



Drinking the Kool-Aid

My Journey To Becoming an ADF Believer

Rob Nocera, NEOS & Vgo Software

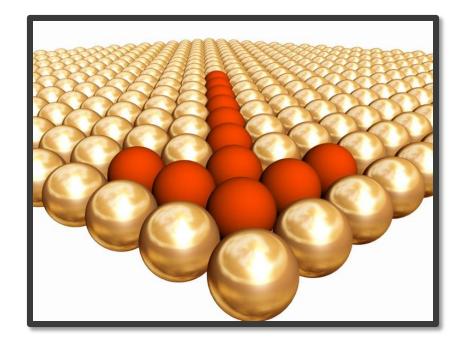
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Who am I?

- Founding Partner NEOS, Vgo Software
 - Modernization Companies
 - NEOS Business Consulting / Industry Focus
 - Vgo Technology Modernization
- Java Programmer
- ADF Believer

The beginning of my journey

- IT Department
 - Forms 4.5
 - DBA Work
 - C / Pro*C
 - Shell Scripting
- First Taste of Automation
- Shell Scripts





A little farther down the road

- Paradox Database Application
- SmallTalk
 - Introduction to Object Oriented Programming
 - Developed 2 Systems
- First Introduction to Java
 - No Frameworks
 - Swing



Even farther...

- Larger Company
- Research and Development
 - More Oracle Forms
 - Lots more Java
 - Weblogic Server
 - Integration with Forms
 - In the Database







Farther still...

- Internet Startup
 - Streaming Media Company (1999)
- Senior Engineer
 - Website Logic
 - Java Template-base Framework
 - Oracle DB
 - Streaming Media Menu
 - Java Template-based Framework (Velocity)
 - Oracle DB
 - Integration with Flash
 - Visual Basic





Founding NEOS

- Founded NEOS as consulting company
- Modernization Projects
 - Oracle Forms
 - Powerbuilder
- Common Output
 - Java-based frameworks
 - Struts
 - JSF





And continued the journey to modernization

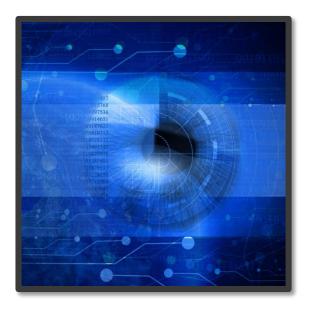
- Founded Vgo Software
 - Java-based Tools
 - Velocity
 - Swing
 - JSF
 - First Glimpse of ADF
 - ADFT
 - Conversion Project





First glimpse at ADF

- ADFT
 - Telnet plug-in for ADF
 - JSF Tags
 - Not in production
- Comfortable with Java/JSF
 - Used Tags
 - Java/JSF back-end
 - Implemented our own persistence
 - Implemented supporting classes





First impression of ADF

- Did not use JDeveloper
- Did not use BC4J (ADF Business Components)
- Worked with an incomplete project
- Lack of control
- Some Bugs
- Java Expert ADF Newbie



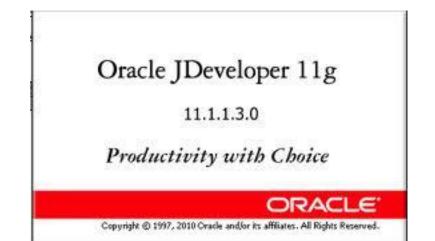


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Second impression of ADF

- ISV Client
 - Oracle Forms -> ADF
 - Current Team Fluent in Forms
 - Clients pushing for Web interface
- ADF 11g Technical Previews
 - Hired an Expert
 - Used JDeveloper
 - Used full framework
 - ADF Rich Faces
 - ADF Business Components





ADF dislikes

- Abstractions
 - ADF built on JSF built on J2EE
 - Black Box
 - Loss of Control
 - Difficult to debug
- Difficult Error Messages
- Little Opportunity to Code
 - Where does the code go?



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Wait there are more dislikes

- Lack of Compile-time Error Checking
 - More time to find bugs
- Difficult to Debug
 - Can't debug an XML file
 - Data stored in more complex structures
- Lack of Documentation
 - No docs on XML formats
 - Included help unfinished
 - No Books







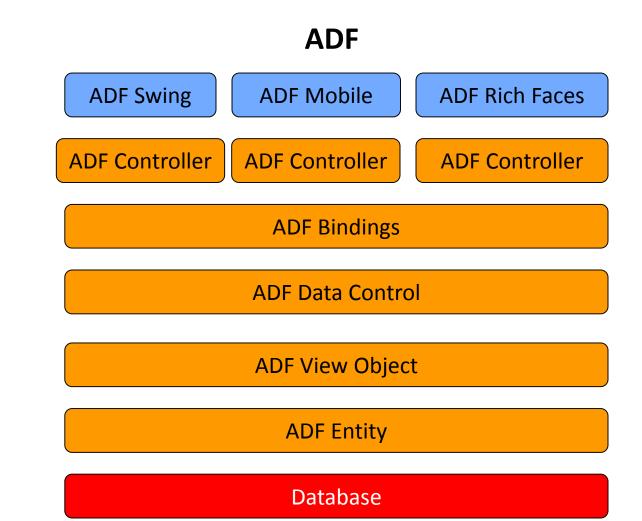
Starting to believe in ADF

- Work with the Framework, not Against It
 - Using JDeveloper
 - Using ADF Business Components
 - Wizards, Wizards, Wizards





