

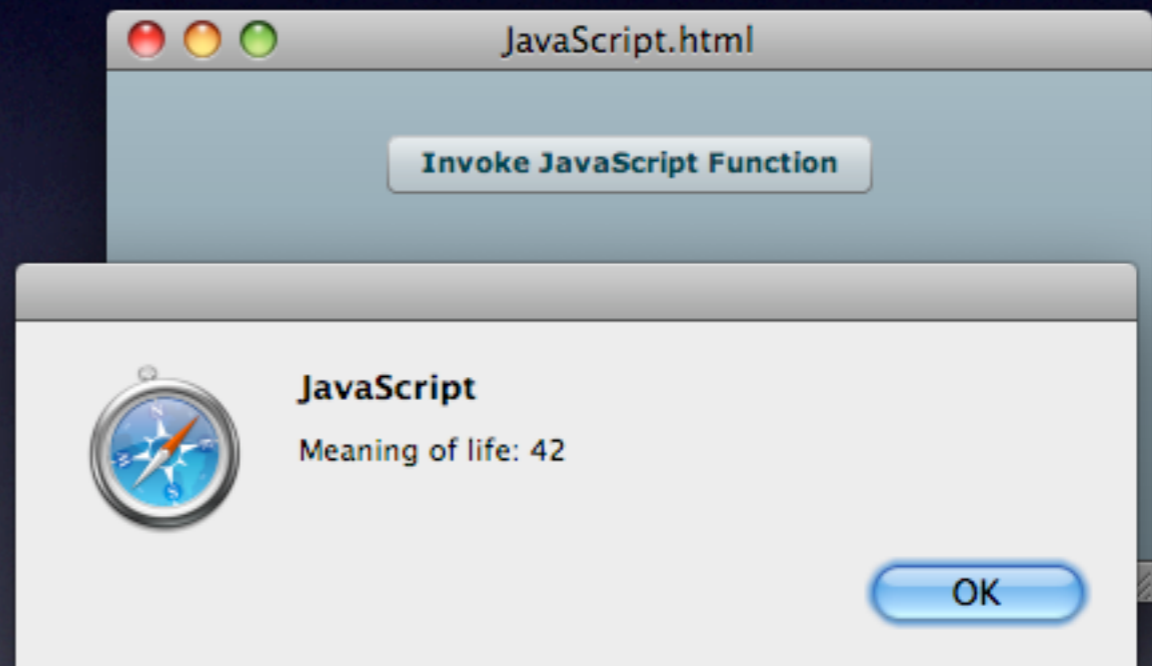
- Handle Button click
- Determine Event source
- Changing bound Values
- Programmatic Event Listening



Demo 3

JavaScript Invocation

Create and Include JS File
ExternalInterface.call()
Passing Arguments



Demo 4

XmlRequest

Bind DataGridView's dataProvider
Initiate HTTPService
Register result/fault handler



The screenshot shows a web browser window with the title 'XmlRequest.html'. Inside the window, there is a table with three columns: 'id', 'firstName', and 'lastName'. The table contains two rows of data: the first row has '1' for id, 'Christoph' for firstName, and 'Pickl' for lastName; the second row has '2' for id, 'Florian' for firstName, and 'Motlik' for lastName. The table is rendered with a light blue background and white text.

