



**JUDCon**  
JBoss Users & Developers Conference  
Boston:2010

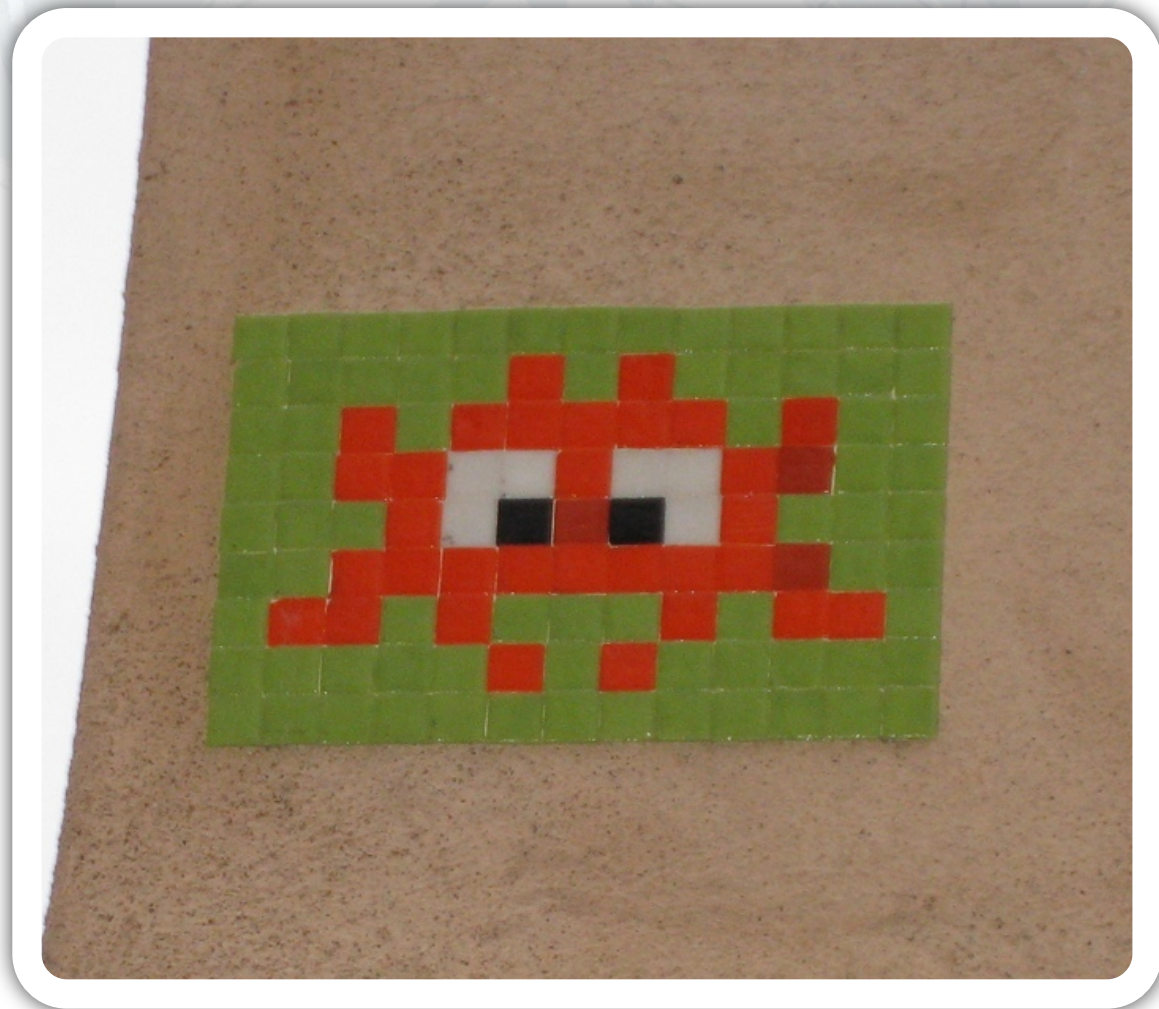
**By: Wesley Hales**  
[jboss.org/portletbridge](http://jboss.org/portletbridge)  
[wesleyhales.com](http://wesleyhales.com)

“The portlet bridge does  
for portals what Facelets  
did for JSF”  
--Wesley Hales





