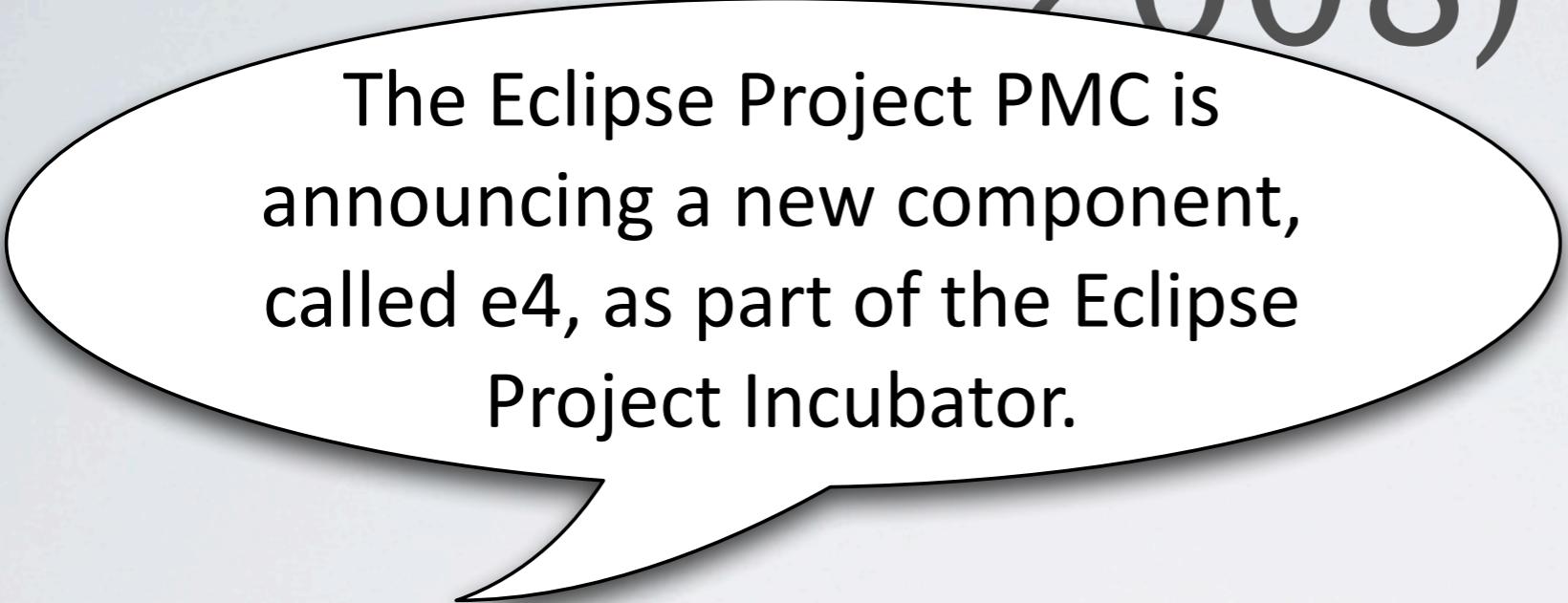


The Way to Eclipse 4.0 and 4.1

Tom Schindl – tom.schindl@bestsolution.at
Boris Bokowski – Boris_Bokowski@ca.ibm.com

How it all began (March 5, 2008)