id	firstName	lastName
1	Christoph	Pickl
2	Florian	Motlik

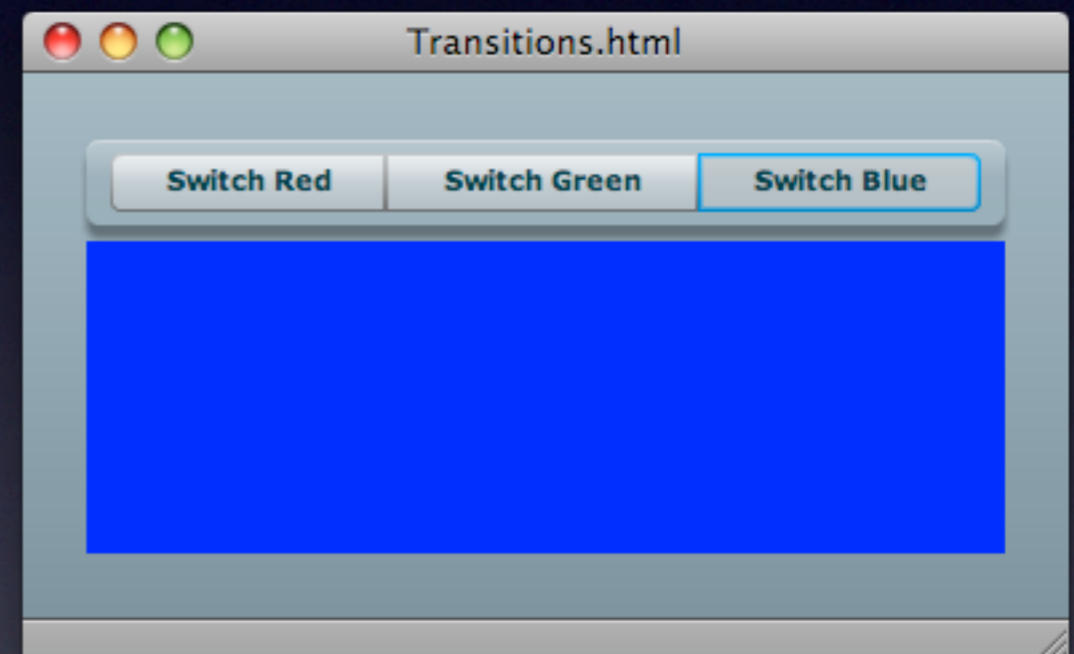
Demo 5

Transitions

Fill ViewStack

Create Buttons and add Effects

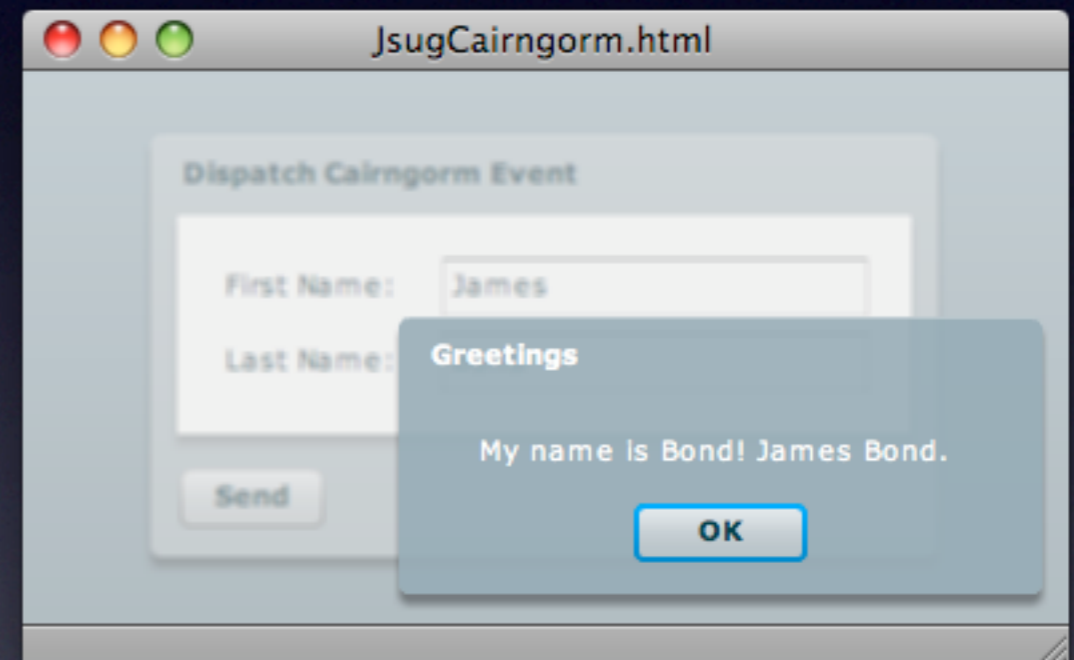
