

Automated Software Quality and Testing Tools

CodePro AnalytiX™ for Eclipse, Rational® and MyEclipse

eclipse
READY™

Unfair Advantage



“We are impressed with the capabilities of CodePro. The dynamic audit facility allows us to enforce programming standards and best practices at development time, instead of having to rely on extensive and lengthy code reviews. This results in cost savings and ensures that we deliver our software on time.”
—Rich Main, Director, Java Development Environments, SAS

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www.instantiations.com/codepro



Third Edition
Summer 2008



CodePro AnalytiX™ is developed by the experts who brought you the popular book *Eclipse: Building Commercial Quality Plugins* — Eric Clayberg & Dan Rubel

Defect Detection, Repair and Reporting

Automated JUnit Test Generation

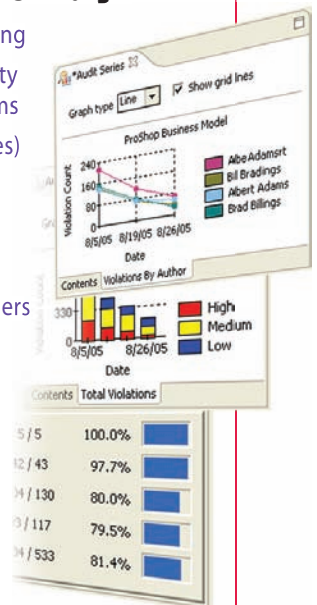
JUnit Test Editor

Code Coverage Analysis

Static Code Analysis

Key Features of CodePro AnalytiX™

- Defect detection, repair and reporting
- Define, distribute and enforce quality standards across development teams
- Static code analysis (960+ audit rules)
- Duplicate code analysis
- Advanced audit filtering
- Powerful management reporting
- Code metrics with drilldown & triggers
- Auditing for Java™, JSP, JSF, Struts, Hibernate and XML
- Automated JUnit test generation
- JUnit test editor
- Code coverage analysis
- Dependency analysis and reporting
- Integrated team collaboration
- Seamless integration with Eclipse, Rational®, WebSphere® and MyEclipse; supports Rational Application Developer v7.



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No one has more experience building
Eclipse software quality tools

Get **CodePro Profiler™** —the perfect complement
to **CodePro AnalytiX™** www.instantiations.com/codepro/profiler/

eclipse
FOUNDATION
MEMBER

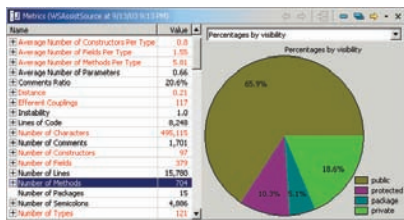
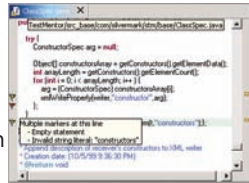
IBM
Business
Partner

CodePro AnalytiX is a comprehensive set of software analysis tools composed of a collection of native Eclipse plugins. CodePro seamlessly integrates into any Eclipse-based Java desktop development environment, adding code audit, metrics, test generation, JUnit test editing, code coverage, and team collaboration features and functionality.

Code Analysis and Metrics

Dynamic, extensible tools that detect, report and repair instances of non-compliance with predefined coding standards and style conventions.

- Catches 960+ Audit Violations
- Manual and Dynamic Code Auditing
- Audit Popular Java Frameworks (JSF, Struts & Hibernate)
- Date-Delimited Audit Filtering
- Time-Delimited Audit Filtering
- Duplicate Code Analysis
- Metrics with Drill-Down, Triggers and Reports
- Generation of Management Reports
- Multiple Report Formats (HTML, XML, CSV)
- QuickFixes for 350+ Violations
- Audit Explorer View
- Audit Series Editor
- Customization of Audit Rules and Metrics
- Keyword Audit Rule Search
- Ability to Define Multiple Audit Rule Sets and Metric Sets
- Audit Rule Creation Wizard
- Local Control of Disabling Audit Rules
- Project-Level Defaults
- Rational Code Review Integration
- Detailed Charts and Graphs

