

Date Released

Final Release: August 2, 2018
 Final Candidate 4: July 26, 2018
 Final Candidate 3: July 25, 2018
 Final Candidate 2: July 23, 2018
 Final Candidate 1: July 14, 2018
 Beta 7: July 12, 2018 Minor demo change Desktop Only
 Beta 6: July 11, 2018
 Beta 5: July 5, 2018
 Beta 4: July 3, 2018
 Beta 3: July 1, 2018
 Beta 2: June 29, 2018
 Beta 1: June 21, 2018
 Alpha 3: June 11, 2018
 Alpha 2: June 1, 2018 [Private]
 Alpha 1: May 21, 2018

Desktop

Type	Change
ADD	GraffitiAccordion now has Add/Insert/Item/ItemCount/Remove/RemoveAll methods.
ADD	GraffitiAccordion now has ItemMouseEnter/ItemMouseExit events.
ADD	GraffitiAccordion now has a new "Simple" style that ditches a lot of the properties in favor of appearing more like system default controls.
ADD	GraffitiGrid now has ColumnContextClick and RowContextClick events.
ADD	GraffitiPropertyList now has a RowHeight property.
ADD	GraffitiPropertyList now has an AutoEdit property that will automatically bring up the editors for non-single line text nodes when the user clicks the current value.
ADD	GraffitiPropertyList now has a IconColor property.
ADD	GraffitiPropertyList now has an ExpanderColor property.
ADD	GraffitiRating
ADD	GraffitiSettings now has an Erase(DeleteFile as Boolean = False) method.
ADD	GraffitiSettings now supports Operator_Lookup.
ADD	GraffitiTabBar now has a new property: MaximumTabWidth as Integer
ADD	GraffitiTabBarItem now has a new property: CustomColors as Boolean
ADD	GraffitiTabBarItem now has a new property: TabColor as Color
ADD	GraffitiTabBarItem now has a new property: TextColor as Color
ADD	GraffitiTabBarItem now has a new property: TextBold as Boolean
ADD	GraffitiTabBarItem now has a new property: TextFont as String
ADD	GraffitiTabBarItem now has a new property: TextItalic as Boolean
ADD	GraffitiTabBarItem now has a new property: TextSize as Integer
ADD	GraffitiTabBarItem now has a new property: TextUnderline as Boolean
ADD	GraffitiTabBarItem now has a new property: TabColorActive as Color
ADD	GraffitiTabBarItem now has a new property: TextColorActive as Color
FIX	Corrected more than 300 analysis warnings.
FIX	GraffitiAccordion once again properly refreshes child containers on MacOS.