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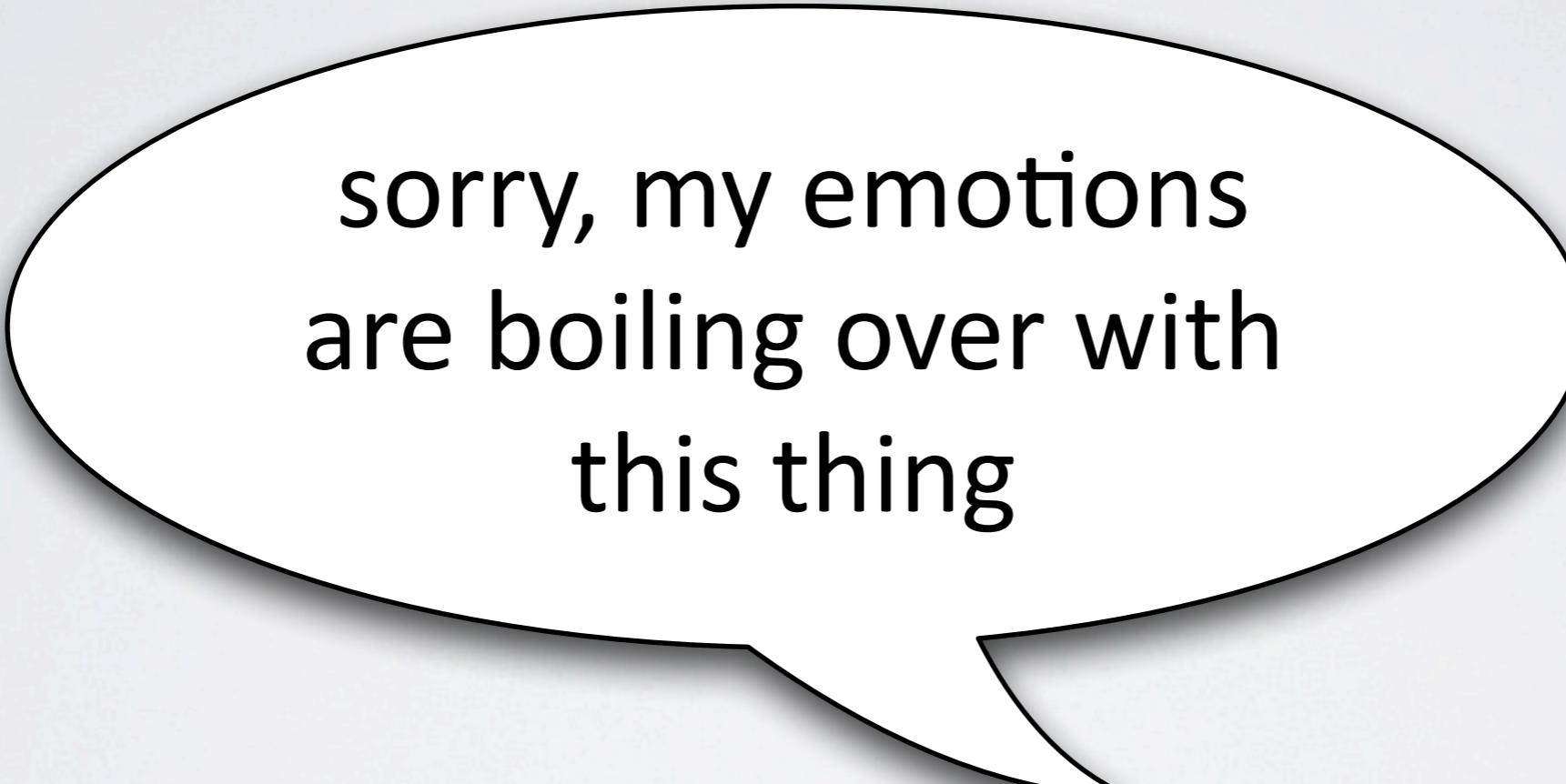
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