



java.com.sun/javaone

Plug Your JavaServer Faces Application into the GlassFish v3 Admin Console

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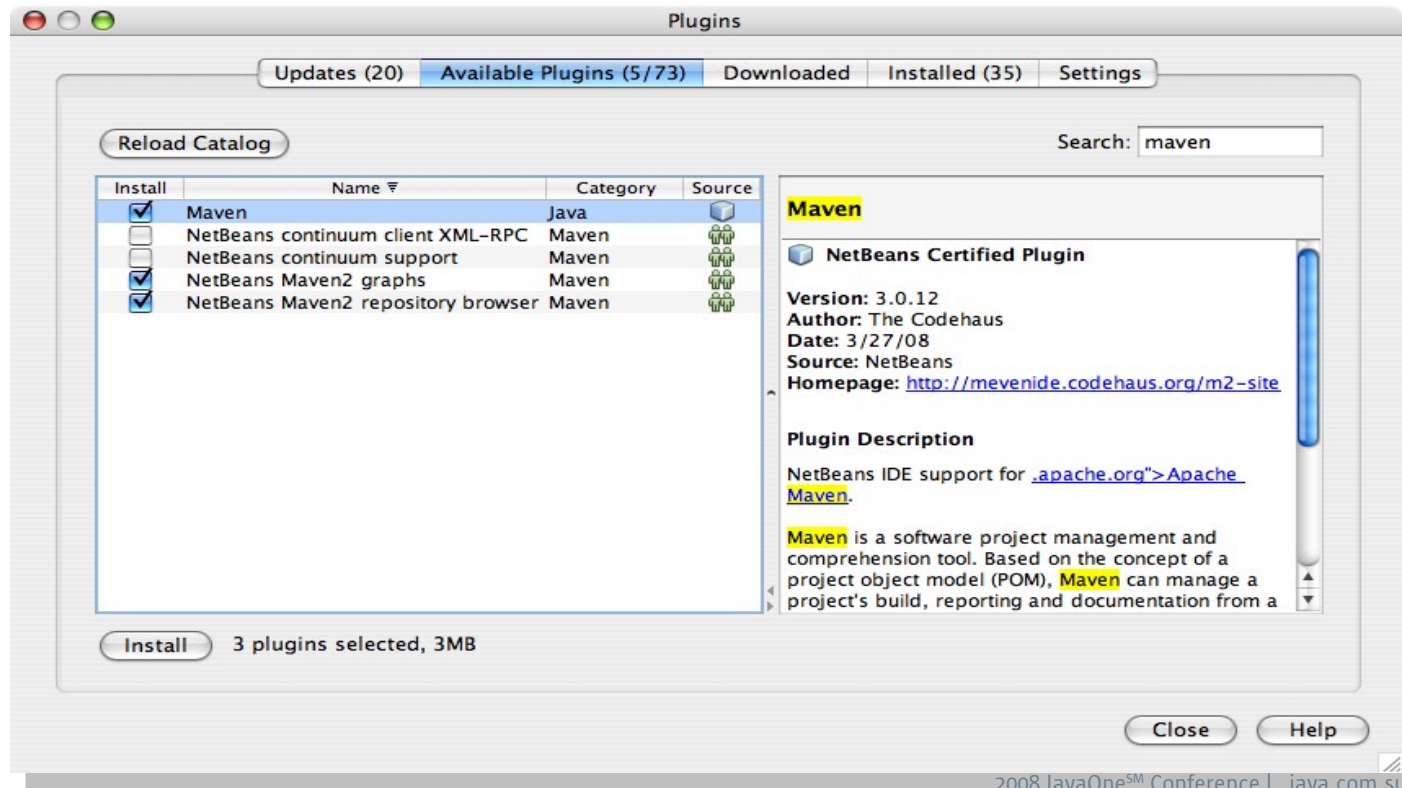


Agenda

- **Lab Setup**
- Introduction
- Plugging into GlassFish
- Charting with jMaki
- Templating your Plugin
- Q & A

Lab Setup

- Unzip 4520_gfplugin.zip
- Install Maven 2
- Configure NetBeans (optional)



Lab Files



gfplugin/



index.html



myplugin/



solution/



glassfish/

Lab Root

Lab Files



gfplugin/



index.html



myplugin/



solution/



glassfish/

Lab Instructions

Lab Files



gfplugin/



index.html



myplugin/



solution/



glassfish/



Lab Files



gfplugin/



index.html



myplugin/



solution/



glassfish/



Lab Files



gfplugin/



index.html



myplugin/



solution/



glassfish/

GlassFish Application
Server

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What Is GlassFish?

- A Java EE 5 compliant Application Server
 - Can run J2EE applications too
- Enterprise Quality
 - Sun Java System Application Server 9.x
 - Use it in production!
- Open Source
 - CDDL (like OpenSolaris, NetBeans)
 - GPLv2 (like Java and NetBeans)
 - Use it in production!

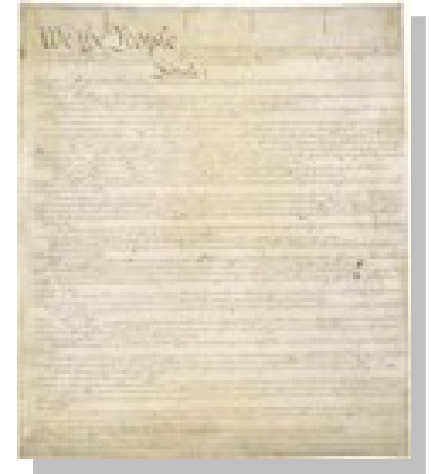


What Is GlassFish? (Cont.)