Custom Component



Demo 6

Cairngorm

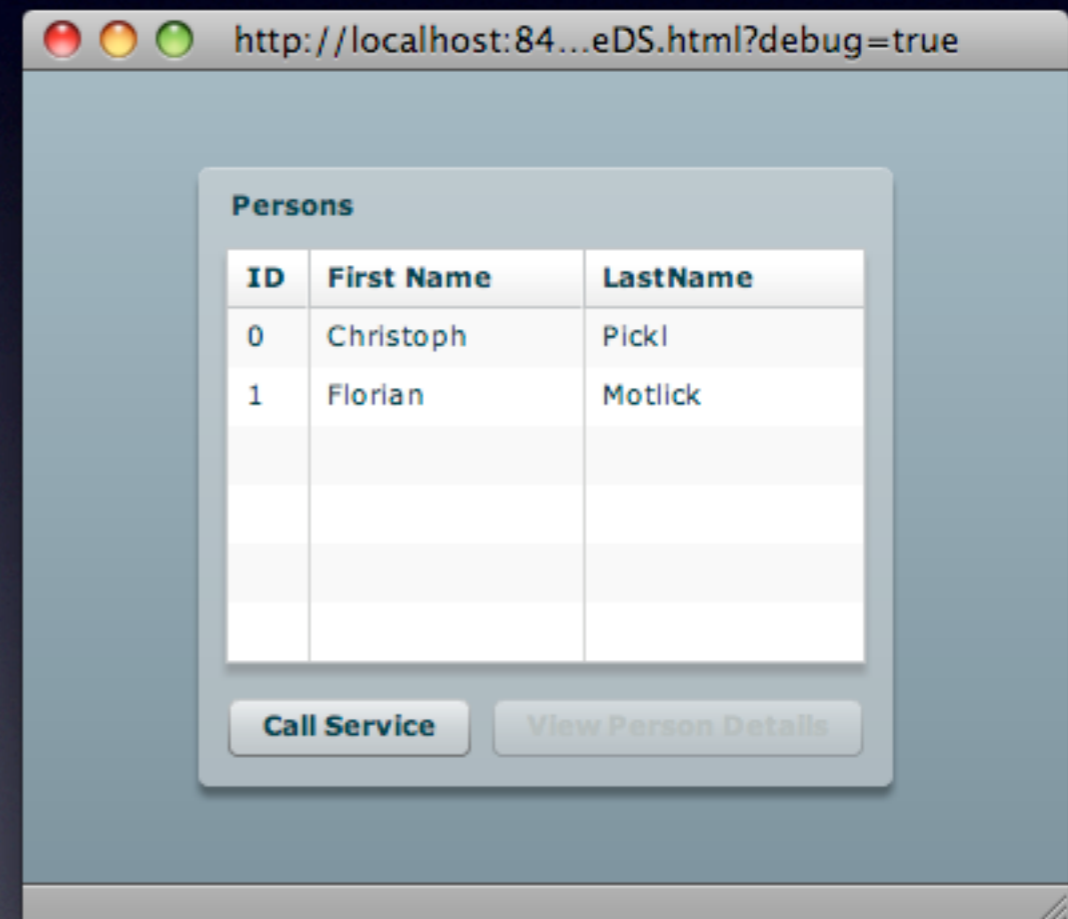
Enforces MVC Pattern
Front Controller Delegates
Map Commands and Events
Bind View to Model