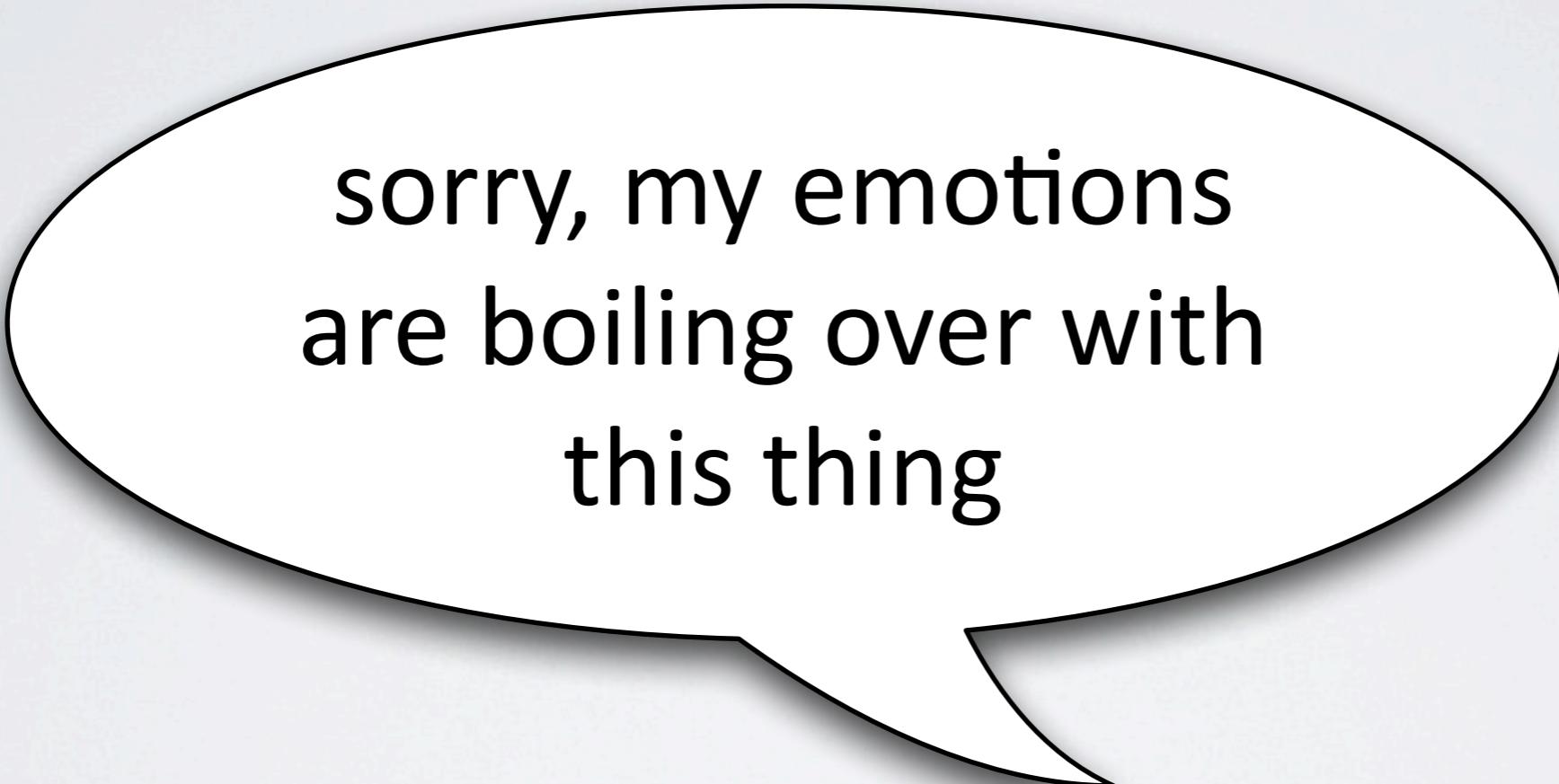
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sorry, my emotions
are boiling over with
this thing

