Eclipse @ eBay
Michael Galpin, eBay
http://fupeg.blogspot.com
History

Architecture
In the Beginning...
In the Beginning...

- AuctionWeb, 1995
In the Beginning...

- AuctionWeb, 1995
- eBay, V1 Architecture
In the Beginning...

- AuctionWeb, 1995
- eBay, V1 Architecture
  - Perl
Rapid growth
- Rapid growth
- V2 Architecture
- Rapid growth
- V2 Architecture
- C++ Back-end
Rapid growth

V2 Architecture

C++ Back-end

XSLT Front-end
V3

- Exponential Growth
V3

- Exponential Growth
- C++ Replaced with Java (2001)
- Exponential Growth
- C++ Replaced with Java (2001)
- Front-end not changed
Growing Pains...
Growing Pains...
Growing Pains...

Broken Images

JavaScript Errors
Growing Pains...

Broken Images

JavaScript Errors

33 Languages
Growing Pains...

- Broken Images
- JavaScript Errors
- AJAX
- Web 2.0
- 33 Languages
Growing Pains...

- Broken Images
- JavaScript Errors
- 33 Languages
- AJAX
- Web 2.0
- Localization
V4

XSLT
Java != Silver Bullet
Java != Silver Bullet

- Everything is Java
Java != Silver Bullet

- Everything is Java
- Everything is Code
Java != Silver Bullet

- Everything is Java
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- Image = Java Class
Java != Silver Bullet

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Java != Silver Bullet

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- LOTS OF CODE TO WRITE!!
Java != Silver Bullet

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  - JavaScript = Java Classes
  - Content = Java Classes
- LOTS OF CODE TO WRITE!!
Code Generators
Code Generators

CSS
Code Generators

CSS

JavaScript
Code Generators

CSS

JavaScript

Content
Advanced Editors
Advanced Editors

Content
Advanced Editors

JavaScript Coming Soon

Content
Visual Explorers
Visual Explorers

Images

Links
Visual Explorers

Images

Links

Apps
Wizards
Developer Productivity: Dervlets

```java
package v4.dsf.tut.apppartsbindox.code;

import com.ebay.dsf.html.dom.DH1;

public class BitByBit01 {
    public DH1 showTitle() {
        return new DH1("Marriage Survey");
    }
}
```
Developer Productivity:
Spyglass
Developer Productivity: Spyglass
Dependencies
Managing Complexity
Managing Complexity
Managing Complexity
Managing Complexity

- Package Explorer
- Hierarchy
- JUnit

- AppModuleSample
- ComponentSample
- ComponentSampleContent
- ConfigInitWar
- ConfigWeb
- ContentSample
- ContentSampleContent
- CssSample
- DarwinAllTests
- DarwinCodeGen
- DarwinCodeGenImpl
- DarwinCommon
- DarwinCommonApp
- DarwinCommonAppTests
- DarwinCommonComponents
- DarwinCommonComponentTests
- DarwinCommonPortal
- DarwinCommonPortalTests
- DarwinCommonTests
- DarwinCommonTestUtils
- DarwinCoreApp
- DarwinCoreAppResources
- DarwinCoreAppTests
- DarwinCoreComponents
- DarwinCoreComponentsContent
- DarwinCoreComponentsTests
- DarwinCorePortal
- DarwinCorePortalTests
- DarwinCoreSample
- DarwinCoreSampleContent
- DarwinCoreSampleTests

- Are you sure?
- Please confirm your preferences before proceeding.
- To Modify Preferences: (Window | Preferences | eBay)
- The following Tasks will be performed:
  1. All projects will be removed from your workspace.
  2. V3_HOME will be set (only if needed) to:
     D:\Views\v4flash\v4darwin\ProjectBuilds\Argfiles\v4flash.txt -argfile
     D:\Views\v4\build_args.txt -eclipse
  3. The Following Build Arguments Will Drive The V3 Build:
     Build.pl -argfile
     d:\Views\v4flash\v4darwin\ProjectBuilds\Argfiles\v4flash.txt -argfile
     "D:\Views\v4\build_args.txt" -eclipse
  4. The PSF Importer Will Import Projects In The Following PSFs:
     D:\Views\v4flash\import.psf
  5. The WorkSpace Builder Will Build All Projects.

- If you agree, press "OK" to continue.
- Otherwise, press "Cancel" and modify your preferences.
Managing Dependencies
Managing Complexity
Managing Complexity

```
-snowsplash
org.eclipse.platform
-vmargs
-Xdock:icon=../Resources/Eclipse.icns
-XstartOnFirstThread
-Xms1024m
-Xmx2048m
-XX:MaxPermSize=1024m
-Dosgi.requiredJavaVersion=1.5
```
Managing Complexity

Lighten Your Load
Managing Complexity

Megajars

Lighten Your Load
Essentials
Auto-configuration
Essentials

FindBugs™

Auto-configuration
Essentials

FindBugs™

ClearCase

Auto-configuration
Essentials

FindBugs™

ClearCase

WTP

Auto-configuration
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