

JavaFX 27 Release Notes

The following contains all of the release notes for JavaFX 27 releases:

- [JavaFX 27](#)

JavaFX 27

The following notes describe important changes and information about this release. In some cases, the descriptions provide links to additional detailed information about an issue or a change. These release notes cover the standalone JavaFX 27 release.

Supported Runtimes

JavaFX 27 requires JDK 25 or later. JDK 27 is recommended.

Supported Platforms

JavaFX 27 is available for Linux x86_64, Windows x86_64, and macOS AArch64.

Important Changes

- **JavaFX 27 Requires JDK 25 or Later** ([JDK-8376601](#))
JavaFX 27 is compiled with `--release 25` and thus requires JDK 25 or later to run. If you attempt to run a JavaFX 27 application with an older JDK, the Java launcher will exit with an error message indicating that the `javafx.base` module cannot be read.
- **Metal Is the Default Rendering Pipeline on macOS** ([JDK-8373091](#))
Metal is now the default rendering pipeline on macOS, replacing the OpenGL-based ES2 pipeline. Applications will benefit from a modern, faster, and low-power graphics API. If needed, applications can revert to the ES2 pipeline by adding `-Dprism.order=es2` to the command line.

List of New Features

#	Link	Area	Summary
1	JDK-8356042	javafx/controls	RichTextArea: tab stops attributes
2	JDK-8366198	javafx/controls	RichTextArea: embedded image, text background, wavy underline attributes
3	JDK-8364149	javafx/graphics	Conditional stylesheet imports
4	JDK-8374804	javafx/graphics	ConditionalFeature media queries
5	JDK-8374822	javafx/graphics	Platform media query
6	JDK-8386617	javafx/graphics	JavaFX controls in the title bar

List of Other Enhancements

#	Link	Area	Summary
1	JDK-8343133	javafx/accessibility	Create implementation of NSAccessibilityNavigableStaticText protocol
2	JDK-8379150	javafx/accessibility	[macos] [a11y] Create implementation of accessibility protocol for hyperlink
3	JDK-8370902	javafx/controls	RichTextArea: migrate to new text APIs
4	JDK-8374809	javafx/controls	[RichTextArea] accessibility
5	JDK-8380933	javafx/controls	TableView sorting very slow when many cells selected
6	JDK-8385533	javafx/controls	Cell "focused" PseudoClass handling is unnecessary
7	JDK-8377904	javafx/graphics	Replace Double.parseDouble() with CssNumberParser
8	JDK-8378895	javafx/graphics	Reduce object allocations in Renderer.getPeerInstance()
9	JDK-8378970	javafx/graphics	Don't use exceptions for flow control in CssParser.colorValueOfString()
10	JDK-8385459	javafx/other	Animations should respect reducedMotion preference
11	JDK-8389371	javafx/other	cssref: explain font properties
12	JDK-8377427	javafx/scenegraph	Reduce substring allocations in Color.web(String, double)
13	JDK-8358823	javafx/window-toolkit	Improve documentation of custom header bars
14	JDK-8374630	javafx/window-toolkit	Replace GtkFileChooserDialog with GtkFileChooserNative to allow for better Flatpak integration