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Doug S.

EclipseCon, March 18 2008

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- Separation of WB Model and View
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e4 Summit, May 22, 2008

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- Dependency Injection
- Flexible Resources



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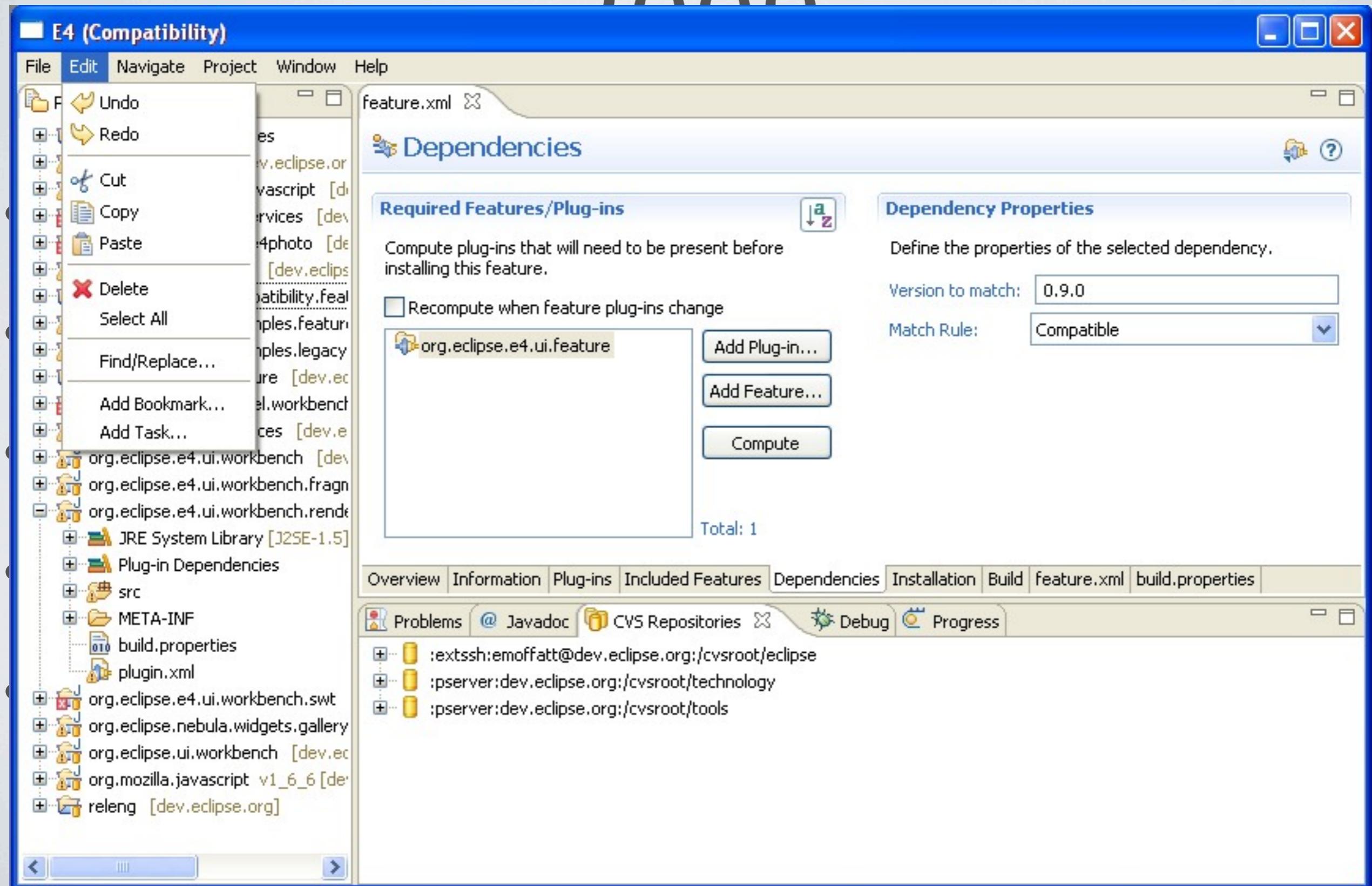
Wayne B.



Goals

- Make it easier to develop Eclipse-based plug-ins and apps
- More control over look & feel
- Better maintainable code base for Eclipse Workbench
- Revitalize Eclipse Platform

e4 0.9 Release, Summer 2010



e4 0.9 Release, Summer 2009

- Complete Proof of Concept Implementation
- Programming Model (DI, Services)
- Models, Renderers, CSS
- Compatibility Layer
- ... but it was not quite right, and we didn't self-host

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Meanwhile...

- XWT made progress, lots of discussions around XWT and TM
- Flexible Resources work went into 3.x stream
- New People and Ideas showed up: REST-based Resources, more recently: Deep linking

