

Eclipse RCP Training COURSE OUTLINE



May & June 2008

1. Introduction to RCP

- Brief history
- Benefits / examples
- Anatomy of an RCP application
- Internal architecture
- Concept of Plug-in based modularization
- First glance at PDE
- Related links and resources
- Optional: introductory demos (plug-ins/minimal RCP)

2. RCP Application lifecycle

- Physical artifacts
- Runtime artifacts
- Development time artifacts

3. Internal structure

- Runtime and OSGi
- Generic Workbench
- Plug-ins
- Start-up sequence
- Extension Points, Extensions, Contributions
- SWT / JFace
- Related links and resources

4. Workbench

- Eclipse's UI-metaphor
- Launching : IPlatformRunnable
- Windowing: Window, Menu, Page, Part
- Advisor classes
- Related links and resources

5. Publishing

- Plug-in publication
- Products
- Features
- Update Site
- Update Manager
- Branding, themes, and customizations
- Related links and resources

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6. Plug-ins

- Identity
- Configuration (MANIFEST.MF, plugin.xml)
- Lifecycle
- Related links and resources

7. Contributing to Workbench

- Extension points
- Extensions
- Contributions to the Workbench
- First examples of Contributions
 - Perspectives
 - Views
- Using ActionBarAdvisor versus extension points
- Create your own Extension Point
- Related links and resources

8. Introduction to SWT

- About SWT
- Ideas behind SWT
- SWT packages
- Basic structure of an SWT application
- Threading in SWT
- SWT widgets / controls
- SWT custom widgets
- SWT events
- Layouts
- Resource management: Colors, Fonts, Images
- SWT / AWT bridging
- Related links and resources

9. Introduction to JFace

- Introduction
- JFace dialogs and Wizards
- JFace structured viewers
- Selection services
- Preference Pages
- Related links and resources

10. Views

- Introduction / concept of a View
- Views: The general-purpose Workbench Part
- How to create a custom View
- Linking with the Properties View
- Related links and resources

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11. Commands and Actions

- Introduction
- Menus, Commands, and Handlers
- Key bindings
- Types of Actions
- Lazy loading
- Contributing actions to Views
- Visibility and enablement
- Actions and selections
- Related links and resources

12. Editors

- Introduction / concept of an Editor
- Difference between a View and an Editor
- Types of Editors
- Implementing an Editor
- Dirty state management
- Contribution and opening of an Editor
- Related links and resources

13. Wizards

- Contributing wizards
- Defining a wizard extension
- Implementing a Wizard
- Implementing a Wizard Page
- Customizing a wizard
- Controlling wizard page progression
- Reusable specialized wizard pages
- Related links and resources

14. Help

- Structure of Eclipse help system
- Table of contents
- Context sensitive help
- Help contexts
- Dynamic Help
- Active Help
- Related links and resources

15. New and Noteworthy Features of Ganymede

- Overview
- Features