# Take Aways



- Why create/use JSF Portals?
- How to use JSF within a portal.
- Best practices/Tips & Tricks





# If You Know JSF, You Know Portals and Portlets

- Thanks to the JSR-301/329 Portlet Bridge
- You are no longer required to learn the underlying API
- But there are some things you must know









# Concepts & Usecases

- Multiple teams working in parallel on completely different frameworks/versions.
- Blended content with legacy apps.
- leverage existing investment (not only in tech but in work

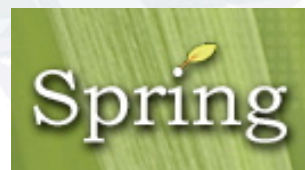




# Portlet Bridges



**Struts**



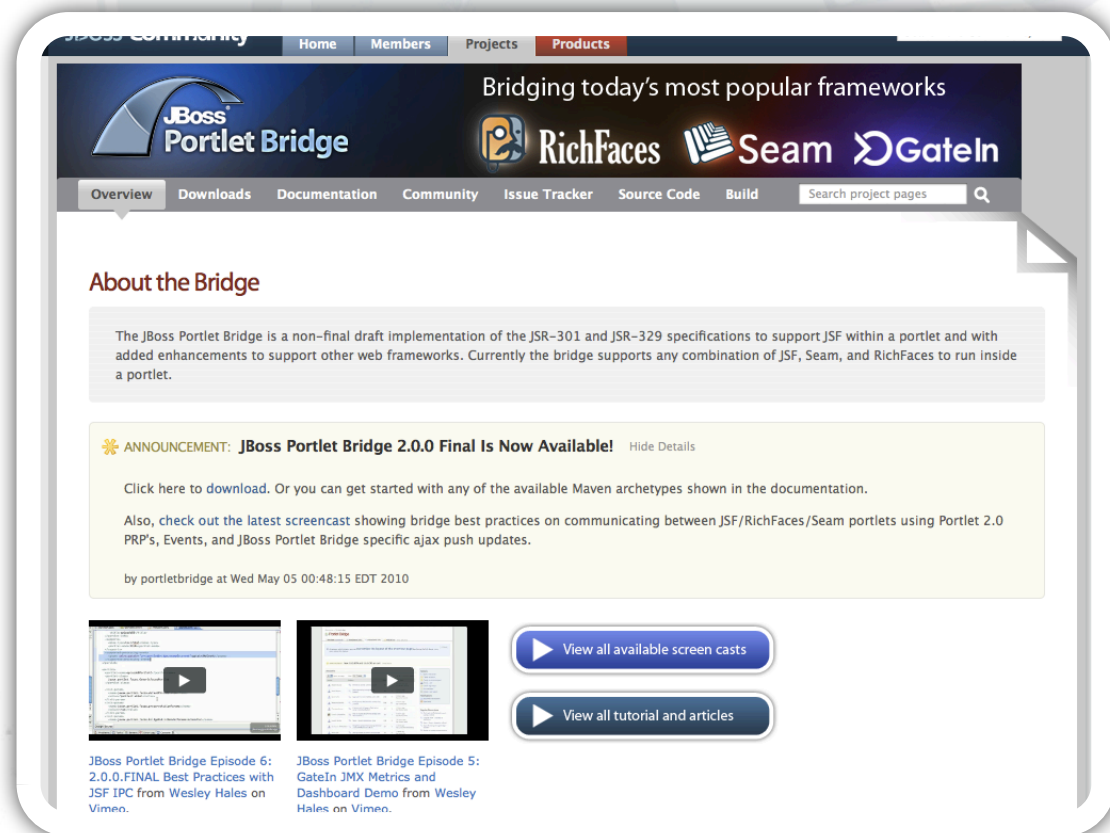
- In the past, most were homegrown and not portable.
- Today there are 2 specs for running JSF 1.2 in a portal.
- JSF 2.0 does not have a bridge spec (yet).