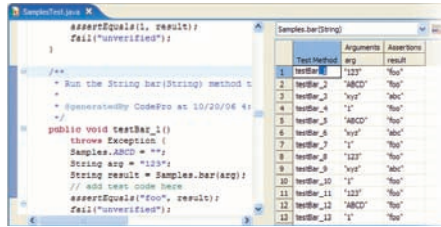


Audit Rule Categories

- Coding Style
- Comments
- Dead Code
- Eclipse Plugins
- Exceptions
- Formatting
- Hibernate
- Import Usage
- Inheritance
- Internationalization
- J2EE (EJB, JSP, Portlets and Servlets)
- Javadoc Conventions
- Java Server Faces (JSF)
- JDBC Usage
- JUnit Usage
- Logging (JCL, log4j)
- Miscellaneous
- Modifier Usage
- Naming Conventions
- Performance
- Portability
- Possible Errors
- Potential Refactorings
- Program Complexity
- Property Files
- Security**
- Semantic Errors
- Spell Checking
- Spring
- Struts
- Threading
- UI Specific
- XML Files

JUnit Test Editor

A rich JUnit test editing environment that enables rapid creation, organization and modification of unit tests.

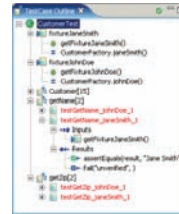


- Supports both 'source' and 'tabular' style JUnit test editing
- Create JUnit tests faster and more accurately
- Lets you easily compare inputs and assertions for multiple tests
- Performs background execution of tests
- Provides visual feedback of test results in the editor
- Includes preference options for flexible editor layout
- Helps find problems early; fosters consistency

JUnit Test Generation

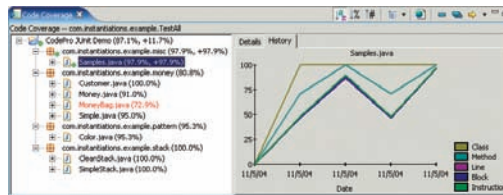
Timesaving facility that automates the creation of comprehensive JUnit regression test cases.

- Generate High-Quality JUnit Regression Tests
- Support for Design by Contract Tags
- Support for Factory Classes
- Automatic Test Suite Generation
- Ability to Update Tests as Base Code Changes
- Test Case Outline View



Code Coverage

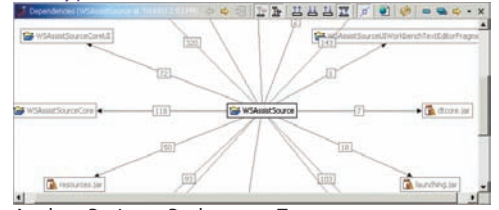
Powerful tools that measure what percentage of code is being executed using generated test cases.



- Analyze Individual Test Cases or Entire Test Suites
- Analyze Any Executable Application
- Utilize Eclipse Java Editor Integration
- Generate Detailed Coverage Reports
- Access Detailed Data at Any Level of Granularity
- Track Historical Coverage Data and Trends

Dependency Analysis

Automated tools that analyze and visually depict the dependencies between projects, packages, and types.



- Analyze Projects, Packages or Types
- Identify Complex, Cyclical Dependencies
- Reduce Coupling Between Modules
- Invoke Move and Rename refactorings
- Generate Detailed Dependency Reports and Metrics

Collaboration

Sophisticated team collaboration facility that enables sharing of tasks, preferences and messages in a distributed development setting.

- Share Team Audit Standards World-Wide
- Share Eclipse Environment Settings World-Wide
- Remotely Configure Hundreds of Eclipse Workstations
- Leverage Integrated Team Communication and Messaging



- Distribute rules and rule sets
- Track Bug Reports and Perform Collaborative Code Reviews
- Define and Monitor Team Work Flow Items
- Create and Schedule Remote, Automated Tasks

System Requirements

Operating System

- Microsoft Windows® 98, ME, NT, 2000, XP or Vista
- Linux (Motif) RedHat or SUSE

Java Development Environments

- IBM Rational® Application Developer 6.0, 7.0 or higher
- IBM WebSphere® Studio 5.1 or higher
- Eclipse 2.1, 3.0, 3.1, 3.2, 3.3 or higher
- MyEclipse 5.0 or higher



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