



Eclipse Dynamic Languages Toolkit 5.0 (DLTK) Release Review

June 6, 2013

DLTK - Introduction



- DLTK 5.0 releasing following components to Kepler
- Core Frameworks
- Ruby IDE
- TCL IDE
- XOTcl and ITcl OO Extensions support for TCL IDE
- Remote development via DSDP TM RSE
- Mylyn Integration Component

DLTK - Community



- Community
- 13 committers from Zend Technologies, Embarcadero, Xored Software, Servoy, and individual committers
- DLTK Core Frameworks serves as a foundation for Eclipse PDT Project
- Embarcadero 3rdRail Ruby on Rails IDE and TurboRuby products are built on top of DLTK Ruby component
- froglogic is utilizing DLTK project in new version of their leading GUI testing and automation tool – Squish
- Servoy works on cross-platform application development environment based on DLTK JavaScript component
- More projects built on top of DLTK: http://wiki.eclipse.org/DLTK_Based_Projects

DLTK - Major Project Milestones



- Proposed December 2005
- Created December 2006
- DLTK 0.9 Released with Europa (June 2007)
- DLTK 0.95 Released with Ganymede (June 2008)
- Project plan available at http://wiki.eclipse.org/DLTK_0.95_Project_Plan
- DLTK 1.0 Released with Galileo (June 2009)
- Project plan available at <http://www.eclipse.org/projects/project-plan.php?projectid=technology.dltk>
- DLTK 2.0 Released with Helios (June 2010)
- DLTK 3.0 Released with Indigo (June 2011)
- DLTK 4.0 did not introduced significant features, but the team was focused on project stability, API refinements, performance improvements and adopters support.
- DLTK 5.0 did not introduced significant features, but the team was focused on project stability, API refinements, performance improvements and adopters support.



DLTK 5.0 Features

- Core Frameworks
 - Structural Source Code Model
 - Type Inference Engine
 - Search and Indexing
 - Launching and Debugging over DBGp protocol
 - Interactive Console
 - Common UI components (Wizards, Views, Preference Pages, etc)
- Ruby IDE Component
 - Many of JDT-alike features implemented
- TCL IDE Component
 - Many of JDT-alike features implemented
- Python IDE Component
 - Many of JDT-alike features implemented
- JavaScript IDE Component
 - Many of JDT-alike features implemented
- Integration Components
 - Mylyn Integration and Remote Projects support via RSE

DLTK - Intellectual Property



- Core, TCL, Python, Ruby, and JavaScript components source code approved have been made under EPL 1.0 (CQ #1135).
- Ruby component contains source code derived from JRuby (available under CPL). Code approved to use with DLTK (CQ #1137).
- org.apache.xmlbeans 2.3 (CQ #1598) – approved but not used in DLTK yet
- ANTLR Runtime (Only) 3.0 (CQ #1647) – used by Python and JavaScript components (incubated within DLTK Project)
- Rhino Version 1.6R2 (CQ #1591) - derived code used by JavaScript Component
- h2 Database 1.1.117 (CQ #3467) - used by the DLTK Indexing Framework
- All plugins contain appropriate license files
- All committers have completed Eclipse Committer Agreements and have been approved by the PMC

DLTK - API: 5.0 Status



- **Implementation**
 - DLTK Core Frameworks API is used by 10+ projects and quite stable
 - Other DLTK components and external projects depends on the Core
- **Documentation**
 - Project still lacks of documentation, but well supported by community using newsgroup and other communication channels
- **Test Cases**
 - Essential parts of the code covered well with test cases
- **Compatibility**
 - Version 5.0 is not backward compatible with 4.0



DLTK - Defect Statistics (All Components)

- Version 5.0 to be released:
 - 963 - TOTAL
 - 253 - NEW
 - 68 ASSIGNED + REOPENED
 - 642 RESOLVED + VERIFIED + CLOSED