# The JBoss Portlet Bridge



- JSF 1.2, 2.0, Richfaces, and Seam
- Healthy usage across multiple containers – backed/tested by the community.
- Makes working with portals easier





# Getting Started Demo

## Maven Archetypes

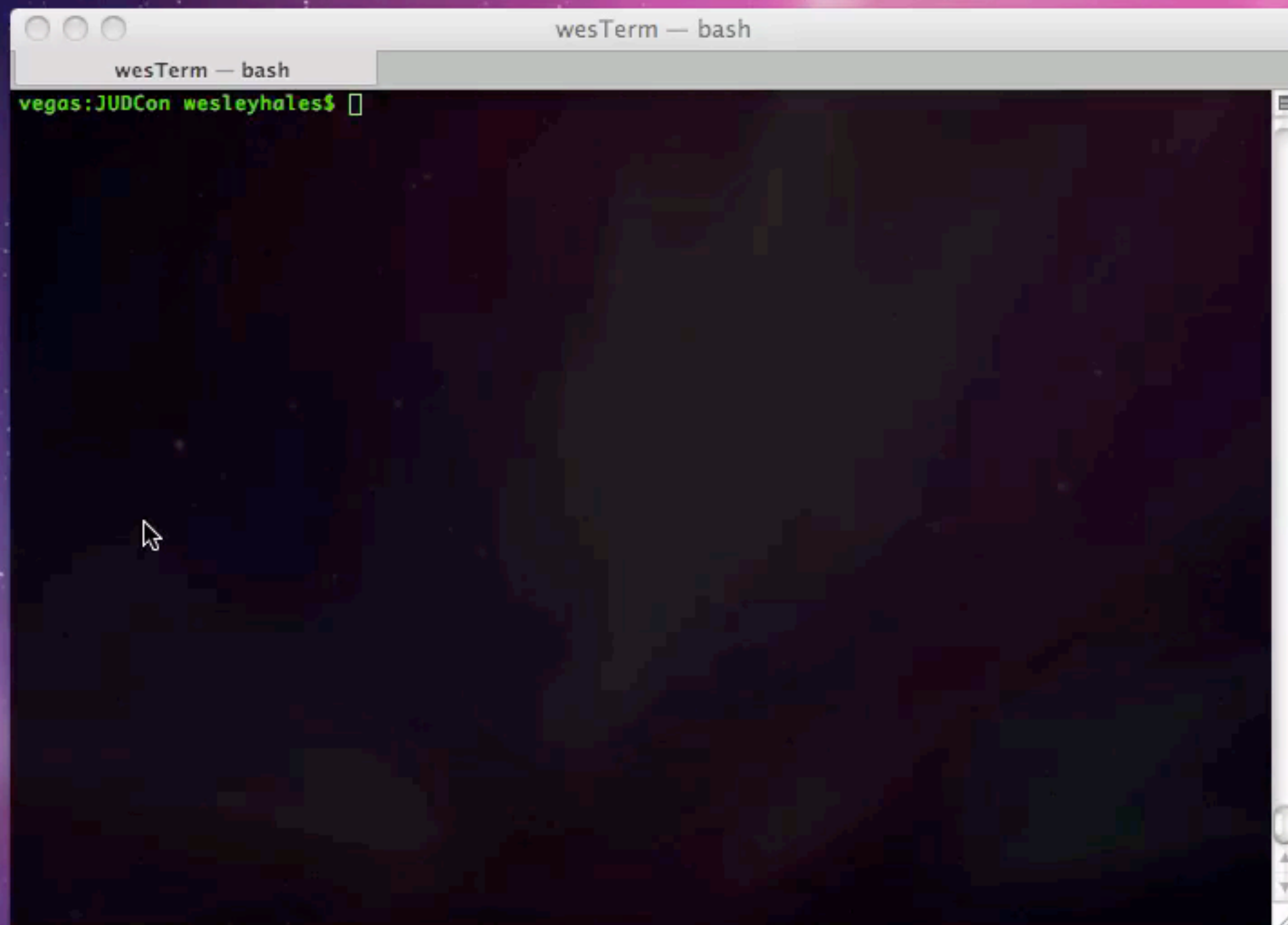


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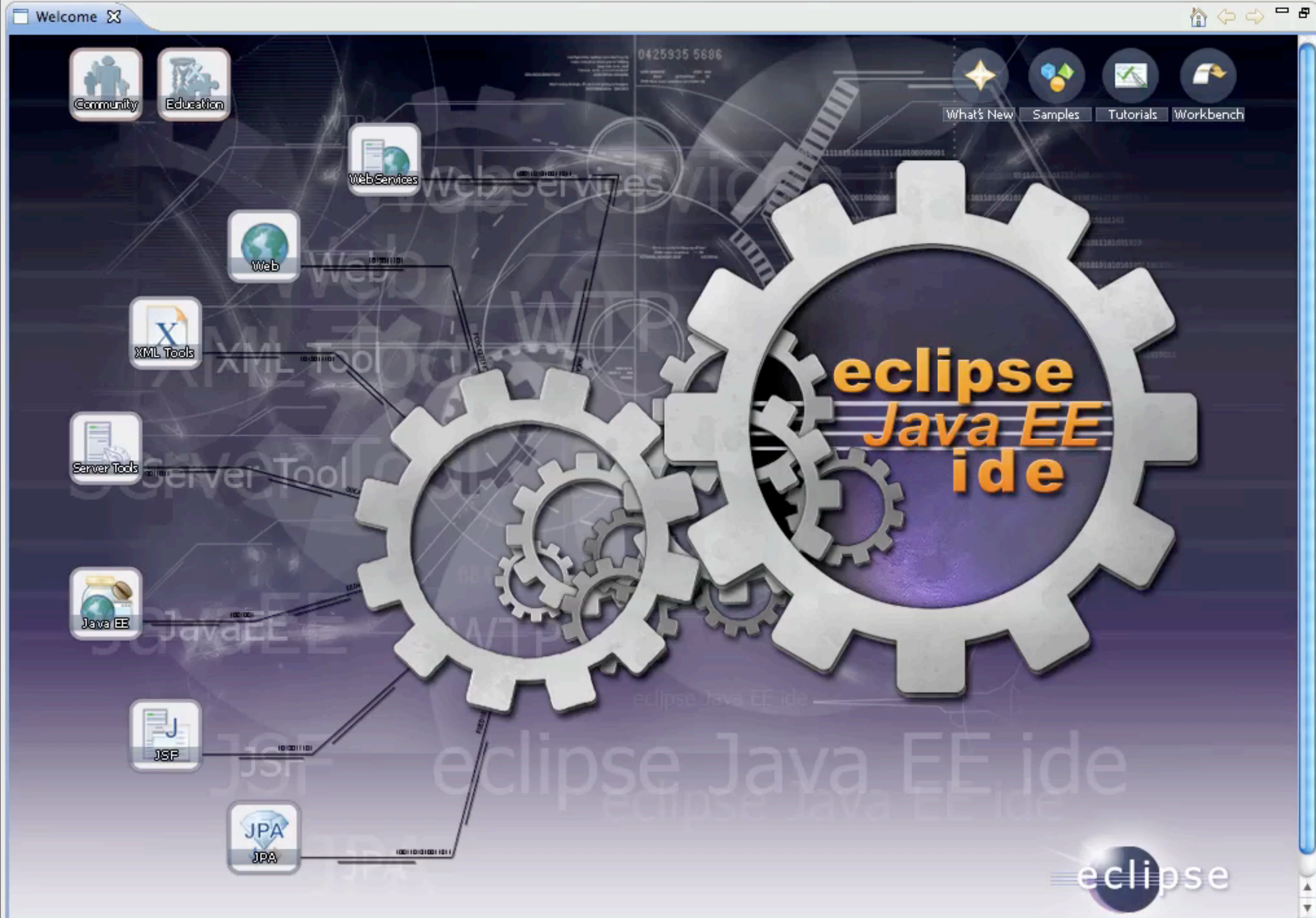


# Getting Started Demo



## JBoss Tools







# Getting Started Demo







GateIn is the new generation of Open Source portal, jointly led by Red Hat and eXo Platform who partner to gather the best portal experts and communities around a robust and intuitive portal that brings rich administration functionalities to IT systems.



For more information, please contact us.



