

Release Information

Platform	Version	Release Date			
All	R45	May 29, 2022			
Target	New	Added	Fixed	Changed	Removed
Desktop	2	35	19	13	2
Web	5	21	27	2	4

Desktop

Type	Change
NEW	GraffitiMapView
NEW	GraffitiPDFViewer
ADDED	GraffitiCalendarRestriction
ADDED	GraffitiCalendar has a new DisableDay(day as DateTime) method.
ADDED	GraffitiCalendar has a new EnableDay(day as DateTime) method.
ADDED	GraffitiCalendar has a new HideDaysOfWeek(days() as Integer) method. (16780)
ADDED	GraffitiCalendar has a new HideDaysOfWeek(ParamArray days as Integer) method. (16780)
ADDED	GraffitiCalendar has a new RestrictEventDisplay as Boolean = False property. (16780)
ADDED	GraffitiCalendar has a new Restriction as GraffitiCalendarRestriction property.
ADDED	GraffitiCalendar has a new RestrictSelection as Boolean = False property. (16780)
ADDED	GraffitiCalendar has a new RestrictView as Boolean = False property. (16780)
ADDED	GraffitiCalendar has a new ViewEnd as DateTime property. This property is read-only.
ADDED	GraffitiCalendar has a new ViewStart as DateTime property. This property is read-only.
ADDED	GraffitiCalendar now uses Bootstrap light and dark themes by default. Custom themes are still jQuery UI.
ADDED	GraffitiCalendar now changes its appearance when the system is switched to Dark or Light color schemes.
ADDED	GraffitiGrid now supports new lines in cell editing by holding Control while pressing Enter.
ADDED	GraffitiHTMLtoPDF has a new BuildFailed event definition for when the FailureTimeout condition is met and the document has not been returned. (16789)
ADDED	GraffitiHTMLtoPDF has a new ImageFailed(byref url as String) as Boolean event definition for when an image is unable to be loaded. Modify URL with a BASE64 string representation of an image and return False to continue or Return True to cancel the build. (16789)
ADDED	GraffitiHTMLtoPDF has a new FailureTimeout property that will raise the BuildFailed event when the time (in milliseconds) has passed. (16789)
ADDED	GraffitiHTMLtoPDF has a new Scale as Double property that determines the output scale of the page images. Valid values are between 0 and 1. (16789)
ADDED	GraffitiListbox has a new HeaderBackgroundColorAt(index as Integer, assigns value as Color) method.
ADDED	GraffitiListbox has a new HeaderBackgroundColorAt(index as Integer) as Color function.
ADDED	GraffitiListbox has a new HeaderBackgroundColorSetAt(index as Integer) as Boolean method.
ADDED	GraffitiListbox has a new HeaderBackgroundColorHoverAt(index as Integer, assigns value as Color) method.
ADDED	GraffitiListbox has a new HeaderBackgroundColorHoverAt(index as Integer) as Color function.