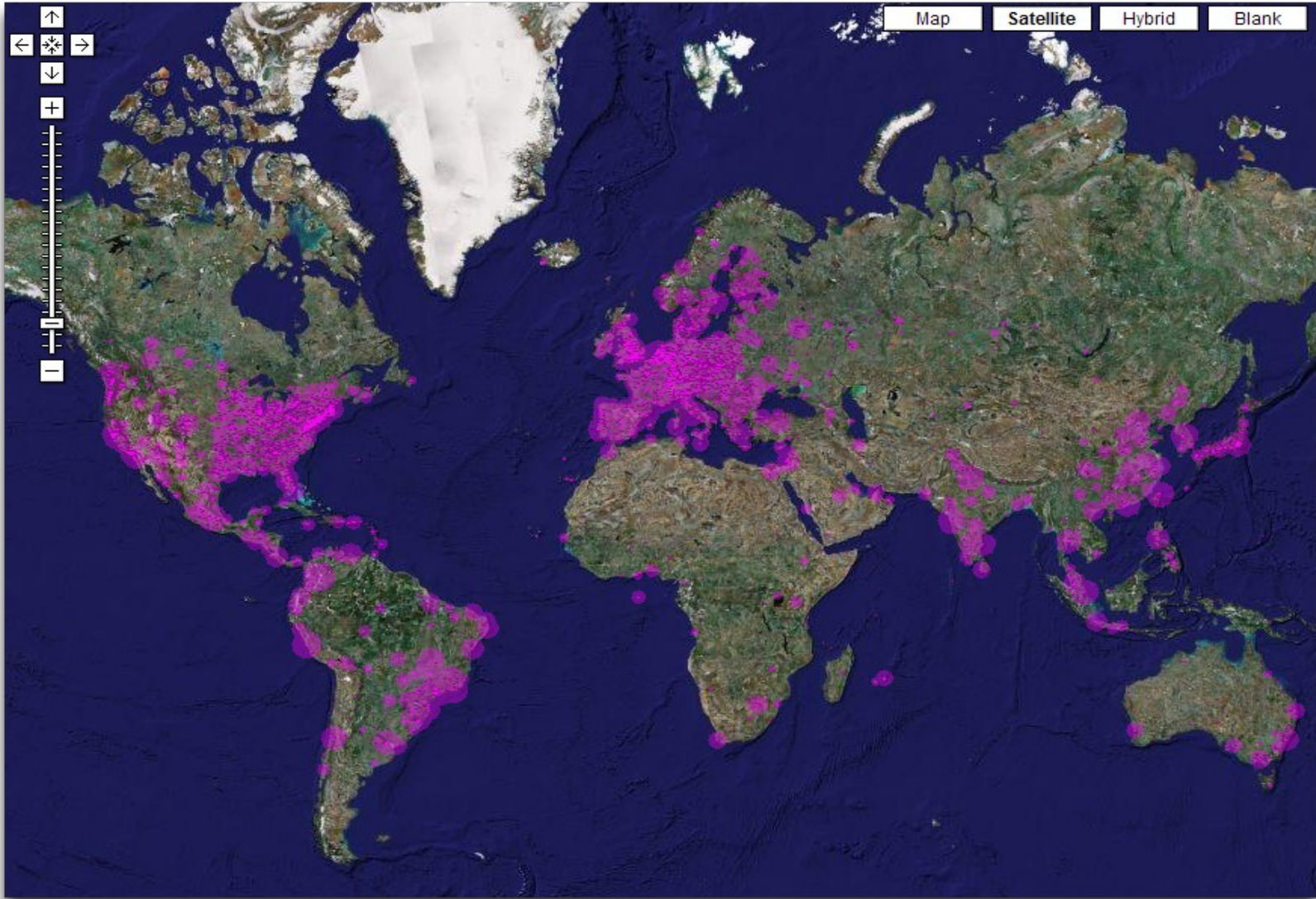
> Community Awards Program

- \$1M to reward contribution to Open Source projects
- GlassFish one of 6 communities to award \$175k
- More at <http://glassfish.org/GAP>