SWT Browser Edition

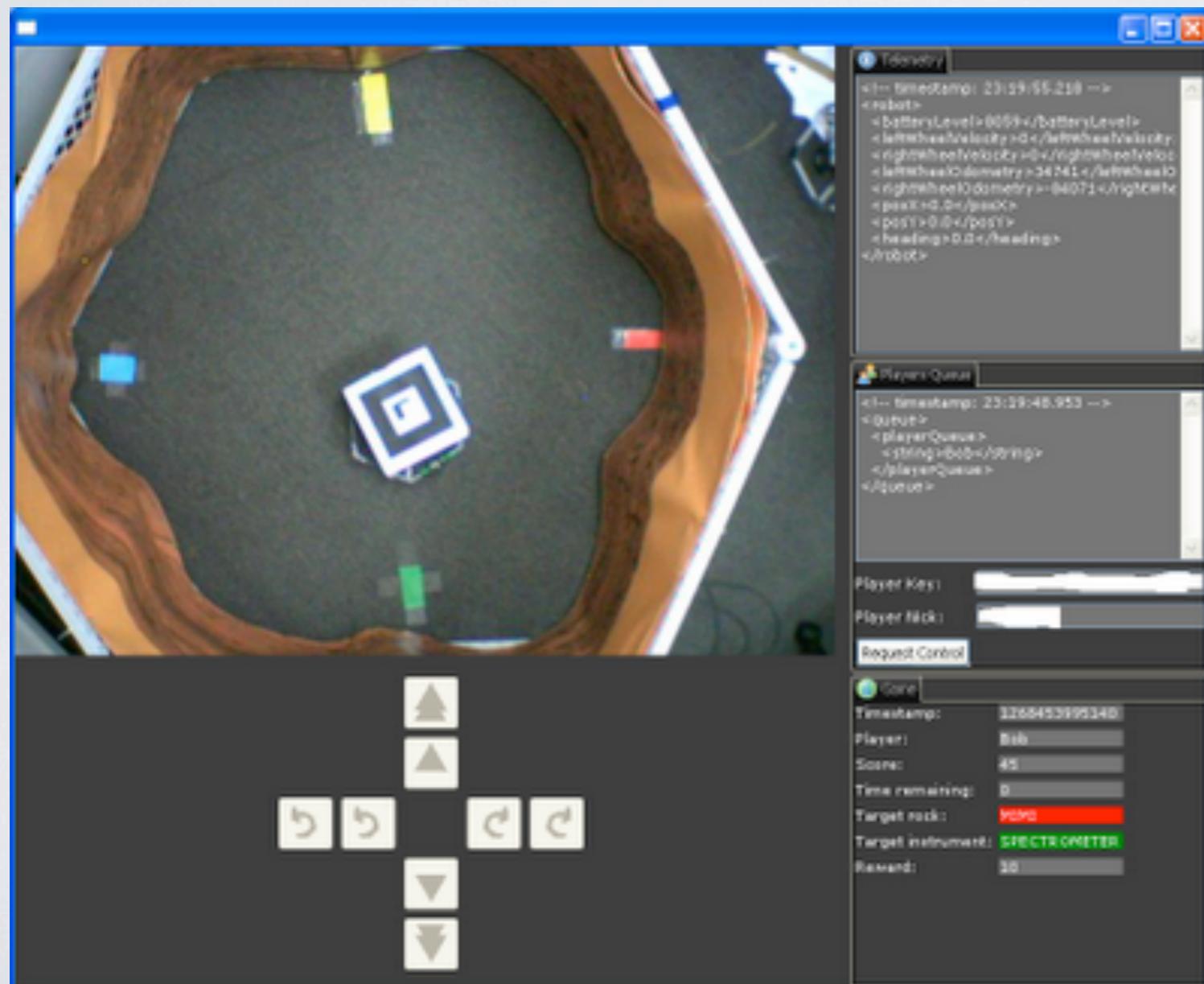
- Technology worked really well
- But not applicable without rewriting Java
- We'd rather rewrite with HTML5, JavaScript, CSS

