



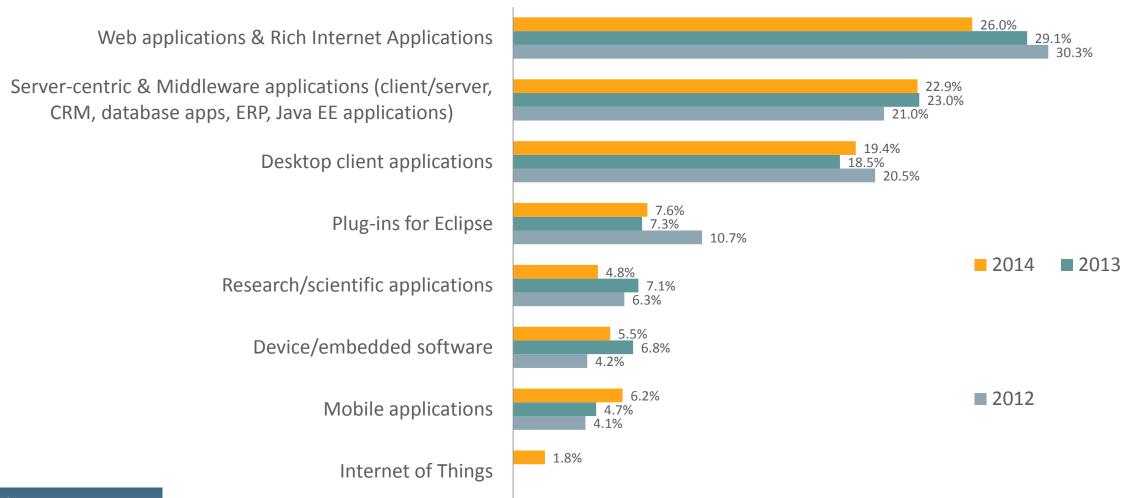
Program Agenda

- 1 The Eclipse Ecosystem
- Getting the right tools
- JEE Spec Support in Eclipse
- 4 Demo



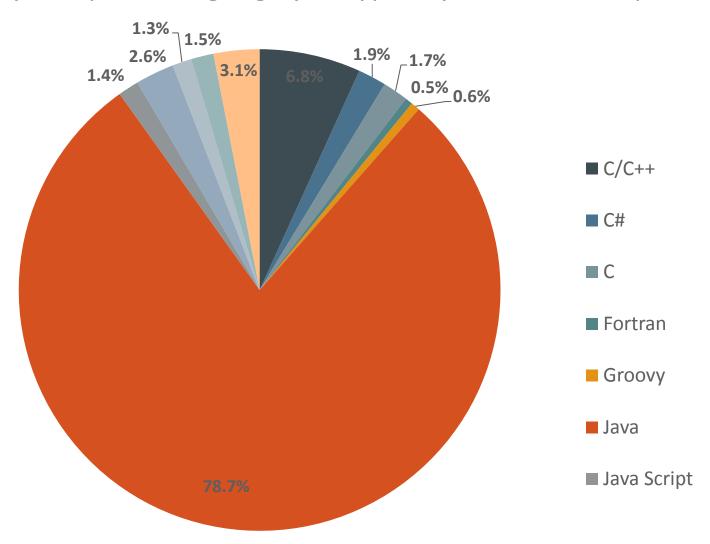
Eclipse Members Survey 2014

What is the primary type of software you are personally involved in developing?



Eclipse Members Survey 2014

What is the primary computer language you typically use to develop software?





Constructing a Java EE Dev Environment



There's a plugin for that!

Package Solutions



Eclipse IDE for Java EE Developers, 254 MB

Downloaded 101,566 Times

Tools for Java developers creating Java EE and Web applications, including a Java IDE, tools for Java EE, JPA, JSF, Mylyn...



Eclipse IDE for Java Developers, 154 MB

Downloaded 55,041 Times

The essential tools for any Java developer, including a Java IDE, a CVS client, Git client, XML Editor, Mylyn, Maven integration...



Eclipse IDE for C/C++ Developers, 164 MB

Downloaded 20,372 Times

An IDE for C/C++ developers with Mylyn integration.