List of Fixes

#	Link	Area	Summary
1	JDK-8195614	javafx/base	FilteredList throws <code>ArrayIndexOutOfBoundsException</code> if created with 1 element
2	JDK-8195750	javafx/base	FilteredList throws <code>ArrayIndexOutOfBoundsException</code> on <code>ListChangeEvent</code> with multiple change
3	JDK-8208758	javafx/base	<code>ListChangeBuilder</code> doesn't shift indices after idempotent change pairs
4	JDK-8237868	javafx/base	<code>java.lang.IndexOutOfBoundsException</code> in <code>FilteredList</code>
5	JDK-8359020	javafx/base	<code>TabObservableList.reorder</code> changes content of filtered list
6	JDK-8387655	javafx/base	<code>java.lang.NullPointerException</code> : Cannot invoke <code>"java.lang.Boolean.booleanValue()"</code> because <code>"newValue"</code> is null
7	JDK-8181411	javafx/controls	Performance problem with <code>TreeTableView.selectAll()</code>
8	JDK-8202066	javafx/controls	<code>ListView</code> with large number of rows is extremely slow when changing current multiple selection to a subset
9	JDK-8256142	javafx/controls	<code>TreeView</code> : initial focused item incorrect
10	JDK-8274928	javafx/controls	JavaFX virtual keyboard missing ^ character
11	JDK-8301283	javafx/controls	Util methods for computing text/width height giving up some performance
12	JDK-8303060	javafx/controls	<code>ChoiceBox</code> : adding ~1000 items takes a long time
13	JDK-8311505	javafx/controls	Deselection of <code>TableView</code> rows is slow
14	JDK-8338145	javafx/controls	<code>ComboBox</code> popup is in wrong location on first showing
15	JDK-8351094	javafx/controls	macOS: <code>MenuBar</code> with custom menu items disappears
16	JDK-8365938	javafx/controls	<code>FileChooser</code> : <code>initialDirectory</code> must be a valid folder
17	JDK-8372398	javafx/controls	[macOS] Shown <code>ContextMenu</code> does not close when macOS system menu is clicked
18	JDK-8375444	javafx/controls	<code>MenuButton</code> - <code>textTruncated</code> Property is always false
19	JDK-8376492	javafx/controls	<code>NullPointerException</code> in <code>ContextMenu</code> sub-menu when graphic and style classes are changed while the menu is open
20	JDK-8377393	javafx/controls	<code>RichTextArea</code> : failed to export null color attribute value
21	JDK-8379662	javafx/controls	<code>TreeTableView</code> : initial focused item incorrect
22	JDK-8380216	javafx/controls	[macos] Missing <code>dispatch_release</code> in the <code>GlassApplication</code> class
23	JDK-8380308	javafx/controls	<code>TreeView</code> : selection of many rows is slow

#	Link	Area	Summary
24	JDK-8380926	javafx/controls	HeavyweightDialog does not check for a valid stage
25	JDK-8380935	javafx/controls	TextFieldSkin caret width calculation is broken
26	JDK-8384006	javafx/controls	ComboBox text does not update on String converter update
27	JDK-8384806	javafx/controls	ComboBox converter does not properly update contained null values
28	JDK-8385666	javafx/controls	Fix for JDK-8384806 broke combo box cell graphics
29	JDK-8385959	javafx/controls	Prompt text should be visible in empty focused TextInputControls
30	JDK-8154847	javafx/graphics	Rendering is incorrect or not visible with StageStyle.UNIFIED on some graphics cards
31	JDK-8369348	javafx/graphics	Failed assertion with scissor rect when Metal API Validation is enabled
32	JDK-8373527 (not public)	javafx/graphics	Improve Graphics playback
33	JDK-8373688	javafx/graphics	Wrong render scale is used if Window is on another screen when Scene is sized
34	JDK-8375070	javafx/graphics	NPE in Scene.ClickGenerator::preProcess when mouse button is none
35	JDK-8375227	javafx/graphics	Silent OOB in NGGroup::renderContent
36	JDK-8375363	javafx/graphics	StyleHelper.resetToInitialValues() interrupts animated properties
37	JDK-8375561	javafx/graphics	Class NGGroup is in need of some cleanup
38	JDK-8377153	javafx/graphics	JavaFX FlowPane layout causing improper wrapping of TextFlow nodes with max-width styling
39	JDK-8379209	javafx/graphics	Uninitialised variable in pathApplierFunctionFast of coretext.c
40	JDK-8379211	javafx/graphics	Uninitialised memory in Java_com_sun_javafx_font_freetype_OSFreeType_FT_1Outline_1Decompose
41	JDK-8379257	javafx/graphics	Update JPEG Image Decoding Software to 10
42	JDK-8382883	javafx/graphics	JavaFX on Linux crashed after some time when ES2Context.makeCurrent() was called
43	JDK-8383783	javafx/graphics	MediaQueryParser should reject query lists without comma separator
44	JDK-8386590	javafx/graphics	GridPane - content-biased child spanning multiple columns/rows is sized ignoring hgap/vgap
45	JDK-8387337	javafx/graphics	GlassClipboard: Replace deprecated hash_map and hash_set
46	JDK-8378510	javafx/media	Provide media support for libavcodec version 62
47	JDK-8379206	javafx/media	4 Null pointer dereference defect groups in 4 glib files