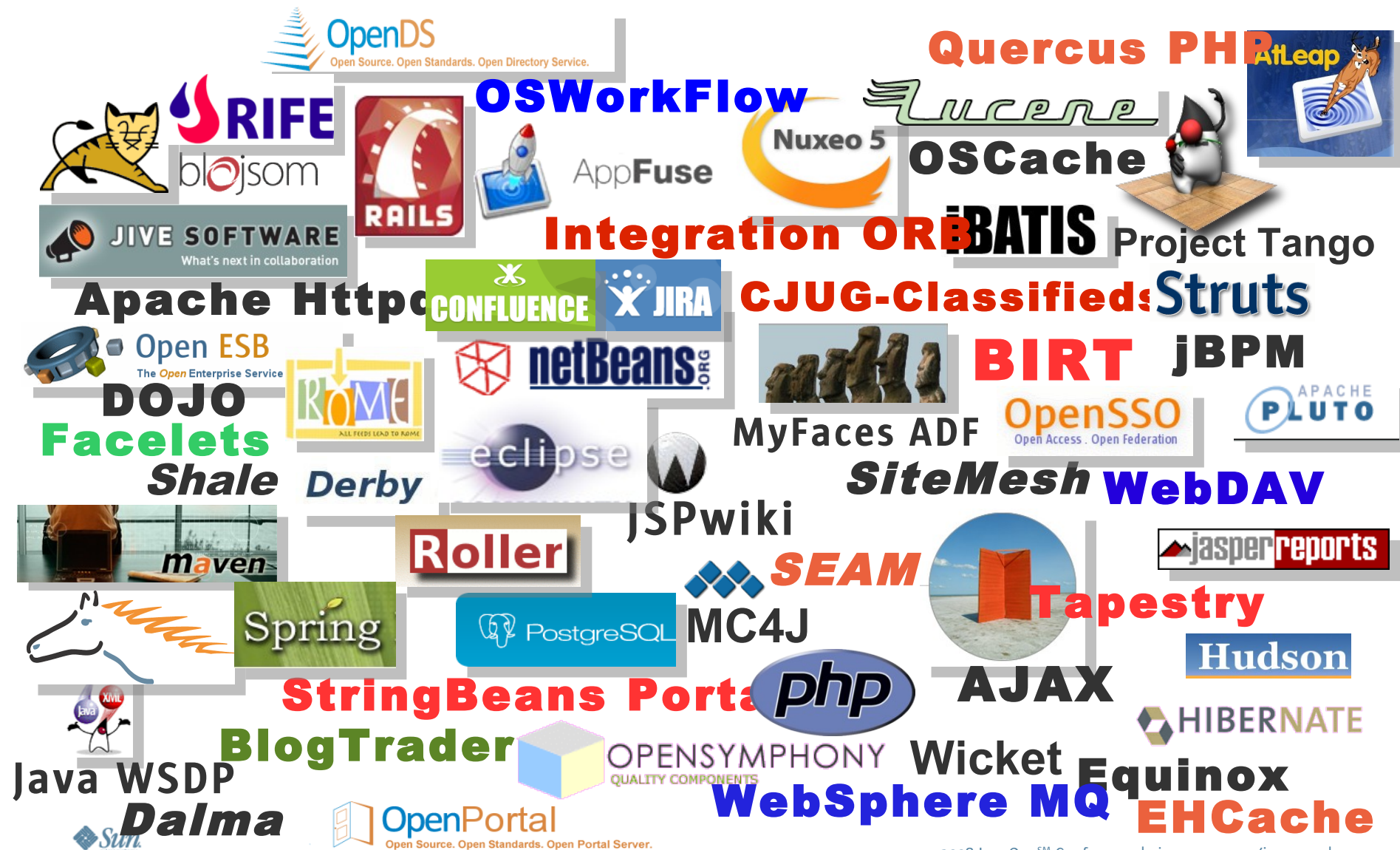
> TBD: Change picture... award ribbon?