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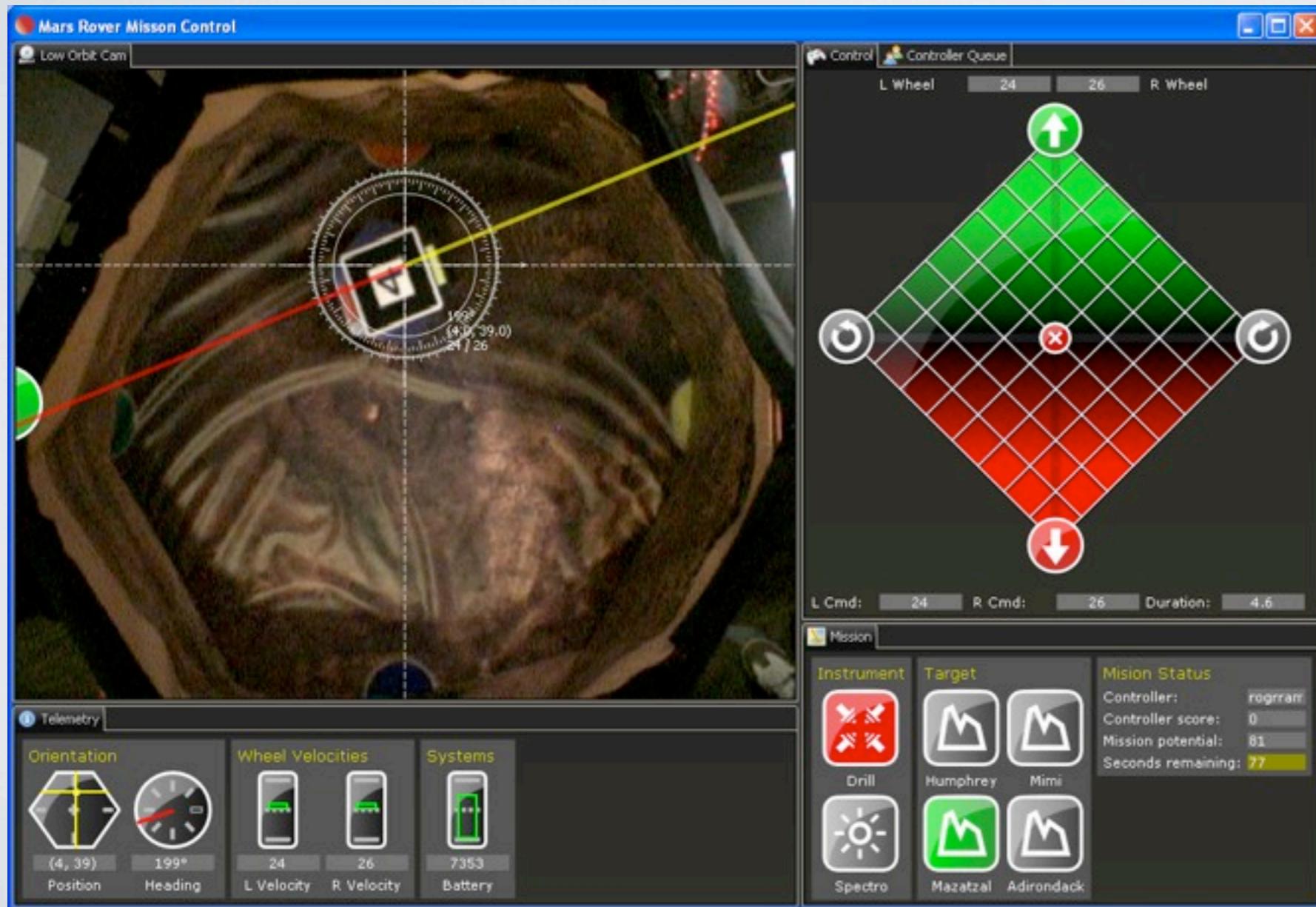
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EclipseCon 2010



EclipseCon 2010



Eclipse SDK 4.0 (Early Adopter)

- Released in July 2010
- This time, for real, with self-hosting
- Realized that downstream projects and products need time to adopt, hence early adopter
- New Name: Eclipse 4.0 Application Platform

Eclipse 4.0 SDK Early Adopter Release

Rest of Platform:
Debug,
Text,
Team,
...

JDT:
Java Editor,
Java Debugging,
Refactoring,
...

PDE:
Manifest Editor,
Launching,
API Tooling,
...

Workbench (Compatibility, provides 3.x APIs)

