

SwingX Update

JavaOne 2010

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Overview

- What is SwingX?
- What have we been up to (since JavaOne 2009)?
- What is on the horizon?
- Questions.

What is SwingX?

- Enhanced core components
 - Unified collection representation
 - Rendering, sorting, filtering, searching
 - Painting support
- Missing components:
 - Date picker
 - Collapsible pane
 - Task pane
 - Login pane
 - Multi-Split pane
 - Tip of the day
 - Etc.

What have we been up to?

- Move to 1.6.
- Pruning poor APIs and components.
- Fixing bugs (of course).
- Opening up the API to new features and new components.
- Mavenization

Move to 1.6

- SwingX 1.0 was the final release against Java 1.5.
- SwingX 1.6 baseline is Java 1.6.
- We could drop external dependencies:
 - Swing Worker backport
 - Multiple gradient paint
 - Group layout backport
- We could move forward with sorting/filtering issues.
 - Dropped SwingX custom sorting/filtering
 - Moved to core compliant sorting/filtering (with SwingX improvements of course!)
- Support Nimbus.

Pruning the APIs

- Removed components:
 - JXImagePanel (redundant with JXImageView)
 - JXLoginDialog (redundant with JXLoginPane)
 - JXGlassBox (not very good)
 - Others may occur, but as always with notice and reasoning on the forums

Bug Fixes

- AutoComplete:
 - Memory leak gone
 - Now use arrow keys for navigation on all platforms when cell editor
 - Removed the firing of “empty” updates with arrow key traversal
- Painter-related:
 - Interference with set background color
 - Limited JXButton properties were opened
 - Infinite repaint issue with JXButton

New APIs

- Rendering/Highlighting:
 - Support for drop colors
 - More highlighters
 - Color blend, font, tooltip, alignment, enabled, border
 - More predicates
 - Rollover column, rollover cell, selected, truncated text , type
 - More robust ComponentAdapter
 - Can now convert both rows and columns to and from model coordinates
 - Has cell bounds (use by truncated text predicate): caution can lead to StackOverflow if used incorrectly
 - Demo!

New APIs

- JXComboBox
 - Allows type-to-edit to work with AutoComplete
 - Adds highlighter support
 - Still missing:
 - Filtering
 - Wide drop-downs
 - Demo!

New APIs

- Prompt support
 - Supports prompts for JTextComponent subclasses
 - Has multiple focus behaviors
 - Can configure background, foreground, font style
 - Background painter support is experimental, but no complaints yet
 - Still missing:
 - Support for non-text components, specifically JComboBox
 - This may require the migration/alteration of current PromptSupport APIs
 - Demo!

Mavenization

- Using Maven for a long time to house our artifacts.
 - SwingX 0.9-1.0 and 1.6 and 1.6.1 are all available in repos.
- Now use Maven to build our project instead of an afterthought.
 - Allow us to add more modularization to SwingX.
 - Painters, Addon/PLAF support, etc.
 - Help maintain a more clear packaging and dependency structure within our own code.

What's on the Horizon

- SwingX 1.6.2:
 - Released yesterday
 - Artifacts available in Maven central and on java.net
 - Focus areas for release:
 - Painter improvements
 - General code health

What's on the Horizon?

- Incubator moves for (nearly) ready components:
 - JXScrollMap
 - Demo!
 - Some painters
 - Scrolling menus (solves long-standing issues with large column control menus)
 - JXMonthView -> JXCalendar
 - JXMenuBar (built-in busy indicator)
 - Check lists

What's on the Horizon

- New ideas:
 - Improved support of Localization?
 - Support undo for collection components out-of-the-box?
 - Support of editor validation?
 - JSR-310 support in date components?
- New directions based on your feedback.

Questions

- After today use the forum
 - <http://forums.java.net/jive/forum.jspa?forumID=73>
- Continuous Integration with Hudson
 - <http://swinglabs.org/hudson/>