Type	Change
FIX	GraffitiActionBar now supports using image sets. As such, AddButton now only takes one parameter.
FIX	GraffitiColorPicker once again properly draws the transparency grid regardless of height.
FIX	GraffitiColorPicker once again utilizes colors set in the property inspector.
FIX	GraffitiDateTimePicker now properly draws custom colors on day names in calendar views.
FIX	GraffitiDateTimePicker now properly draws day background in calendar views.
FIX	GraffitiDesktopControl should no longer require write access to temporary folders in order to function.
FIX	GraffitiGrid now properly calculates percentage column widths on scale factors greater than 1.0
FIX	GraffitiGrid once again properly draws flex columns during scrollbar updates.
FIX	GraffitiGrid now automatically supports multiline values by using EndOfLine (any variation) and line wrapping.
FIX	GraffitiGrid no longer draws text too far right of the cell (making part of the text invisible).
FIX	GraffitiGrid no longer draws outside the border in DrawCellProgress.
FIX	GraffitiHTMLEditor no longer misplaces the caret when entering a character and the field is empty on macOS 10.13.
FIX	GraffitiHTMLEditor inserts (image, table, audio, twitter, etc) now work properly on 10.13.4.
FIX	GraffitiHTMLEditor no longer passes unnecessary data between the JavaScript library and the Xojo class during text changes. This should be a major positive for performance.
FIX	GraffitiHTMLEditor no longer loses spaces that fall in increments of 900 characters in the text in the HTML and Text properties.
FIX	GraffitiHTMLEditor now focuses the editor when focus is switched to the class.
FIX	GraffitiPropertyList now properly draws the disclosure widget on HiDPI.
FIX	GraffitiPropertyList now expands or collapses rows when clicking anywhere in the row, rather than only on the disclosure widget.
FIX	GraffitiPropertyList now applies Font styles (excluding colors) to the cell editor.
FIX	GraffitiPropertyList now properly positions PropertyListChild.kChildList windows on mixed scaling setups.
FIX	GraffitiSwitch now properly displays Focus Rings (using System color on the knob) on Windows when UseFocusRing = True and AcceptFocus = True.
FIX	GraffitiSwitch False-to-True animation no longer begins outside the control's area.
FIX	GraffitiSwitch animation speeds tweaked a little.
FIX	GraffitiSyntaxEditor now provides the appropriate line index for Breakpoint events.
FIX	GraffitiTreeView once again properly supports dragging tree items without using the explicit drag handle icons.
FIX	GraffitiTreeView nows draws properly on load in 2018r1.1.
FIX	GraffitiTreeView once again properly positions the row editor.
FIX	GraffitiTreeView once again fires NodeDoubleClick event on uneditable and unexpandable rows.
FIX	GraffitiTreeView now properly updates nodes expanded state on double-click.
NOTE	GraffitiAccordion now defaults to 12pt font size when 0 is provided in the TextFont property.
NOTE	GraffitiAccordion updated to use item interface.
NOTE	GraffitiCalendar updated to use item interface.
NOTE	GraffitiGrid updated to use column interface.
NOTE	GraffitiHTMLEditor no longer conditionally uses ECMAScript6 or ECMAScript5. The class is now strictly ECMAScript5 to help in debugging macOS versions older than 10.13 and provide a more consistent experience across platforms.

Type Change	
NOTE	GraffitiPropertyList has new default icons, colors and spacing.
NOTE	GraffitiTabBar updated to use item interface.
NOTE	GraffitiTagField updated to use item interface.
NOTE	GraffitiTreeView now uses the Styles enumeration for the Style property.
NOTE	GraffitiTreeView updated to use item interface.

Web

Type Change	
ADD	GraffitiWebAccordionNav now has methods for iteration: Item(index), ItemCount
ADD	GraffitiWebAccordionNav now has additional update methods: UpdateIcon, UpdateText
ADD	GraffitiWebAccordionNav now has an additional RemoveItem overload: RemoveItem(GraffitiWebAccordionNavItem)
ADD	GraffitiWebAdSense
ADD	GraffitiWebAlert now has *_O events for returning objects rather than the normal events which only return strings. GraffitiWebAlert will move to the new events, and remove the old ones in R28.
ADD	GraffitiWebButtonSegment now has a Count() as Integer method.
ADD	GraffitiWebButtonSegment now has a Button(Index as Integer) as GraffitiWebSegmentButton method.
ADD	GraffitiWebButtonSegment now has a FullWidth as Boolean = False property. When True all buttons will expand to fill the control's width.
ADD	GraffitiWebCamera 2.0.
ADD	GraffitiWebCamera now supports device selection.
ADD	GraffitiWebCamera now supports Safari on iOS and macOS.
ADD	GraffitiWebChart now has a BackgroundColor as Color property.
ADD	GraffitiWebContextMenu now supports creating and manipulating arbitrary menus that are disconnected from on-page objects.
ADD	GraffitiWebCurrencyField now has a ReadOnly property.
ADD	GraffitiWebGrid 2.0
ADD	GraffitiWebGrid has new Events: EditBegin, EditEnd
ADD	GraffitiWebGrid has a new Property: Editing as Boolean
ADD	GraffitiWebGrid has new Methods: EditCommit, EditCancel
ADD	GraffitiWebGrid now has a Currency EditType, which should be used for Double/Currency values.
ADD	GraffitiWebGrid now has FormatTypes.Double and EditTypes.Double
ADD	GraffitiWebGridColumn now has a DecimalPlaces property for use with Double values, and defaults to 4.
ADD	GraffitiWebLikert 2.0
ADD	GraffitiWebPagination
ADD	GraffitiWebTabBar now supports FontAwesome icons in tabs.
ADD	GraffitiWebTextField
ADD	GraffitiTimePicker now has MeridiemLow(AM) and MeridiemHigh(PM) properties for customization of ante- and post-meridiem strings.
ADD	GraffitiWebToggle now has TrueStyle as WebStyle and FalseStyle as WebStyle properties.
ADD	GraffitiWebToolbar