GlassFish around you



Frameworks and Applications

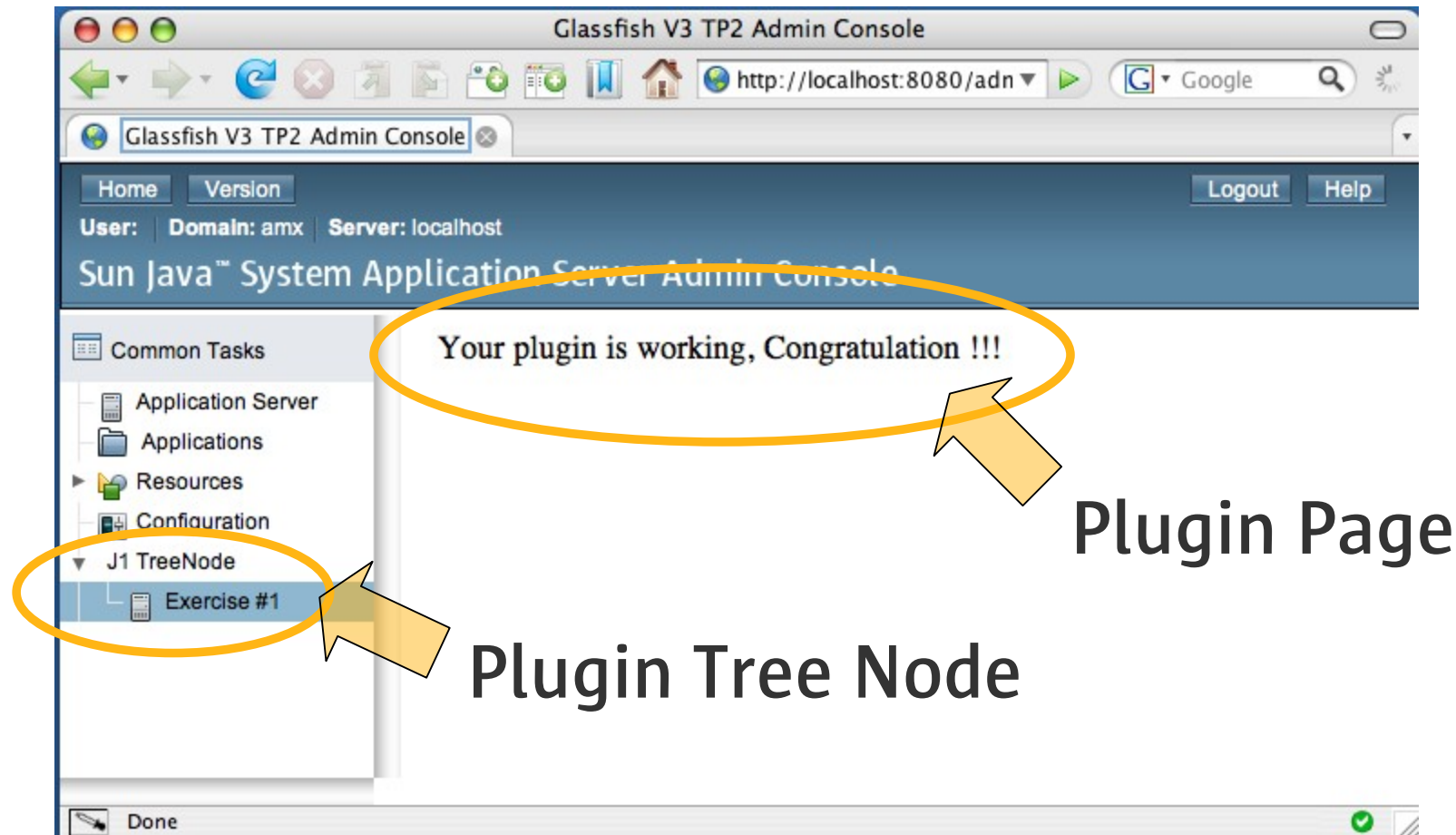


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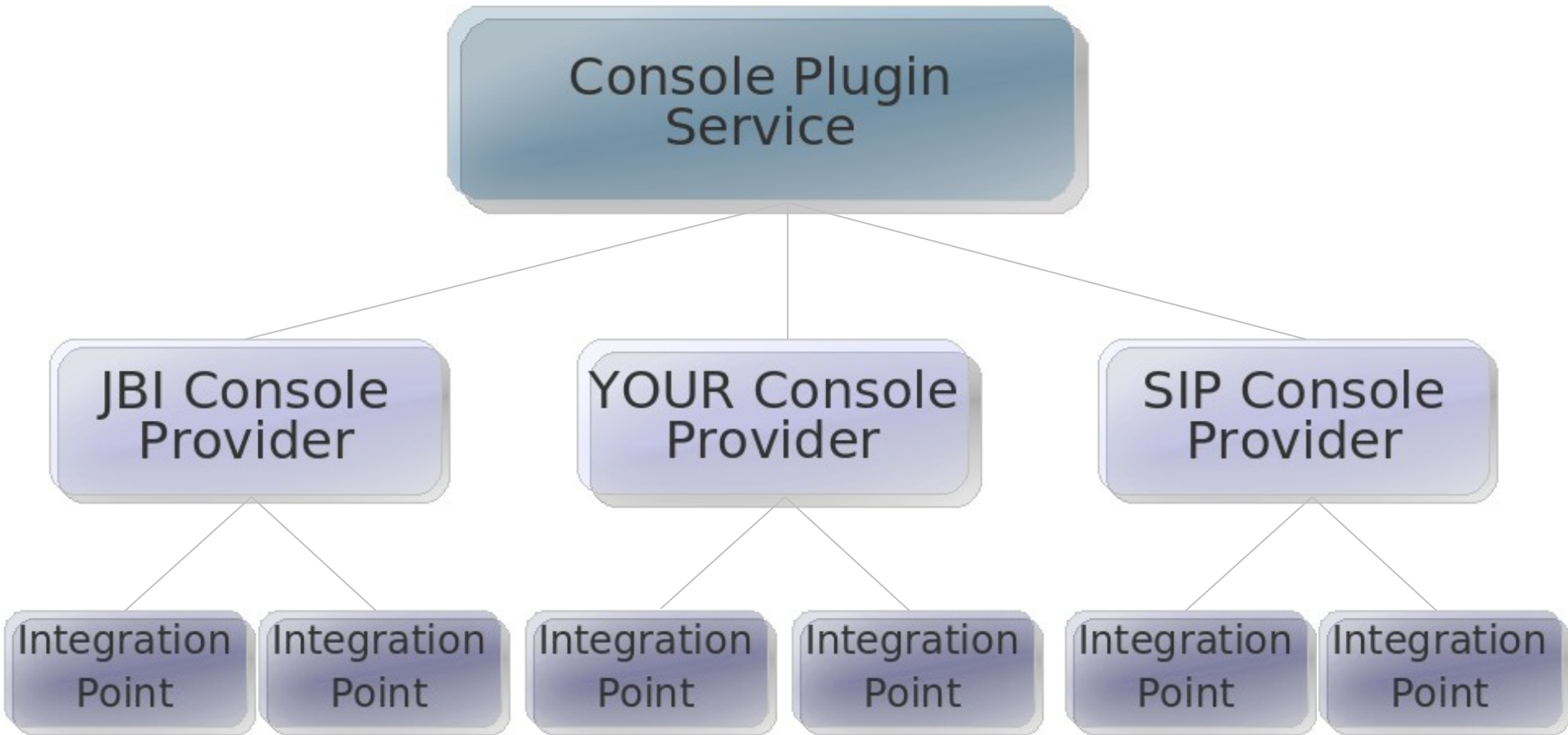
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Plugging into GlassFish



Plugin Design



Console Provider

- Marker for HK2
- Provides console-config.xml URL
- Default: META-INF/admingui/console-config.xml

```
@Service
public class JavaOnePlugin implements
    ConsoleProvider {
    public URL getConfiguration() {
        return null;
    }
}
```

Integration Points

- Defined inside console-config.xml:

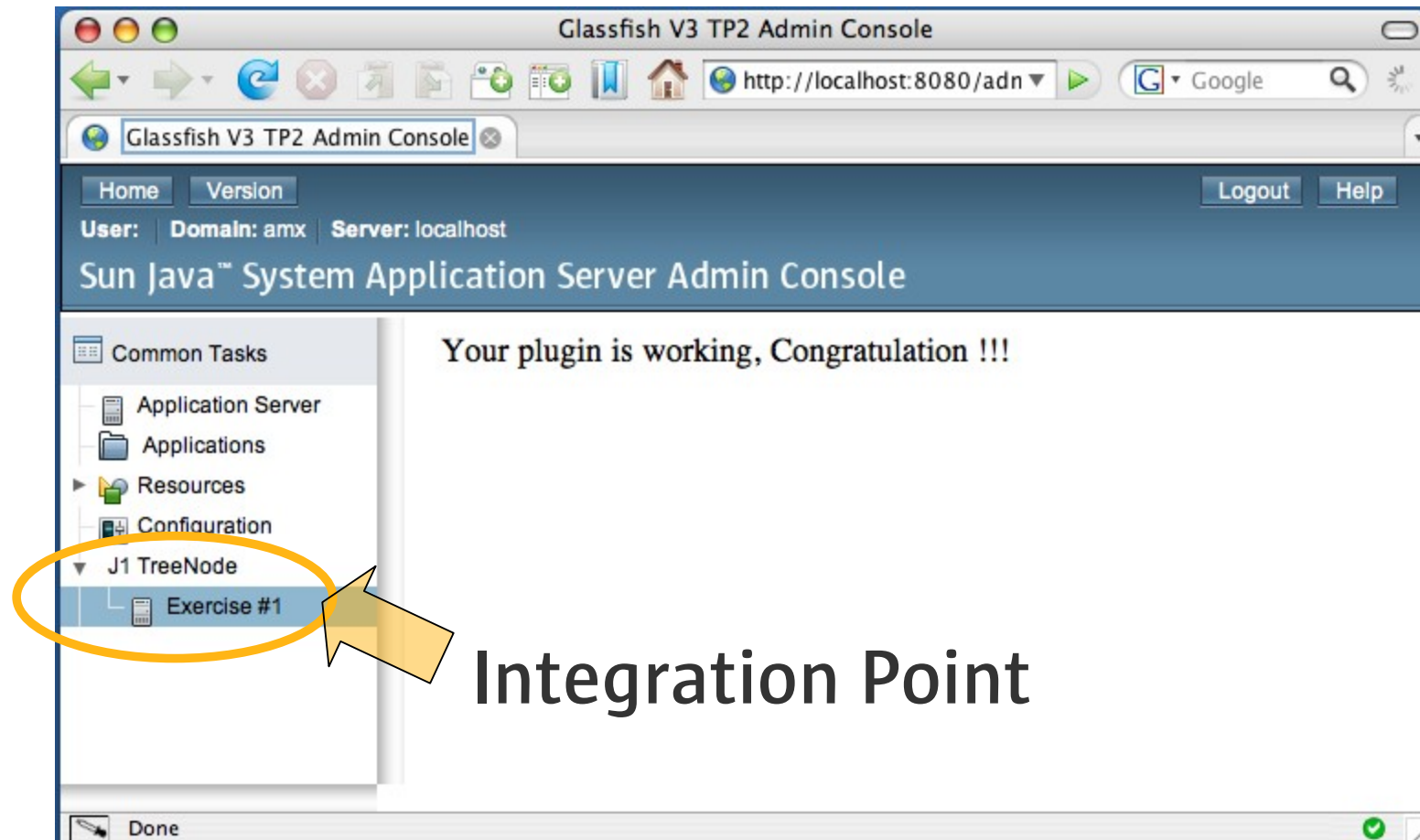
```
<?xml version="1.0" encoding="UTF-8"?>
<console-config id="javaone">
  <integration-point
    id="JavaOneNode"
    type="tree"
    priority="210"
    parentId="tree"
    content="treenode-ex1.jsf" />
</console-config>
```

The Tree Node

- IntegrationPoint “content” refers to JSFTemplating page fragment:

```
<sun:treeNode
  id="first"
  text="Exercise #1"
  url="javaone/hello.jsf"
  imageURL=
    "resource/images/instance.gif"
  target="main" />
```

Plugging into GlassFish



Lab Exercise #1

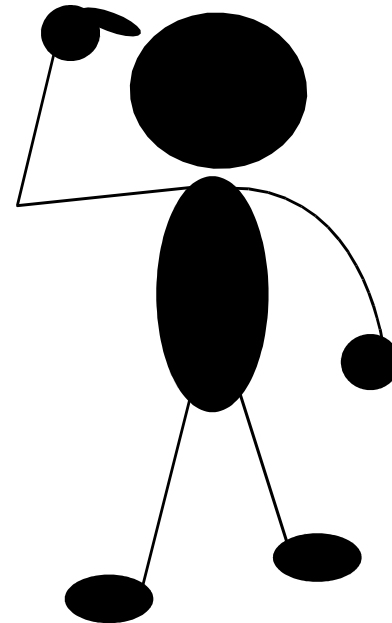
Create your first GlassFish plugin

A large, light blue arrow pointing to the right, positioned behind the word "DEMO".