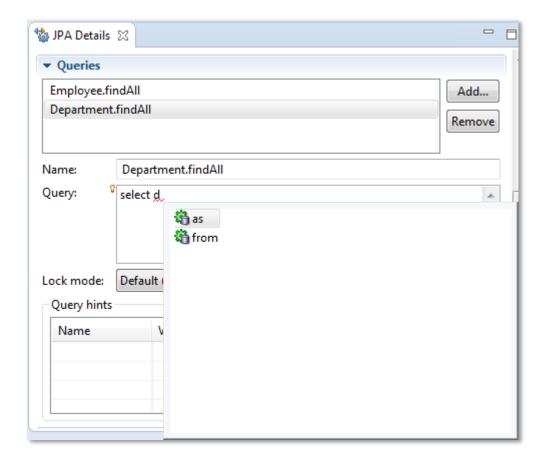
Java EE Spec Review

- Java Persistence
- Enterprise Java Beans
- JavaServer Faces
- Web Services



Java Persistence Dali Java Persistence Tools

- Creating a data model
 - Top down
 - Bottom Up
- Configuration (persistence.xml)
- JPQL Querying
 - In Annotation content assist
 - JPA Details View





Java Persistence EclipseLink Runtime

- Eclipse Runtime Project
- Reference Implementation for JPA
- More than just JPA
 - EclipseLink JPA: Object Relational Mapping
 - EclipseLink SDO: Service Data Objects
 - EclipseLink MOXy: Object to XML Mapping
 - EclispeLink DbWS: Database Web Services
 - EclipseLink NOSQL





Enterprise Java Beans

- EJB $1.0 \rightarrow 3.1$
- Message Drive Bean
 - Queue | Topic
- Session Bean
 - Stateless | Stateful | Singleton
 - Local and Remote Interfaces
 - Façade generation patterns



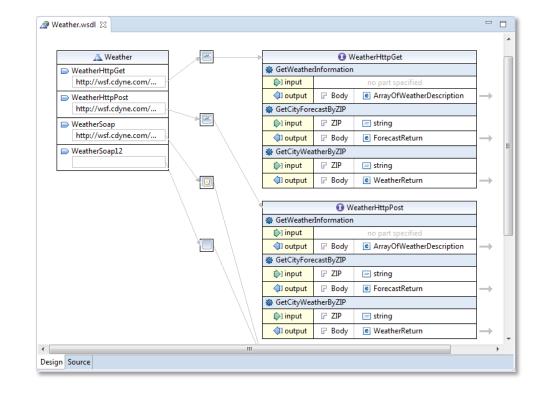
JavaServer Faces

- Library Management
- Configuration Editors (faces-config.xml)
- JSF Navigation Designer
- JSF Component Gallery
 - Drag and Drop Patterns
 - Palette
- Property Sheet
- Content assist and Validation
- CDI Support



Web Services

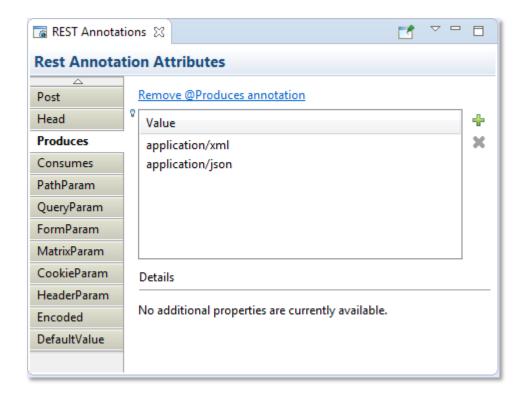
- Start from Java Web Service
- Start from WSDL
- Create Web Service Client
- Web Service Security (WS-Policy)
- WSDL Editor
- Web Service Property Sheet
- JAX B Type Generation
- JAW-WS Bindings





Web Services JAX-RS

- REST Web Service Creation
- REST Creation Patterns
 - Simple
 - Container-Item
 - Client-Controlled Container Item
 - Entity Access Façade
- REST Property Sheet
- Run As > Test Client





Where to Deploy?