Type	Change
ADD	GraffitiWebTooltip's Bind and BindTo methods now have an additional optional parameter: ShowDelay as Integer = 1000.
REM	GraffitiWebDatePicker no longer has a SetValue method. Value should be set directly to the Value property using Date objects.
REM	GraffitiWebTree no longer has an ItemsChecked event.
FIX	GraffitiWebAccordionNav's UpdateNotifications method once again works.
FIX	GraffitiWebAccordionNavItem's NotificationCount property now defaults to -1, which hides the count in the display.
FIX	GraffitiWebAlert now properly requires FontAwesome icon types be specified for buttons and alerts.
FIX	GraffitiWebAlert no longer throws JavaScript exceptions when using special characters in button names or captions.
FIX	GraffitiWebAlert now automatically converts EndOfLine to HTML line break tags.
FIX	GraffitiWebAlert once again honors the Modal property of GraffitiWebAlertMessages.
FIX	GraffitiWebButton now honors Colored, Accent, and Override properties when FaceStyle = 0.
FIX	GraffitiWebButtonSegment no longer reports the existence of a non-existent ExtraSmall size.
FIX	GraffitiWebChart no longer crashes when using apostrophes in the labels of some chart types.
FIX	GraffitiWebCalendar's ListMonth view now switches properly.
FIX	GraffitiWebCalendar no longer randomly sends AllDay events off in to the ethereal void.
FIX	GraffitiWebCalendar's ViewChanged event is now more reliable, and properly fires when you navigate timeframes in a single view.
FIX	GraffitiWebCamera no longer throws a JavaScript exception on IE11. This class doesn't work in IE11, but it fails gracefully.
FIX	GraffitiWebContextMenu no longer inappropriately assigns the MenuItem style to submenus.
FIX	GraffitiWebCurrency once again properly supports more than two decimal places.
FIX	GraffitiWebDatePicker should now honor IE and Edge clear button on Input field.
FIX	GraffitiWebDatePicker now fires the ValueChange event more appropriately.
FIX	GraffitiWebDatePickers now show the widget tick in the appropriate place based on Orientation.
FIX	GraffitiWebDatePickerRange once again properly applies the Format property on load.
FIX	GraffitiWebGrid column resizing now works as expected.
FIX	GraffitiWebGrid column sorting once again works as expected.
FIX	GraffitiWebGrid once again has a keyboard handler with new KeyPress event, which also supports modifier keys Alt, Ctrl, and Shift.
FIX	GraffitiWebGrid now updates SelectedRows and SelectedCell when using the NextRow/PreviousRow/NextCell/PreviousCell methods, and fires the SelectionChanged event.
FIX	GraffitiWebGrid RowSelectionChanged event renamed to SelectionChanged.
FIX	GraffitiWebGrid no longer locks up when scrolled to the bottom on a WebDialog.
FIX	GraffitiWebGrid ScrollPositionChanged event now only fires when the user has finished scrolling (after 100ms) in order to reduce the amount of communication with the server.
FIX	GraffitiWebGrid date cells are now formatted correctly upon update regardless of locale.
FIX	GraffitiWebGrid's date cell editor now automatically chooses the user's language rather than defaulting to English on all systems.
FIX	GraffitiWebGrid integer editing now properly drops decimal values using a Floor method.
FIX	GraffitiWebGrid now uses the browser's locale for displaying and parsing values in Currency columns.
FIX	GraffitiWebLabel now properly parses FontAwesome 5 Icons.