Demo 7

BlazeDS

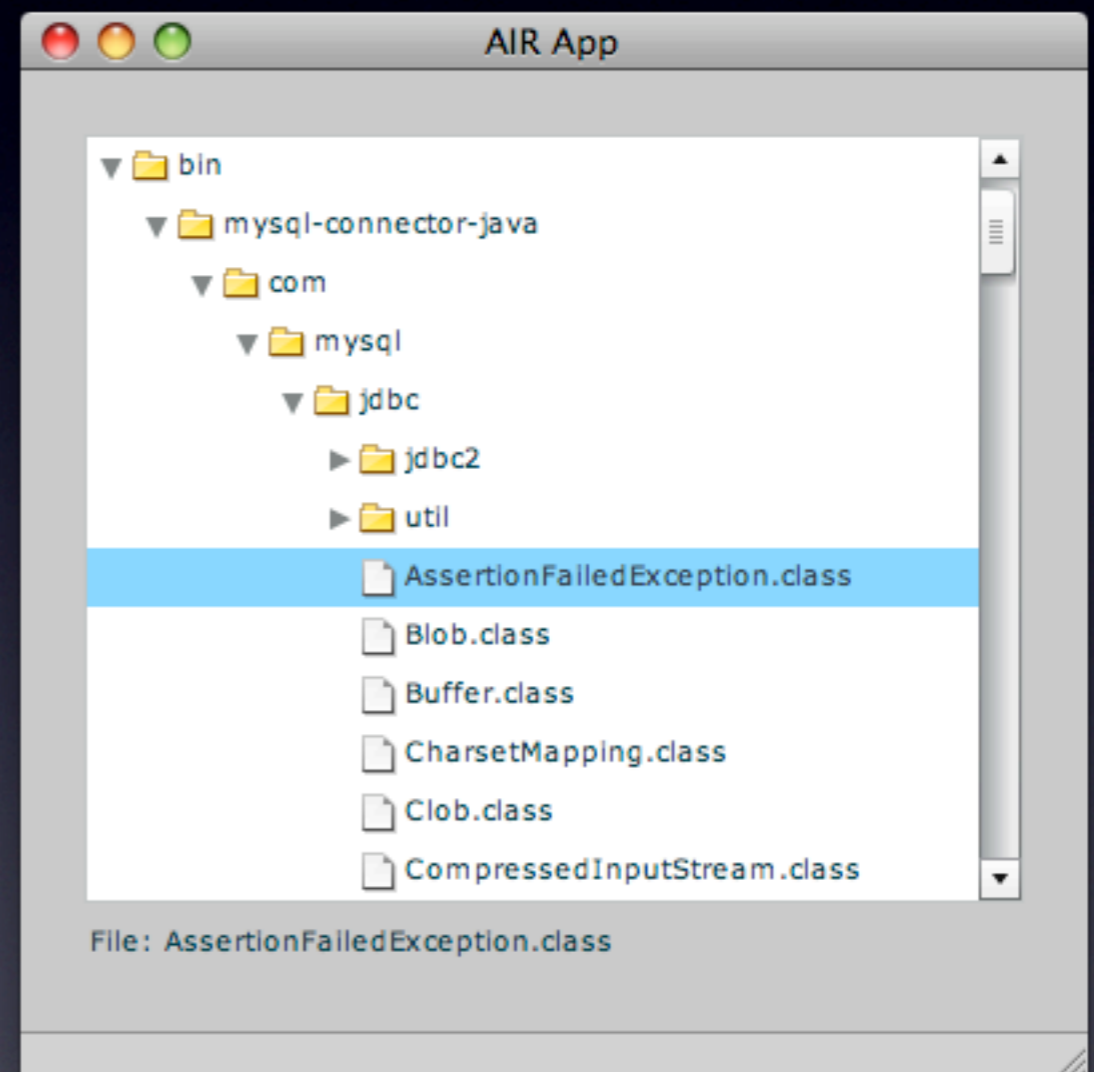
Create Java Service
Define Destination
Instantiate RemoteService
Use RemoteClass Metatag



Demo 8

AIR App

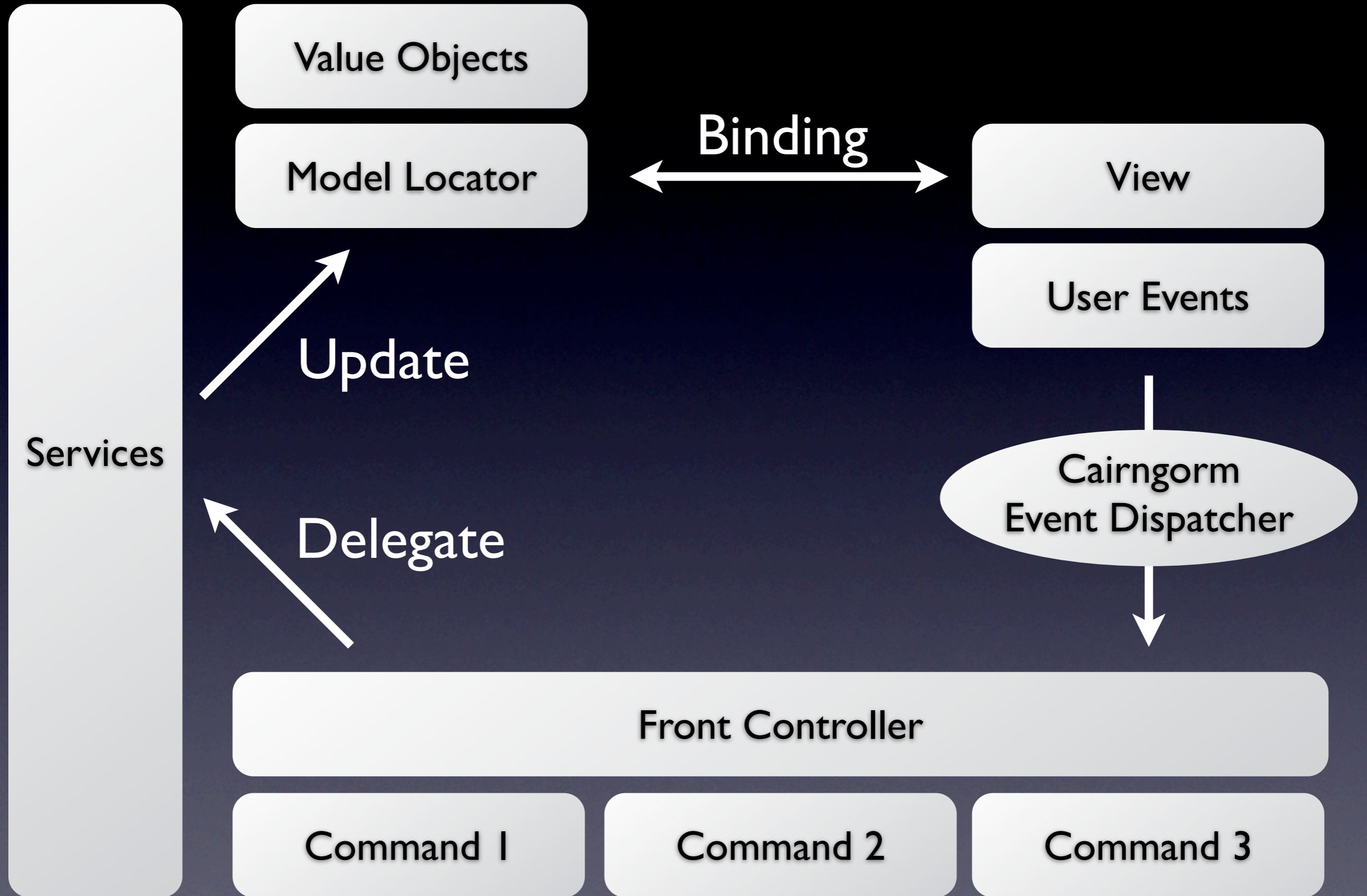
Select AIR in Project Wizard
That's it!