Eclipse 4 Application Platform

Modeled UI, CSS styling, Dependency Injection, Application Services

Equinox



EMF Core



SWT, JFace



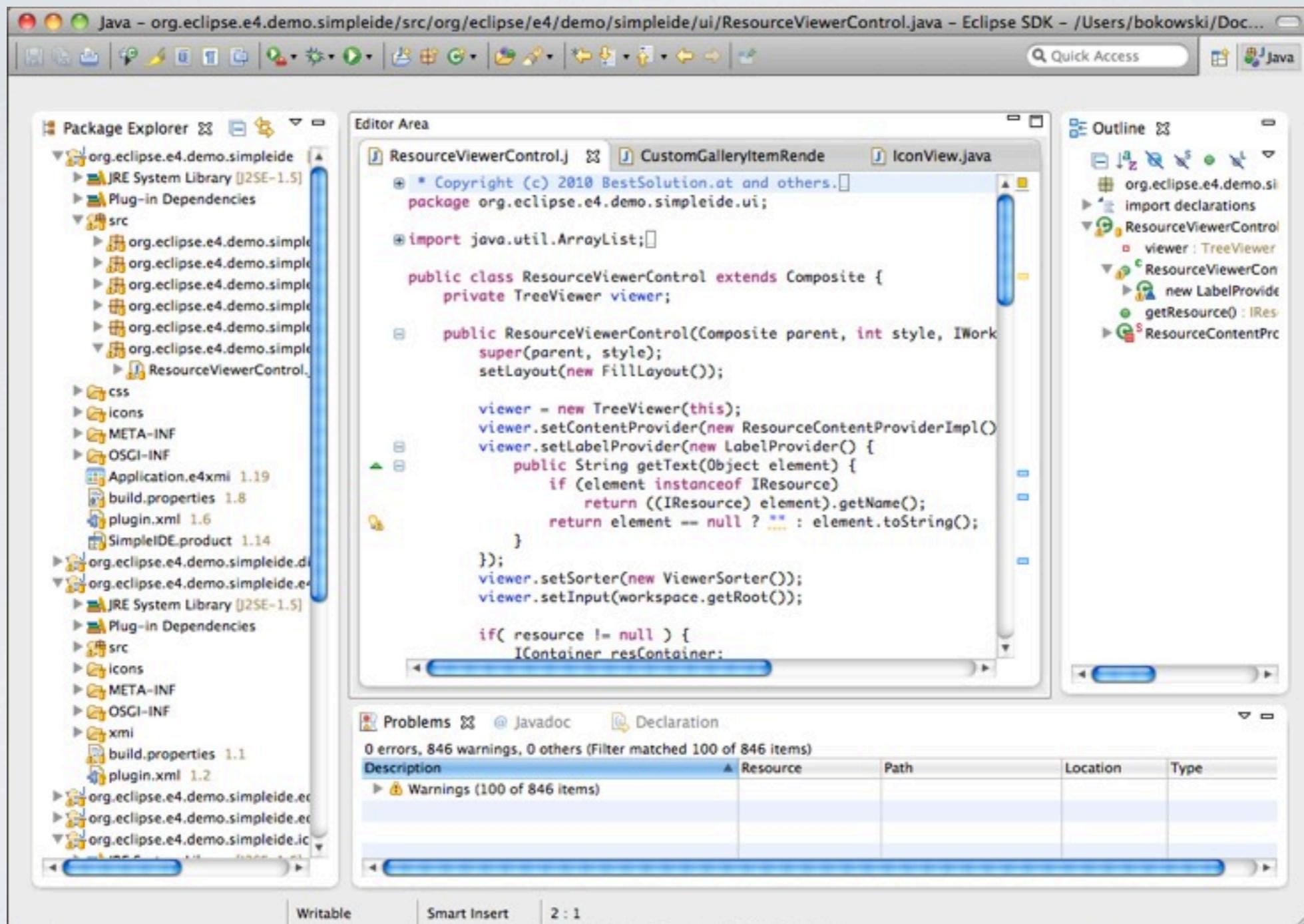
Java Virtual Machine

OS (Windows, Mac, Linux)

Main differences to 3.x

- Lower barrier of entry
- More gradual learning curve
- Easier to test
- Pluggable look & feel

Demo



CSS, New Look / Mixing views and editors / Live Model Editing

Future: 4.1 and beyond

- Eclipse SDK 4.1
 - All of Indigo should run well
 - Need to complete the story:
Context menus, Intro, Key bindings,
Internationalization, ...
 - Eclipse 3.7 will be released at the same time

New end-user features in 4.1

- committed
 - More flexible view/editor resizing
 - documentation
- proposed
 - Become faster than 3.x!
 - Drag & drop for toolbars
 - More complete search box
 - Tab improvements
- deferred
 - Tooling (Model, Dependency Injection)

New runtime features in 4.1

- committed
 - Improvements in Dependency Injection mechanism
 - Completing menu/commands work
 - Internationalization of Workbench UI
- proposed
 - Support for native Mac toolbar
 - More flexible contributions using XPath
 - forward compatibility layer
- deferred
 - Authentication / authorization

e4 – the incubator project

- Ongoing development: XWT, Deep linking, REST-based resource model
- We're open for pretty much anything!
- EclipseCon 2010: e4 won the “most open project” award

Questions?