Type	Change
ADDED	GraffitiListbox has a new HeaderBackgroundColorHoverSetAt(index as Integer) as Boolean function.
ADDED	GraffitiListbox has a new HeaderBoldAt(index as Integer, assigns value as Boolean) method.
ADDED	GraffitiListbox has a new HeaderBoldAt(index as Integer) as Boolean function.
ADDED	GraffitiListbox has a new HeaderItalicAt(index as Integer, assigns value as Boolean) method.
ADDED	GraffitiListbox has a new HeaderItalicAt(index as Integer) as Boolean method.
ADDED	GraffitiListbox has a new HeaderTextColorAt(index as Integer, assigns value as Color) method.
ADDED	GraffitiListbox has a new HeaderTextColorAt(index as Integer) as Color function.
ADDED	GraffitiListbox has a new HeaderTextColorSetAt(index as Integer) as Boolean function.
ADDED	GraffitiListbox has a new HeaderTextColorHoverAt(index as Integer, assigns value as Color) method.
ADDED	GraffitiListbox has a new HeaderTextColorHoverAt(index as Integer) as Color function.
ADDED	GraffitiListbox has a new HeaderTextColorHoverSetAt(index as Integer) as Boolean function.
ADDED	GraffitiListbox has a new HeaderUnderlineAt(index as Integer, assigns value as Boolean) method.
ADDED	GraffitiListbox has a new HeaderUnderlineAt(index as Integer) as Boolean method.
FIXED	GraffitiCalendar once again properly applies jQuery UI themes. Requires a fully-qualified URL - such as "https://cdnjs.cloudflare.com/ajax/libs/jqueryui/1.11.4/themes/cupertino/jquery-ui.min.css" - be passed to LoadTheme. (16780)
FIXED	GraffitiCalendar.DayClick event now passes the proper month in the parameter, previous was monthNumber - 1. (16780)
FIXED	GraffitiDateTimePicker should no longer throw an exception while painting days when the control is very small.
FIXED	GraffitiEditor no longer uses an excessive amount of CPU while idle when creating very large lists of toolbar options. (16776)
FIXED	GraffitiGrid's EditField is once again properly positioned when scrolled. (16830)
FIXED	GraffitiGrid's EditField will now properly size itself when the selected cell is partially outside the bottom of the viewport. (16830)
FIXED	GraffitiGrid should no longer encounter an OutOfBoundsException when sorting while a row contains nil value for the sort column.
FIXED	GraffitiGrid column resizing once again functions properly when scrolled horizontally.
FIXED	GraffitiGrid cells with embedded controls or containers no longer draw outside those embedded elements outside the Grid area.
FIXED	GraffitiGrid will now preemptively disable BreakOnExceptions in the Sort method to avoid breaks on sorting of objects, which are handled internally.
FIXED	GraffitiGrid should no longer leave empty space where rows should be drawn under some conditions due to scroll offsets.
FIXED	GraffitiGrid should once again scroll vertically to display all rows.
FIXED	GraffitiGrid once again properly selects rows when holding Shift and the first selected row has a higher index than the subsequently selected row. (16970)
FIXED	GraffitiGrid now preserves selection on right-click. (16970)
FIXED	GraffitiGrid's ScrollIntoView method should now ensure that the entire row is visible.
FIXED	GraffitiHTMLtoPDF will now attempt to load local and remote files by URL and stream them directly to BASE64 for rendering. (16789)

Type	Change
FIXED	GraffitiHTMLtoPDF should no longer simply fail to output anything when image errors are encountered. Instead, these nodes may be removed from the resulting document. (16789)
FIXED	GraffitiListbox once again properly changes border drawing when setting the Border property. (16825)
FIXED	GraffitiSyntaxEditor no longer raises far more SelChange events than necessary.
CHANGED	GraffitiCalendar's CalendarView property has been renamed to "View".
CHANGED	GraffitiGrid no longer requires supplying scrollbars to the ScrollbarHorizontal and ScrollbarVertical properties programmatically at runtime.
CHANGED	GraffitiGrid no longer requires supplying a DesktopTextField to the EditField property. This is now added programmatically at runtime.
CHANGED	GraffitiGrid.EditField is now a DesktopTextArea.
CHANGED	GraffitiGrid now uses Shift+MouseWheel for horizontal scroll.
CHANGED	GraffitiPDFDocument.OutputQuality has moved to the GraffitiHTMLtoPDF class.
CHANGED	GraffitiSyntaxEditor.CanUndo now synchronously reads data rather than relying solely on timed caching.
CHANGED	GraffitiSyntaxEditor.CanRedo now synchronously reads data rather than relying solely on timed caching.
CHANGED	GraffitiSyntaxEditor.IsDirty now synchronously reads data rather than relying solely on timed caching.
CHANGED	GraffitiSyntaxEditor.SelStart now synchronously reads data rather than relying solely on timed caching.
CHANGED	GraffitiSyntaxEditor.SelLength now synchronously reads data rather than relying solely on timed caching.
CHANGED	GraffitiSyntaxEditor.SelText now synchronously reads data rather than relying solely on timed caching.
CHANGED	GraffitiSyntaxEditor.Text now synchronously reads data rather than relying solely on timed caching.
REMOVED	GraffitiGrid.ScrollbarHorizontal property.
REMOVED	GraffitiGrid.ScrollbarVertical property.
NOTE	GraffitiCalendar version updated to 3.10.0.
NOTE	GraffitiCalendar has been updated to use DateTime. Users are encouraged, but not required due to Xojo's built-in conversion, to follow suit.
NOTE	GraffitiCalendar event parameters have changed significantly. Some no longer have parameters they once did, and corresponding properties should be used. User code updates will be necessary.
NOTE	GraffitiDesktopControl has been cleaned up quite a bit to remove code and members that are not used since the addition of built-in JavaScript communication.