#	Link	Area	Summary
48	JDK-8379207 (not public)	javafx/media	Improve audio conversion
49	JDK-8379210	javafx/media	Null pointer dereference in gst_value_compare_fraction of gstvalue.c
50	JDK-8379213	javafx/media	3 Null pointer dereference defect groups in dlmalloc.c
51	JDK-8379561	javafx/media	Remove UNICODE related code from GLib
52	JDK-8381447	javafx/media	Remove G_DISABLE_CHECKS compiler flag on Windows to align GLib/GStreamer compilation with macOS/Linux
53	JDK-8383129 (not public)	javafx/media	Better Handling of MP4 Files
54	JDK-8383143 (not public)	javafx/media	Enhance Playlist Loading
55	JDK-8384809	javafx/media	Update GStreamer to 1.28.3
56	JDK-8375016	javafx/other	Several catch blocks for NullPointerExceptions exist in the codebase
57	JDK-8376836	javafx/other	Fix mistakes in FX API docs
58	JDK-8388526	javafx/other	[Windows] Crash in Platform.Preferences refresh on OS theme change when using FXCanvas
59	JDK-8384814	javafx/ scenograph	[macOS] Trackpad scroll gestures suddenly stop
60	JDK-8389093	javafx/ scenograph	Typos in the JavaFX CSS Reference Guide
61	JDK-8341852	javafx/web	Fix potential threading issue in WebView's RTImage
62	JDK-8364680	javafx/web	HelloWebView demo crashes when msn webpage is scrolled
63	JDK-8368572	javafx/web	Update WebKit to 623.1
64	JDK-8375084	javafx/web	Update libxslt to 1.1.45
65	JDK-8377099	javafx/web	Additional WebKit 623.1 fixes from WebKitGTK 2.50.4
66	JDK-8377930	javafx/web	Additional WebKit 623.1 fixes from WebKitGTK 2.50.5
67	JDK-8378226	javafx/web	Animated GIFs do not animate after WebKit 620.1 update
68	JDK-8378277 (not public)	javafx/web	Improve Editor selection
69	JDK-8380557	javafx/web	Additional WebKit 623.1 fixes from WebKitGTK 2.50.6
70	JDK-8383092 (not public)	javafx/web	Enhance WebView Resource Loading
71	JDK-8384522	javafx/web	Update libxml2 to 2.15.3
72	JDK-8263959	javafx/window- toolkit	Unexpected disable behaviour on macOS MenuBar

#	Link	Area	Summary
73	JDK-8335541	javafx/window-toolkit	[macOS] Help system menu won't hide or it is shown twice
74	JDK-8352298	javafx/window-toolkit	FileChooser: inconsistent behavior with setInitialName()
75	JDK-8381517	javafx/window-toolkit	GlassViewDelegate::convertNSStringToJString can return uninitialized value
76	JDK-8382165	javafx/window-toolkit	Emojis used in Stage.setTitle are not rendered and break application switching on Linux platform
77	JDK-8387626	javafx/window-toolkit	java.lang.NullPointerException: Cannot invoke "com.sun.glass.ui.Window.isMinimized()" because "this.platformWindow" is null
78	JDK-8388508	javafx/window-toolkit	[macOS] MenuItem graphics in the system menu bar is corrupted or disappears, or JVM crashes in CoreGraphics, under memory pressure

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