DEMO

Plugging into GlassFish

- Lab Time!
- Estimated Working Time: 45 min



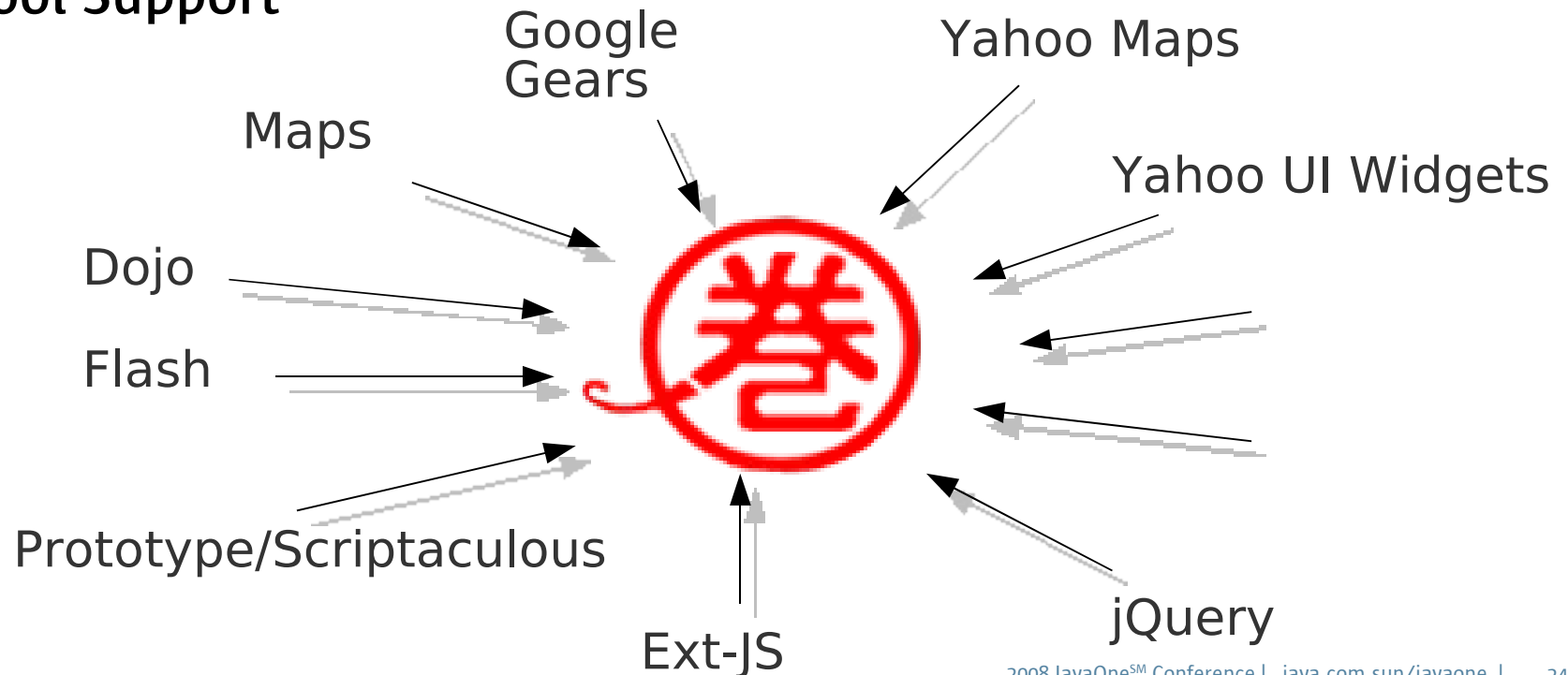
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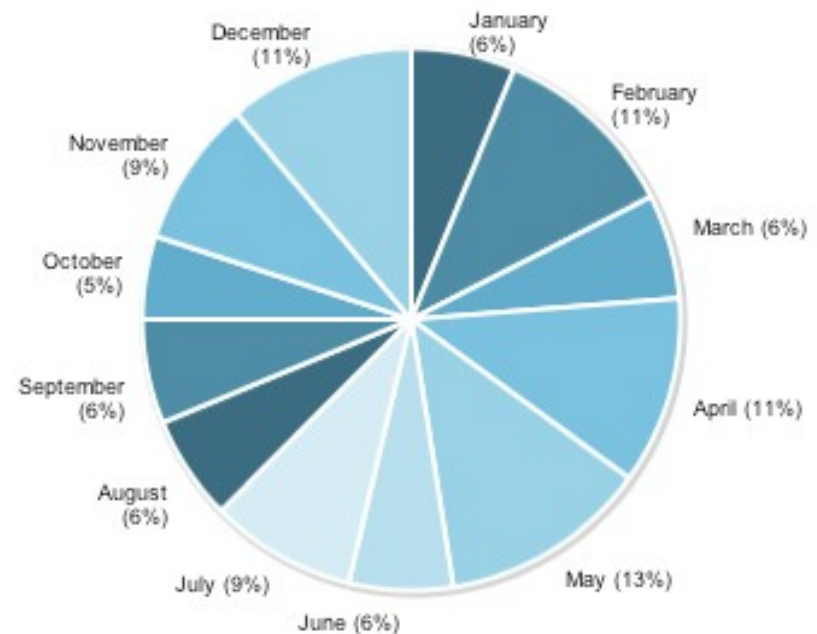
What is jMaki?

- Lightweight Open Source Framework
- Integrates best of breed JavaScript technology
- Server-side support for Java, PHP, Ruby, JavaScript
- Standard Event / Data Model
- Tool Support