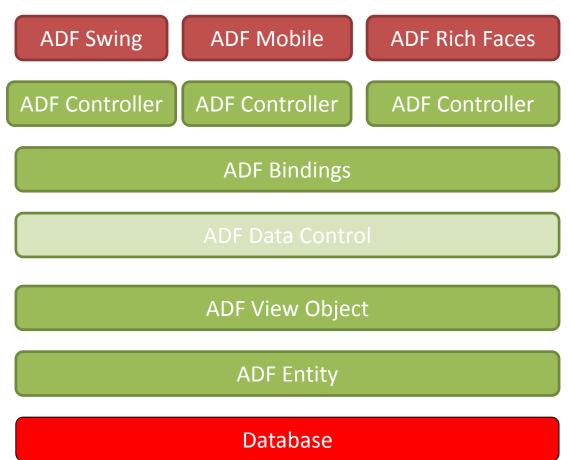
Structure of an ADF Application





What JDeveloper Does







Wizards of ADF – Business Components

- Business Components Wizard
 - Use it to create the entire persistence layer
 - Caching included

🍐 Create Business Con	nponents from Tables - Step 1 of 6
Entity Objects	0101010101010101010101010101010
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Help	< Back Next > Finish Cancel

Wizards of ADF – Application Module

- Application Module Wizard
 - Expose Business Components to the View Controller

<u>ه</u> د	reate Application M	odule - Step 2 of 5								
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Wizards of ADF – View Controller

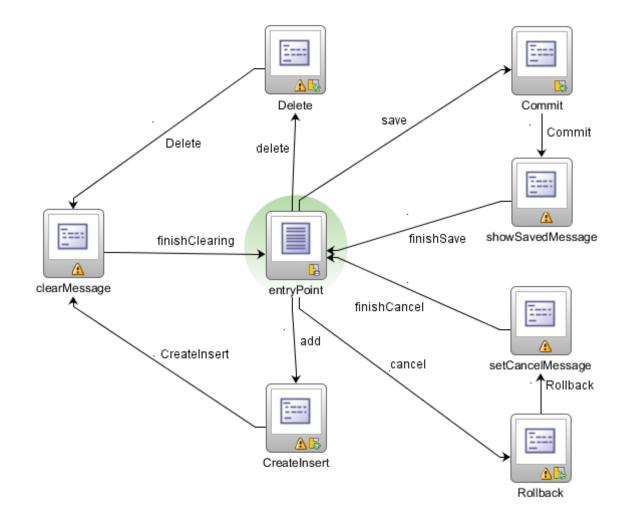
JSF Page Wizards

è Component Gallery	reference a <u>Page Template</u> to include its content in this page, or apply a <u>Quick</u> Start Lavout to add and configure an initial set of lavout components.
Categories Types	File Name: EmployeeMain.jsp Directory: C:\JDeveloper\mywork\LOVDemo\ViewController\public_html Browse Create as XML Document (*.jspx) Render in Mobile Device
Two Column Three Column	Initial Page Layout and Content Blank Page Page Template Oracle Three Column Layout Quick Start Layout Quick Start Layout Page Implementation (UI components are not exposed in managed bean) Help OK Cancel
Help	OK Cancel

🍅 Create JSF Page

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ADF Task Flows





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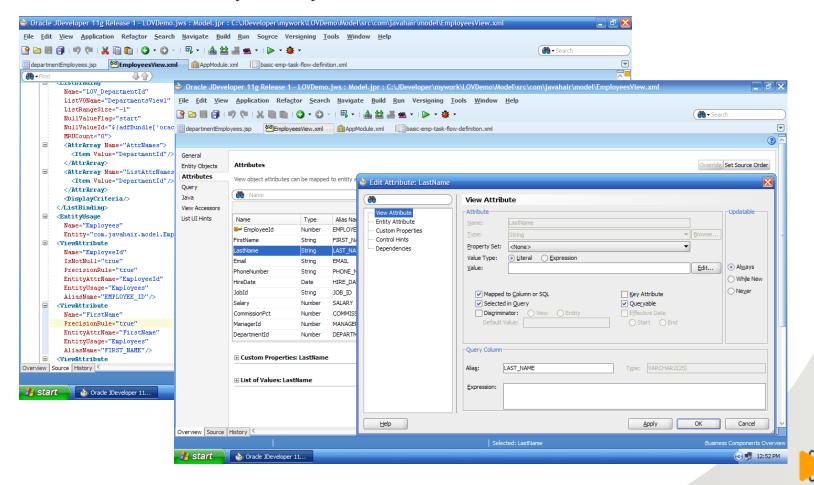
Example ADF Simple Search/Edit Screen