Type Change	
FIX	GraffitiWebLabel no longer throws JavaScript exceptions under certain circumstances.
FIX	GraffitiWebLikert once again updates values appropriately.
FIX	GraffitiWebNotifier service worker script now properly installed.
FIX	GraffitiWebNotifier no longer throws a JavaScript exception on Safari when requesting permission.
FIX	GraffitiWebPDF will now silently fail when trying to perform actions on a document, when no document has been created with NewDocument()
FIX	GraffitiWebPDF.AddImage no longer requires a Type parameter.
FIX	GraffitiWebPopupMenu should now display properly over modal dialogs.
FIX	GraffitiWebSignature no longer fires the SignatureChanged event when programmatically setting the SignatureData property.
FIX	GraffitiWebSpeechRecog no longer attempts to execute JavaScript in insecure sessions.
FIX	GraffitiWebSpeechRecog no longer throws a JavaScript exception in unsupported browsers.
FIX	GraffitiWebSyntaxEditor add and remove breakpoints now functions properly.
FIX	GraffitiWebSyntaxEditor Case Sensitive search now functions properly.
FIX	GraffitiWebTabBar now properly updates display when setting the Value property and using custom styles.
FIX	GraffitiWebTabBar now uses the Orientations enum and the Orientation property, replacing the old TabAlignment property.
FIX	GraffitiWebTimePicker now honors previously selected Meridiem values.
FIX	GraffitiWebTimePicker now properly triggers the Open event.
FIX	GraffitiWebToggle now uses the Styles enumeration for the VisualStyle property.
FIX	GraffitiWebToggle now properly sets the value when programmatically assigning a boolean value to the Value property rather than toggling the control's value state.
FIX	GraffitiWebTree once again updates tree items on check/uncheck/expand/collapse.
FIX	GraffitiWebTree once again fires ItemChecked/ItemUnchecked events.
NOTE	GraffitiWebDatePicker classes' DisableTouchKeyboard renamed to DisableKeyboard, as it now applies to all platforms.
NOTE	Heavy modifications to GraffitiWebToggle may require the removal and re-adding of control instances on Pages/Containers/Dialogs.
NOTE	GraffitiWebButton now uses the FaceStyles Enumeration instead of Constants for the FaceStyle property.
NOTE	GraffitiWebCurrencyField's Text property is now Read-Only. You should always use the Value property to set the value of the component.
NOTE	Fixed some bugs in the ccCalendarEditEvent demo container.
NOTE	GraffitiWebContextMenu's BindTo method renamed to AddMenu.
NOTE	GraffitiWebContextMenu methods now overloaded to support unattached menus.
NOTE	Heavy modifications to GraffitiWebCurrencyField may require the removal and re-adding of control instances on Pages/Containers/Dialogs.
NOTE	GraffitiWebCurrencyField updated to version 4.1.x of autoNumeric.js
NOTE	GraffitiWebTree now requires explicit setting of FontAwesome types. "fa-times" should now be "fas fa-times"
NOTE	GraffitiWebTree no longer has a global Checkboxes property. Checkbox visibility should be set on individual items. This was an extraneous option given the functionality.
NOTE	jQuery Touch Punch now implemented in conjunction with jQuery UI to make jqui components more touch friendly.
NOTE	GraffitiWebStorage bumped to 2.0 with rewrite to mimic Dictionary functionality and conventions, and further avoid potential JavaScript exceptions.

Type	Change
NOTE	Added Infinite Scrolling example code to GraffitiWebGrid's demo page. See <code>gwgDemo.ScrollPositionChanged</code> event handler.
NOTE	Loosened the tight restrictions on GraffitiWebSpeechRecog in order to include mobile variants of Chrome.
NOTE	GraffitiWebTabBar updated to version 1.3.3
NOTE	Bootstrap updated to version 4.0.0. Any class that uses Bootstrap components may need further modifications.
NOTE	GraffitiWebCursor updated to support FontAwesome5.
NOTE	All classes now use the "visibility" CSS property for visibility, this improves animation compatibility.
NOTE	As support for the SpeechRecognition API appears to have stalled on all major browsers except Chrome, GraffitiWebSpeechRecog is considered deprecated for unsupported platforms, and feature complete for where it works, and receive no further updates until that status changes.
NOTE	GraffitiWebButtonSegment uses the new GraffitiUpdateInterface, so you can directly modify children. This will be rolled out to other classes progressively.
NOTE	GraffitiWebGrid 2.0 uses the new GraffitiUpdateInterface, so you can directly modify children. This will be rolled out to other classes progressively.
NOTE	GraffitiWebToolBar uses the new GraffitiUpdateInterface, so you can directly modify children. This will be rolled out to other classes progressively.

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