Summary

Technologies

- LiveCycle Enterprise Suite
SOA J2EE-based server software package
- BlazeDS
Server-based Java remoting and web messaging
- Red5
OpenSource Flash RTMP server (Streaming)
- Merapi
Building a Bridge between Adobe AIR and Java
- Cairngorm
Architectural Framework enforcing the MVC Pattern



Actionscript

common

new

Packages, Classes, Interfaces

bindings, properties

extending, implementing

functions as 1st class citizens

Exception handling

type declaration after colon

Visibility, static

member type (var/function)

instantiation, foreach, ...

default parameter values

Actionscript

Java Style

AS Style

final



const

private int x;



private x: int

instanceof, (T)



is, as

optional @Override



override keyword required

@Annotation(name="Foo")



[Metatag(name="Foo")]

Links

Huge amount of code samples

<http://blog.flexexamples.com/>

Flex 3 Cookbook (Free PDF)

http://books.google.com/books?id=7fbhB_GIQEAC

Online Video Tutorials

<http://tv.adobe.com/>

Interactive Styles Explorer

http://www.adobe.com/go/flex_styles_explorer

Adobe Flash Player 10



Error: Your version of Windows is not supported! Please kneel down and pray for a Service Pack.

```
at jsug.cairngorm::FoobarCommand/someHorribleDelegate()[/Users/phudy/JavaDev/JsugCo
at jsug.cairngorm::FoobarCommand/execute()[/Users/phudy/JavaDev/JsugCompleteCairngo
at com.adobe.cairngorm.control::FrontController/executeCommand()[C:\dev\swat\projects\
at flash.events::EventDispatcher/dispatchEventFunction()
at flash.events::EventDispatcher/dispatchEvent()
at com.adobe.cairngorm.control::CairngormEventDispatcher/dispatchEvent()[C:\dev\swat\pr
at com.adobe.cairngorm.control::CairngormEvent/dispatch()[C:\dev\swat\projects\ac_emea
at JsugCairngorm/onSendPerson()[/Users/phudy/JavaDev/JsugCompleteCairngorm/src/Jsug
at JsugCairngorm/___JsugCairngorm_PersonPanel1_sendPerson()[/Users/phudy/JavaDev/Jsug
at flash.events::EventDispatcher/dispatchEventFunction()
at flash.events::EventDispatcher/dispatchEvent()
at mx.core::UIComponent/dispatchEvent()[E:\dev\3.0.x\frameworks\projects\framework\src
at PersonPanel/onSendButtonClicked()[/Users/phudy/JavaDev/JsugCompleteCairngorm/src/
at PersonPanel/___PersonPanel_Button1_click()[/Users/phudy/JavaDev/JsugCompleteCairngo
```

Dismiss All

Continue