



GEF Release Review 3.2

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Agenda



- Features
- Non-Code Aspects
- Release Engineering
- APIs
- Architectural Issues
- End-of-Life
- Bugzilla
- Standards
- Schedule
- Process
- Community
- IP Issues
- Project Plan

New features in 3.2



- Enhanced layout support
 - Ability to handle disconnected graphs in the directed graph layout algorithm.
 - New animated layout capability in any figure container.
- Improved examples
 - WYSIWYG text editing fixes for caret placement
 - WYSIWYG text editing support for key board navigation (page-up, page-down, home etc.)
- Improved performance
 - Avoiding redundant thumbnail refreshes
 - Resizing palette performance

Non-Code Aspects



- New GEF Wiki created
 - Comprehensive content added
 - http://wiki.eclipse.org/index.php/Graphical_Editing_Framework
 - Updated various FAQs
- Localization/Externalization
 - Adopted ICU4J as per platform requirement
 - Translation verification test-cases updated
- Accessibility checklist kept up-to-date
 - <http://www.eclipse.org/gef/developer/accessibility.html>
- Increased JUnit / automated testing coverage
- No other GEF-maintained material identified as obsolete
 - Javadoc and ReadMe will be updated

Release engineering



- Satisfying Callisto requirements
 - Update Require-Bundle of plugin manifest to specify bundle-version
 - Update build naming convention - Build Id was updated to the new naming convention adopted by platform
 - Created new update sites for GEF
 - <http://download.eclipse.org/tools/gef/releases/update-site/site.xml>
 - <http://download.eclipse.org/tools/gef/milestones/update-site/site.xml>

API (Draw2d)



- API is Eclipse Quality
- New classes / interfaces (refer to JavaDoc for further info)
 - `org.eclipse.draw2d.Animation`
 - `org.eclipse.draw2d.Animator`
 - `org.eclipse.draw2d.LayoutAnimator`
 - `org.eclipse.draw2d.NativeGraphicSource`
 - `org.eclipse.draw2d.RoutingAnimator`
 - `Org.eclipse.draw2d.RoutingListener`

API (Draw2d)



- New methods (refer to JavaDoc for further info)
 - `org.eclipse.draw2d.geometry.PointList#reverse`
 - `org.eclipse.draw2d.geometry.PointList#transpose`
 - `org.eclipse.draw2d.graph.DirectedGraph` (new getters / setters)
 - `org.eclipse.draw2d.graph.Edge` (new getters / setters)
 - `org.eclipse.draw2d.graph.Node` (new getters / setters)
 - `org.eclipse.draw2d.graph.ShortestPathRouter#getSpacing / setSpacing`
 - `org.eclipse.draw2d.ShortestPathConnectionRouter#getSpacing / setSpacing`
 - `org.eclipse.draw2d.DeferredUpdateManager#sendUpdateRequest`
 - `org.eclipse.draw2d.FigureUtilities#isAncestor`
 - `org.eclipse.draw2d.PolylineConnection#addRoutingListener`
 - `org.eclipse.draw2d.UpdateManager#performValidation`

API (GEF)



- API is Eclipse Quality
- New classes / interfaces (refer to JavaDoc for further info)
 - `org.eclipse.gef.editparts.SimpleRootEditPart`
 - `org.eclipse.gef.SelectionManager`.

API (GEF)



- New methods (refer to JavaDoc for further info)
 - `org.eclipse.gef.commands.CommandStack#notifyListeners`
 - `org.eclipse.gef.commands.CommandStackEvent#isPreChangeEvent / isPostChangeEvent`
 - `org.eclipse.gef.editpolicies.GraphicalNodeEditPolicy#getDummyConnectionRouter`
 - `CombinedTemplateCreationEntry`: new constructors
 - `DirectEditManager`: new constructor
 - `org.eclipse.gef.ui.palette.FlyoutPaletteComposite#createFlyoutPreferences`
 - `org.eclipse.gef.EditPartViewer#getSelectionManager`
 - `Org.eclipse.gef.SnapToGeometry#getLocation / getType`

Architectural Issues



- Core architecture is stable; no changes there
- New listeners added to allow clients to hook into key architectural events (layout, etc).
- GEF introduces non-critical “new” features as internal or in examples
 - Gives us a chance to address any problems, revamp architecture if necessary, gather usage data

End-of-Life



- No classes / methods were deprecated in GEF 3.2

Bugzilla



- New bugs reported since 3.1.2 – 93 (7 critical)
- Bugs fixed in this release – 73 (5 critical)
- Existing P1s and P2s – 0
- Bugs outstanding – 151
- Enhancement requests outstanding – 35

Standards



- GEF doesn't follow any specific standard per se; N/A
- Mimic *implicit* standards by other graphical applications
 - Examples
 - Rulers similar to common word processor applications
 - Rich-text rendering behaviour modeled from popular browsers
- Follow OS and Eclipse platform standards, where applicable
 - Examples
 - Keybindings
 - PaletteCustomizerDialog looks like platform's Preferences dialog

Schedule



- Schedule closely followed the platform's release schedule
 - <http://www.eclipse.org/gef/project-info/summary.html>
- RC1 was 3 days late because of Eclipse.org download issues

Process



- Conformed with Eclipse standards
 - Open, transparent and inclusive
 - Newsgroup remains the main medium for clients to share knowledge, ask questions, and identify problems
 - Mailing list used extensively to elicit requirements, keep GEF shareholders updated about new developments, discuss architectural enhancements and API changes, and solicit contributions
 - Bugzilla used for tracking changes and accepting contributions
- Room for improvement
 - Detailed milestone plans
 - Follow platform process more closely
 - Provide summary of changes between milestones

Community



- GEF continues to be highly popular!
 - De facto framework for graphical-editing in Eclipse
 - Lots of interest at EclipseCon 2006
 - Newsgroup is very active
 - GEF is often among the Top 10 Downloads at eclipse.org
- Part of Callisto effort
- Community's making up for the lack of non-javadoc documentation
 - Articles, Wiki, RedBooks, books, examples

IP Issues



- Fixed remaining erroneous occurrence of CPL license in source and changed to EPL.

Project Plan



- 3.3 plan hasn't been drawn up yet
- Looking forward:
 - Editing of rich text
 - Palette Keybindings
 - Complex layouts (grid and perhaps table)
 - Smart orthogonal routing of connections
 - Enhanced snapping support (creation, bendpoints)
 - Support for platform's operation history framework
 - Curved connections
 - Enhanced image support (copy / paste / export / display of formats)

That's all, folks!



- Any questions?