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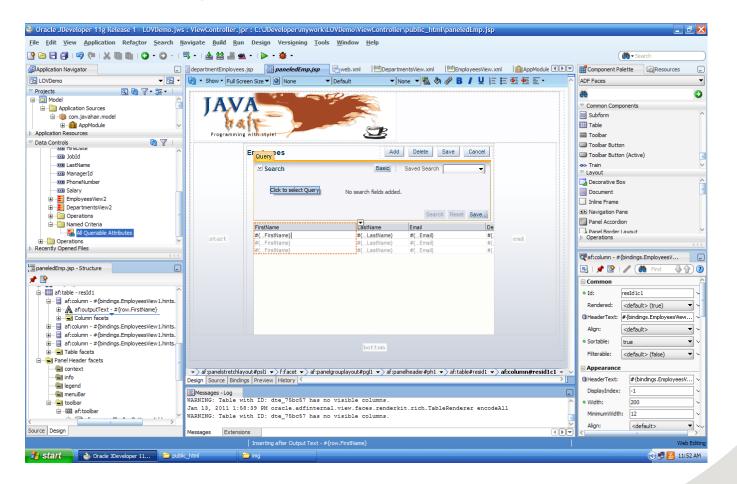
ADF JDeveloper

View Code in a variety of ways



ADF JDeveloper

Lots of functionality in build-in components



Here is the code!

- Managed Beans
 - Scope taken care of (PageFlow scope!)
 - Assisted Method Creation
- Application Module Implementation
 - Create new pre-populated rows
 - Execute a complex business function
- ViewObjectImpl
 - Modify the SQL before execution (filter)
- ViewObjectRowImpl
 - Calculate a field (or use Groovy!)





Groovy

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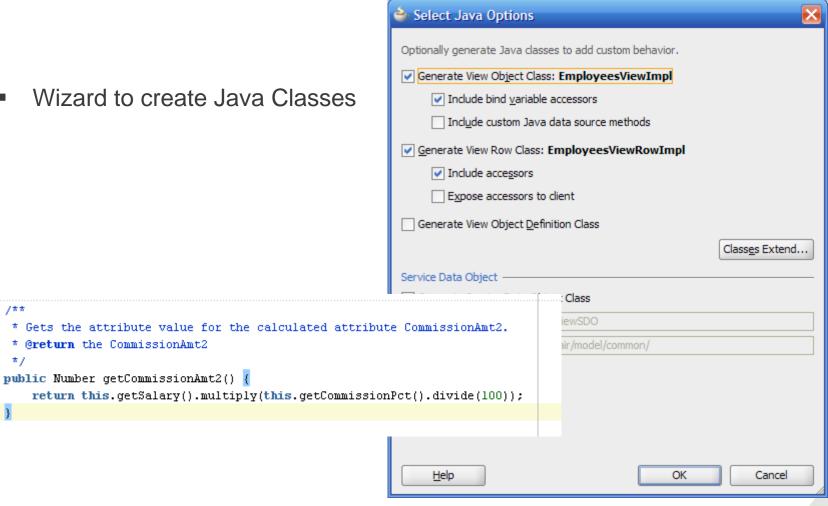
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Java

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Wizard to create Java Classes



Knowing is half the battle





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- Production Releases
 - Currently 11g Patch Set 3 (11.1.1.4)
 - Roughly 1 Release Every 6 months
 - New Plug-ins to come
- New Features
 - ADF Support for IBM WebSphere
 - Enhanced Design-time features
 - New Fusion Skin (11.1.1.2)
- Lots of Bug Fixes





- Oracle Purchases
 - BEA
 - WebLogic
 - SUN
 - Java!!!
 - NetBeans
 - Glassfish







- Updated Documentation
 - Completed Help
 - Oracle TechNet Site
- Actual Books
 - Grant Ronald
 - Frank Nimphius
 - Lynn Musinger
 - Duncan Mills





Quick Start Guide to

Oracle Pusies Development







- Blogs
 - Java-Hair
 - <u>http://wiki.oracle.com/page/ADF+Blogs</u>
- Forums
 - ADF & JDeveloper Forum
 - ADF EMG Group



To ADF or not to ADF



When to ADF

- Need a mature J2EE framework
- Want to be able to prototype quickly
- Want to concentrate on the "meat" of the application
- Have some experienced Java programmers
- Have many Forms
 Programmers

When not to ADF

- Do not want to be tied to an Oracle License
- Have other Application
 Servers in place
- No time for learning curve



Summary

- Started in Java
- Did not go "all-in" with ADF
- Finally jumped in with ADF
- My Advice make the leap





Questions?

- For follow-up questions:
 - Rob Nocera
 - <u>rnocera@vgosoftware.com</u>
 - java-hair.com