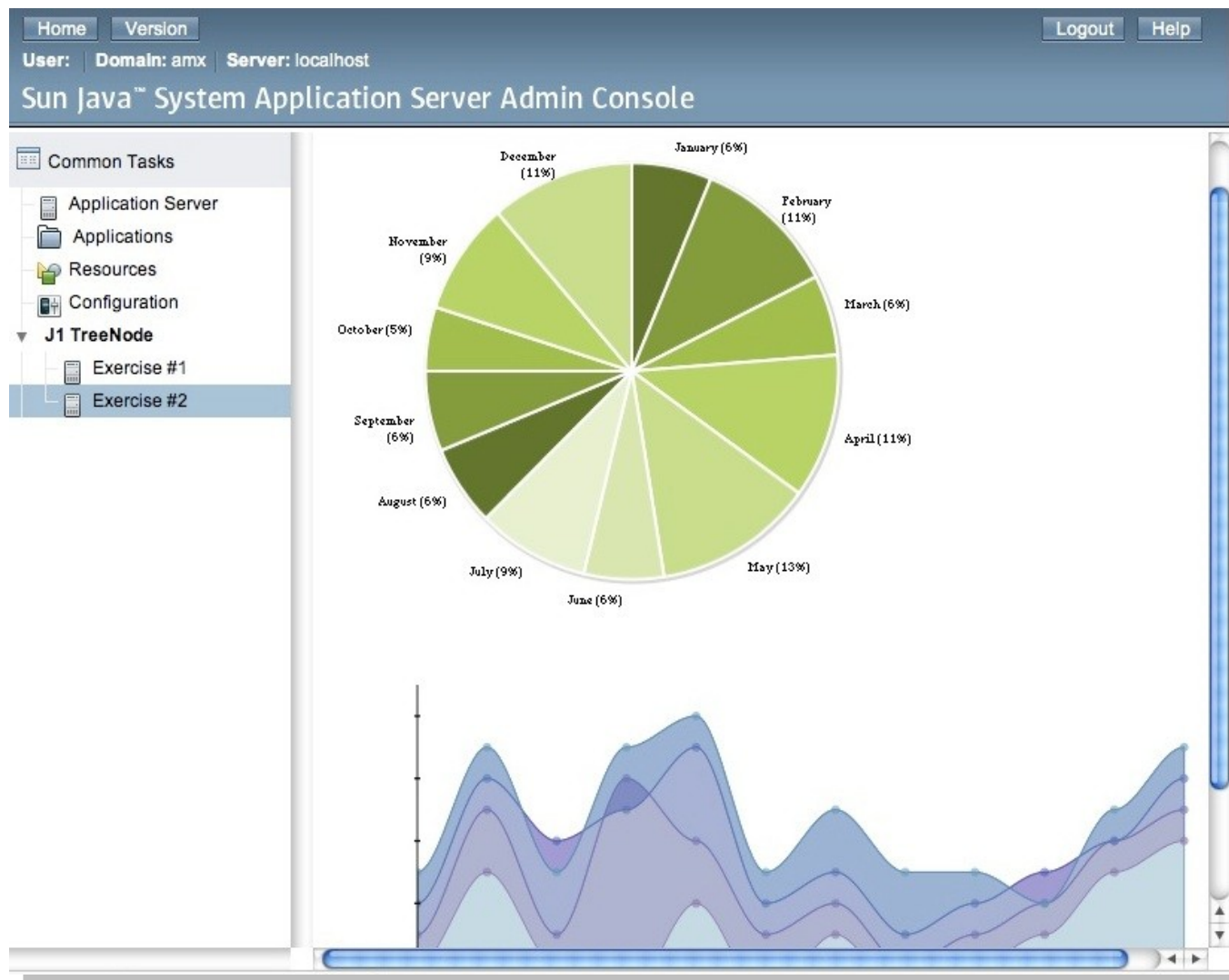


Charting with jMaki

- Abstraction for a Charting Data Model
- Multiple Charting Frameworks to Render Charts
 - Yahoo!
 - Dojo
 - Google
 - Plotkit
- Works with jMaki Publish / Subscribe Event Model
- Lowers the effort required for Charting
- Supports:
 - Area Charts
 - Line Charts
 - Pie Charts
 - Bar Charts