Try GateIn 3.0 with one of these user accounts:

**Administrator**



Username: **root**  
Password: **gtn**

**Manager**



Username: **john**  
Password: **gtn**

**User**



Username: **mary**  
Password: **gtn**

**Demo**

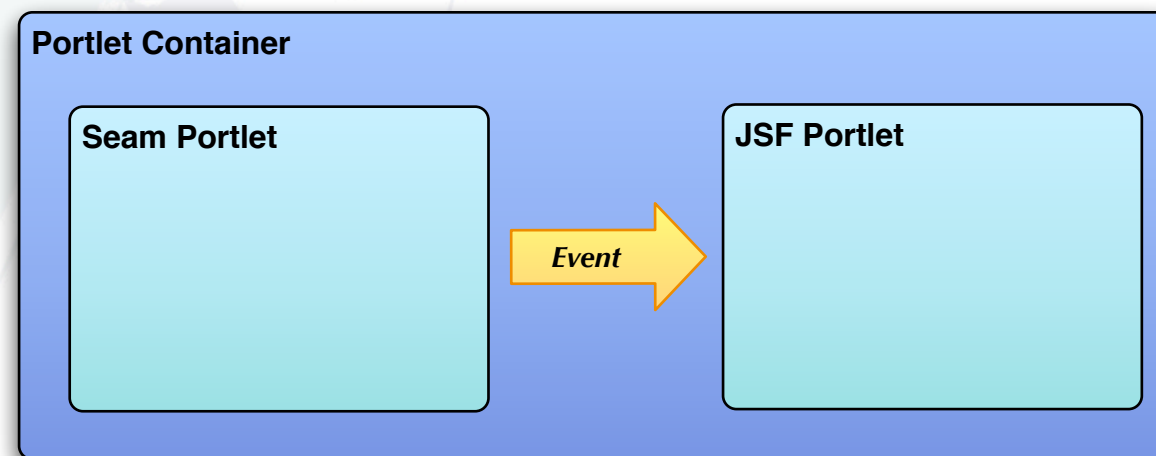


Username: **demo**  
Password: **gtn**



# Demo

## Sending Events & Parameters





Project Explorer showing the structure of the jsf12Portlet project:

- jsf12Portlet
  - src/main/java
  - src/main/resources
  - Maven Dependencies
  - JBoss 5.1 Runtime [JBos
  - JRE System Library [JVM
  - src
    - main
      - jbossportal
      - webapp
        - images
        - jsf
        - test
        - WEB-INF
        - home.xhtml
  - target
  - webapp
  - pom.xml
  - README.txt
- jsf20Portlet
- seam2Portlet
- seam2Portlet-ear
- seam2Portlet-ejb
- seam2Portlet-web

A palette is not available.