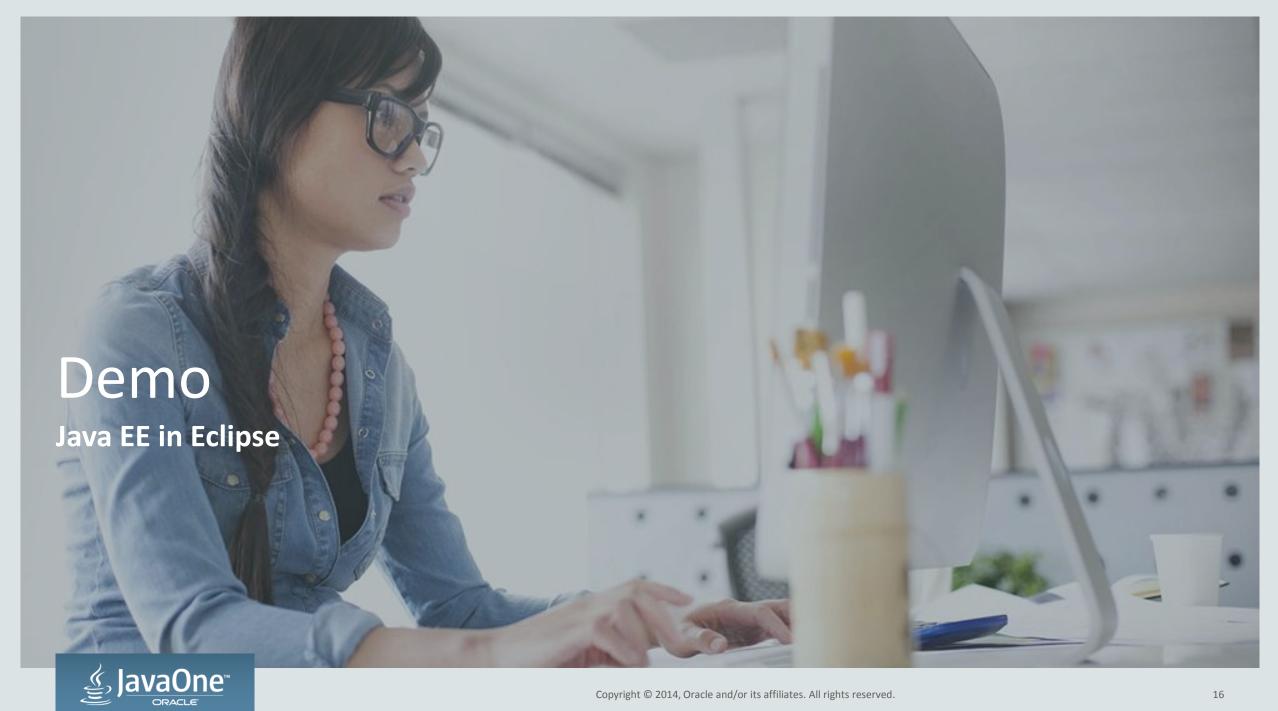
- Every Java application server has an Eclipse plugin
- Eclipse Marketplace
- Discover New Server Adapter
- Common Use Cases
 - Run, Deploy, Debug
 - Local and Remote Servers



Database Tools

- Eclipse Data Tools Platform (DTP)
- Generic Adapters for most Databases
- Vendor-provided plugins
- Common Use Cases
 - Connect to Database
 - Browse Schemas
 - Query and View Data





Summary

- Eclipse provides the platform and ecosystem for Java EE
- Pick the toolset that works for you (often based on deployment)
- Eclipse Foundation and Java are coordinating more and more
 - Java EE 7 Launch
 - Java 8 Launch at EclipseCon 2014!



Additional Resources

- eclipse.org
- marketplace.eclipse.org
- Oracle Enterprise Pack for Eclipse oracle.com/goto/oepe
- Java EE Tutorials and code samples on Oracle Technology Network (OTN)



Additional Sessions

Title	Time	Location
Java Development in the Cloud [CON1840]	Wed 11:30	Hilton - Continental Ballroom 6
Getting Started with Oracle Mobile Application Development on Eclipse [CON6985]	Thu 9:30	Moscone West - 3018





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