Charting with jMaki



Lab Exercise #2

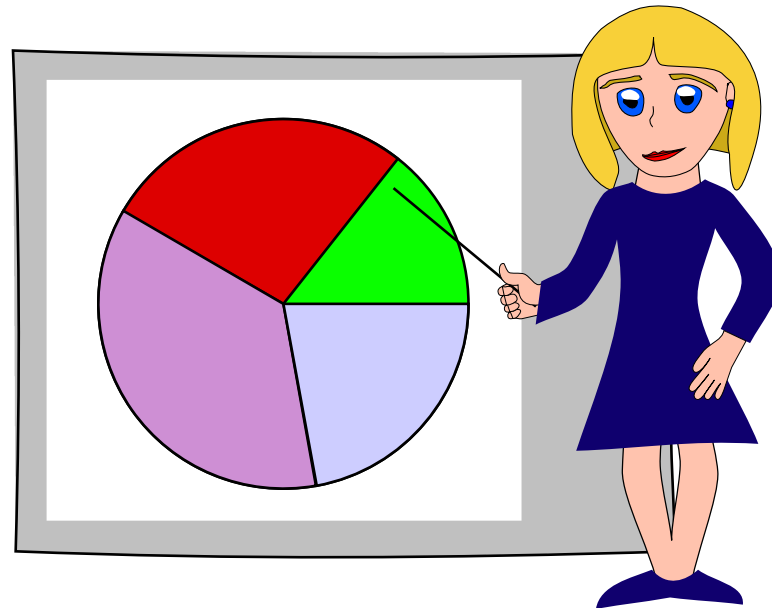
Charting with jMaki

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DEMO

Charting with jMaki

➤ Exercise length – 25 minutes



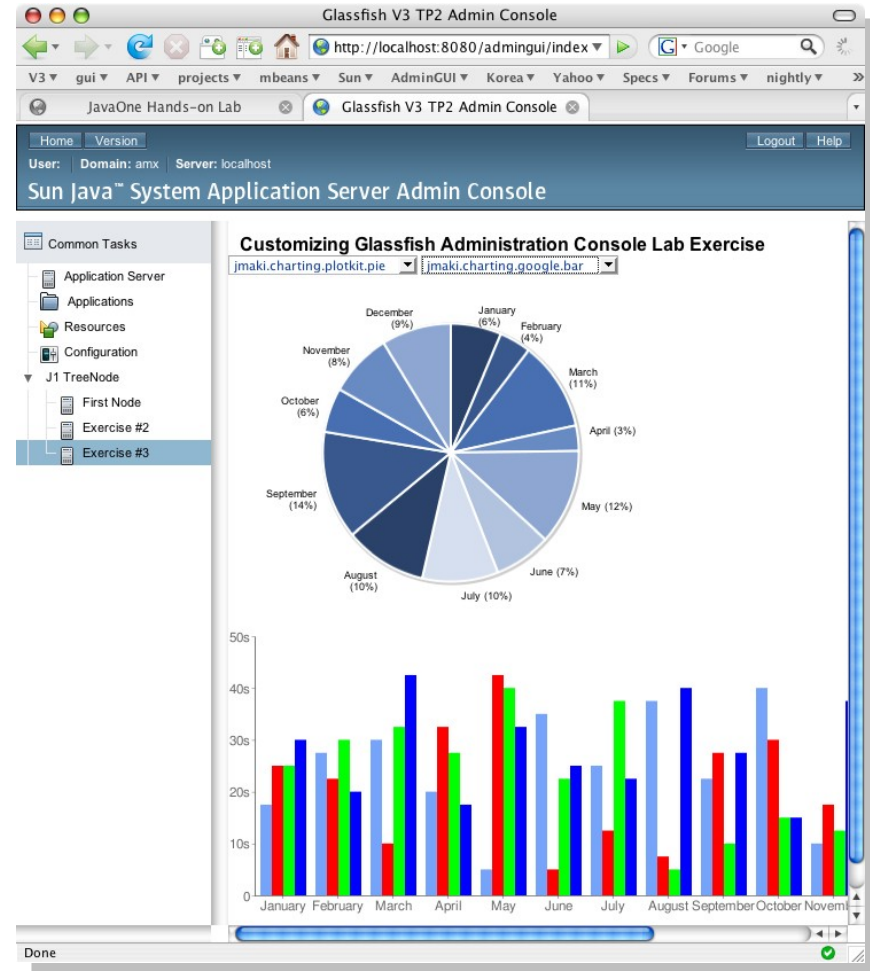
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Templating your Plugin

- Templating in JavaServer Faces
- Template Example



Templating in JavaServer Faces

```
<sun:page>
<!--beforeCreate
    setResourceBundle(key="i18n" bundle="core.Strings")
    setResourceBundle(key="help" bundle="core.Helplinks")
-->
#include "/shared/restart.inc"
<sun:html>
    <!--insert name="head">
        <sun:head title="Default Title" />
    </insert>
    <sun:body onLoad="synchRestartRequired('{restartRequired}')">
    <sun:body>
        <sun:form id="form">
#include "/treeBreadcrumbs.inc"
        <!--insert name="pageTitle">
            <sun:title title="Default Page Title" />
        </insert>
        <!--insert name="content">
            "Content Goes Here
        </insert>
        <!--insert name="helpkey" />
    </sun:form>
    </sun:body>
</sun:html>
</sun:page>
~
~
baseTemplate.xhtml
```


Lab Exercise #3

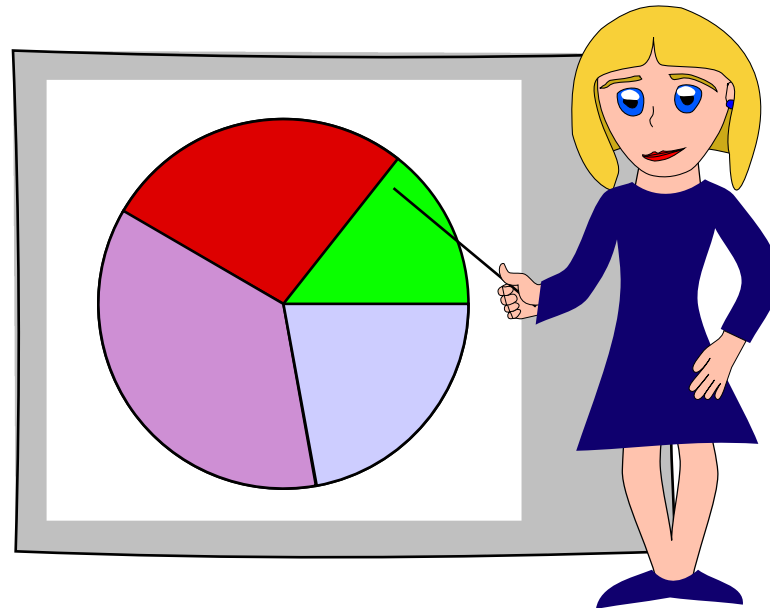
Templating Your Plugin

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DEMO

Templating in JavaServer Faces

- Exercise length – 25 minutes
- Tip: Try different chart types



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Summary

- GlassFish v3
- GlassFish Administration Console Plugin
- jMaki
- JSFTemplating
- Get Involved!



References

- <https://jsftemplating.dev.java.net>
- <https://glassfish.dev.java.net>
- <https://jmaki-charting.dev.java.net>
- <https://ajax.dev.java.net>
- <https://woodstock.dev.java.net>

**All Open Source
Get Involved!**

Q & A



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