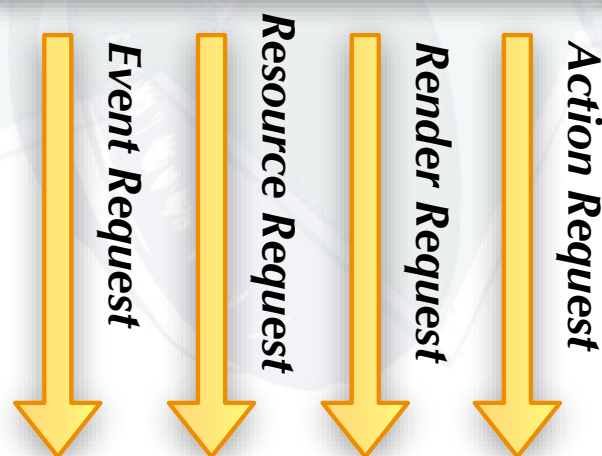
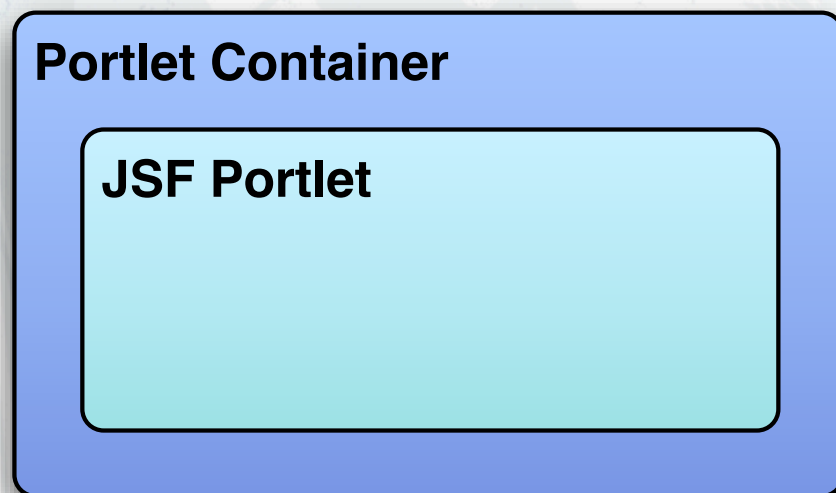
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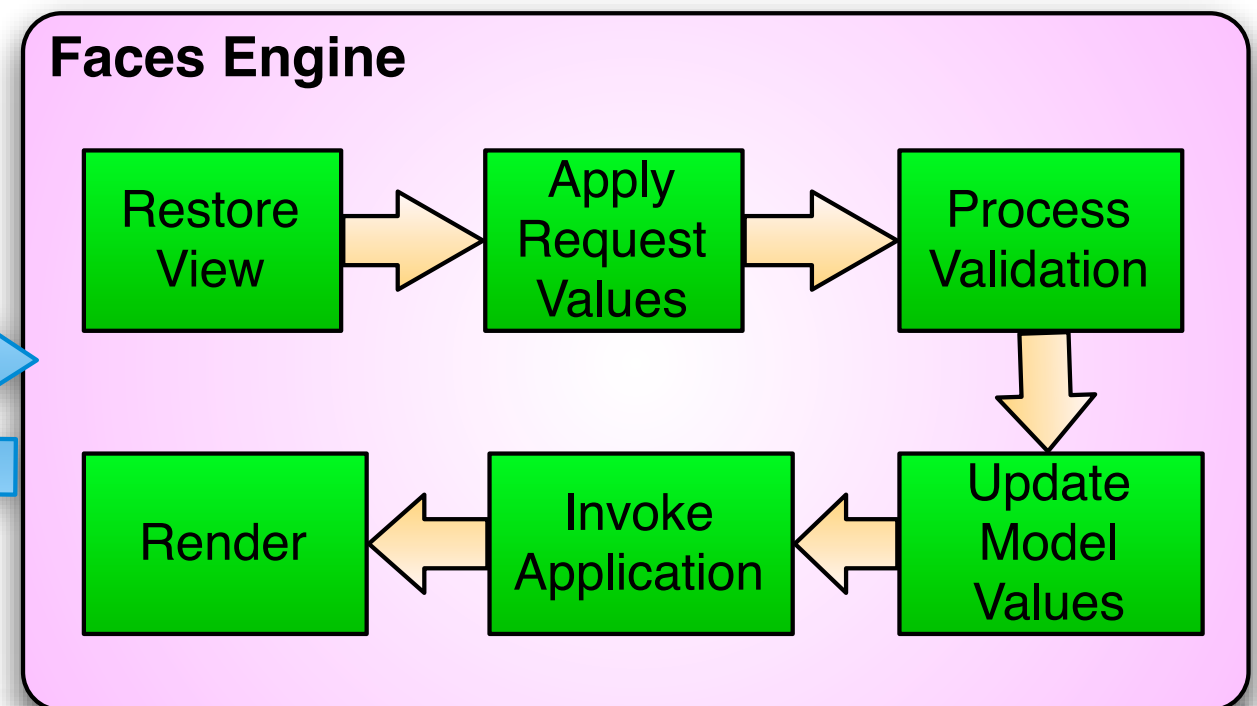
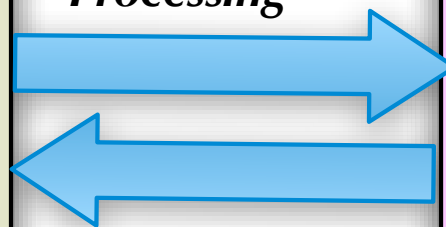
# How the Bridge Works

How the Portlet Bridge manages the Faces single request lifecycle

\*See section 5.1 of the Bridge 2.0 spec for full details



*Bridge Request Processing*





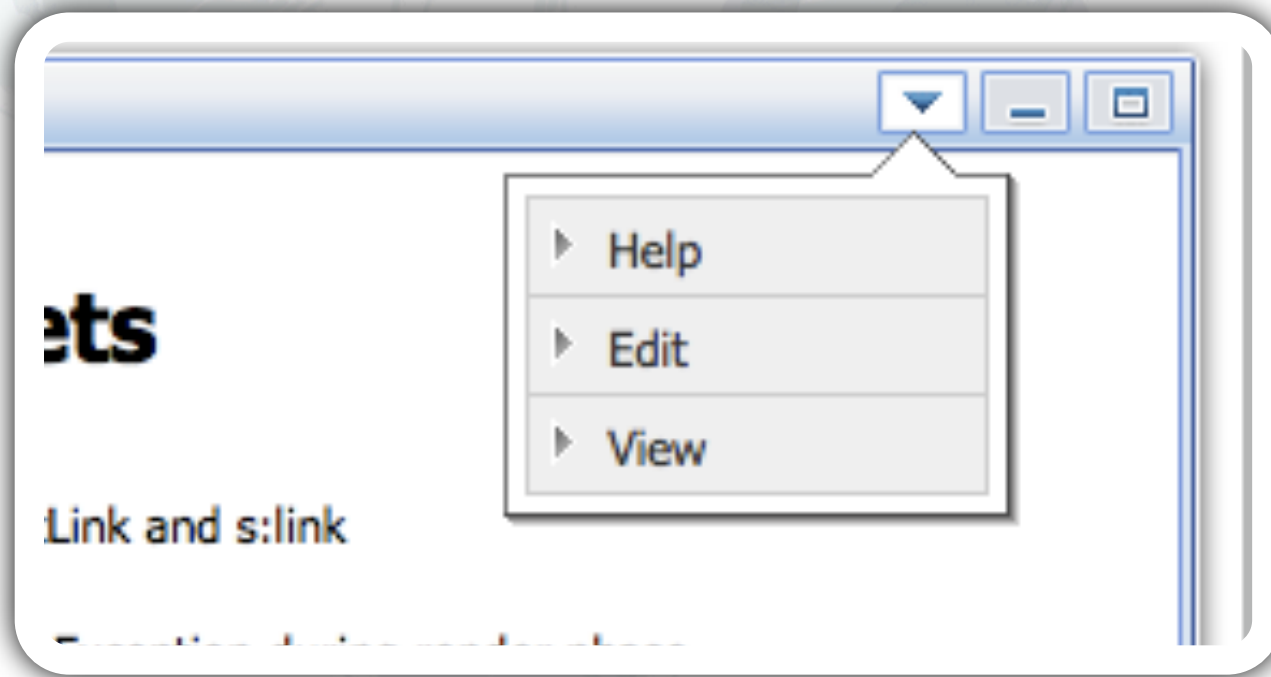
# Leveraging the Portlet API through JSF

- Manipulating portlet modes and navigation
- Checking the request/response
- Bridge provided EL variables



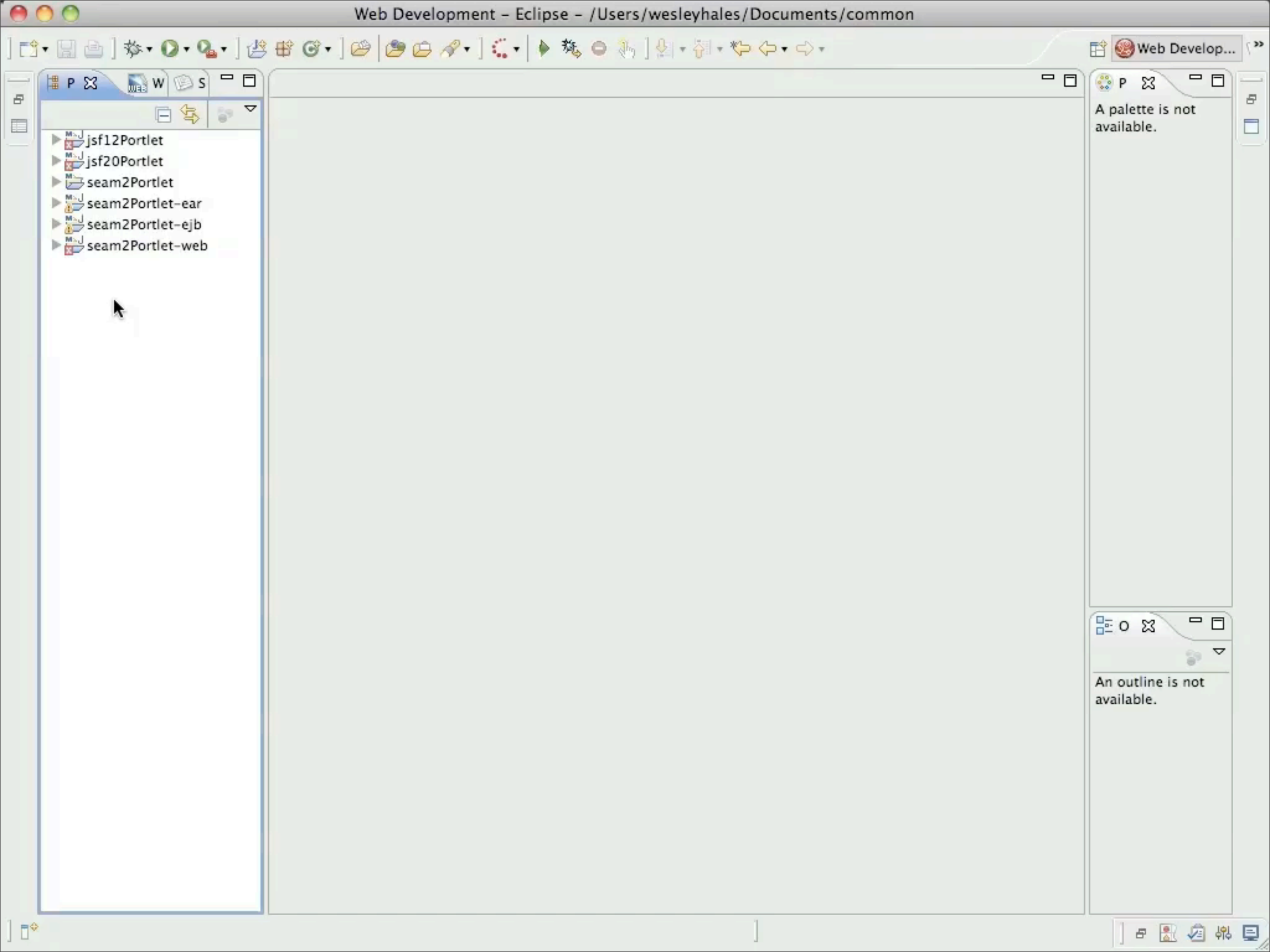


# Portlet UI



- Portlet Modes – e.g. View, Edit, Help...
- Decorations & Controls

- Configuration in the portlet.xml...





# Demo

Manipulating the UI with the  
portlet bridge

 seamPortlet

[Go to default page](#)

## View Mode Portlets

Stress test for an AJAX requests

Navigation between pages by h:outputLink and s:link

Paint image in the Seam component

Page with errors that throw ApplicationException during render phase.

RichFaces fileUpload component

Seam remoting example

AJAX push

Seam conversations

Navigation between window modes and states

Tab panel

Created with JBoss Seam 2.0, JBoss EJB 3.0, JSF 1.2, Hibernate 3 and Facelets

Done

 seamPortlet

[Go to default page](#)

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# Demo

## Checking Request/Response



seamPortlet

Go to default page

## View Mode Portlets

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Done

riPortlet

### JSF 1.2 Portlet

[Publish Parameter](#)

String:

**Gab5ed4f8\_2df47a\_2d4f6a\_2dae46\_2d287c558da3d8**

Done



# Demo

## Using Bridge EL



seamPortlet

Done

riPortlet

**JSF 1.2 Portlet**[Publish Parameter](#)

String:

**Gab5ed4f8\_2df47a\_2d4f6a\_2dae46\_2d287c558da3d8**

Forum Posts: 25

[Save Preferences](#)

Done



# Debugging

- Your JSF app runs as both a portlet and servlet in parallel
- javascript namespacing










# Seam and RichFaces specific components



RichFaces



-  RichFaces Automatic Script Wrapping
-  Seam SSO with Portal
-  Seam Sharing Beans across portlets (Application Scope annotation)



# Demo

## RichFaces 4 Running on GateIn

# How To Get Started

- Drop a portlet.xml and the bridge jars into your JSF, RF or Seam app
- ...Or use the archetypes as a guide
- Screencasts  
[vimeo.com/channels/gatein](http://vimeo.com/channels/gatein)





# Links

- <http://jboss.org/portletbridge>
- <http://vimeo.com/wesleyhales/videos>
- <http://jboss.org/gatein>

# Questions