Web

Type	Change
NEW	GraffitiMap.Geocoder Module
NEW	GraffitiMap.Geocoder.Result
NEW	GraffitiMap.Overlays Module
NEW	GraffitiMap.Overlays.Image Class
NEW	GraffitiPDFViewer
ADDED	GraffitiCalendar has a new Print() method. (16946)

Type	Change
ADDED	GraffitiDateTimePicker variants Locales enumerations now have ES and IT values for Spanish and Italian. (16882)
ADDED	GraffitiDrag's Drop event has a new data as JSONItem parameter. Currently this is used for passing row IDs when used with GraffitiGrid and GraffitiTree.
ADDED	GraffitiKanbanItem has a new constructor that accepts a WebContainer parameter: Constructor(title as String, container as WebContainer) (16865)
ADDED	GraffitiKanbanItem has a new IndicatorContainer as WebUIControl.Indicators property. (16865)
ADDED	GraffitiMap.Directions.Route has a new ResolveNames as Boolean = False property. When True, text supplied in the Location property will be decoded by the Google Geocoder API automatically when the RouteChanged event is raised (which also occurs immediately upon display of the route). (16727)
ADDED	GraffitiMapView.AddImageOverlay(overlay as GraffitiMap.Overlays.Image)
ADDED	GraffitiMapView.ImageOverlayAt(index as Integer) as GraffitiMap.Overlays.Image
ADDED	GraffitiMapView.LastImageOverlayIndex() as Integer
ADDED	GraffitiMapView.RemoveAllImageOverlays()
ADDED	GraffitiMapView.RemoveImageOverlay(overlay as GraffitiMap.Overlays.Image)
ADDED	GraffitiMenu has a new AddMenu(theControl as WebListBox, theMenu as GraffitiMenuItem, AutoHide as Boolean = False) method for contextual actions on WebListBox only when there are selected rows. (16889)
ADDED	GraffitiPopupMenu has a new AddItems(items() as GraffitiPopupMenuItem) method for adding multiple items from an array.
ADDED	GraffitiPopupMenu has a new PopupButtonText as String property. (16862)
ADDED	GraffitiPopupMenu has a new PopupButtonIndicator as WebUIControl.Indicators property. (16862)
ADDED	GraffitiPopupMenu has a new PopupButtonStyle as GraffitiStyle property. (16862)
ADDED	GraffitiPopupMenu has a new PopupButtonPressed event. (16862)
ADDED	GraffitiTimeline has a new Print() method. (16946)
ADDED	GraffitiTree.FindByUUID(uuid as String, inItems() as GraffitiTreeItem)
ADDED	GraffitiWall has a new AutoHeight as Boolean property. When True, the wall will size itself to fit all panels and raise the Resized event with the updated dimensions. The height of the control should not be modified by using the Height property. (16925)
ADDED	GraffitiWall has a new Resized(width as Integer, height as Integer) property that is raised when the Wall changes dimensions in the viewport. Note that these values will not match the Xojo object's Width and Height properties, and are used for positioning other elements below the Wall. (16925)
FIXED	GraffitiButton once again properly applies the BaseStyle property. (16900)
FIXED	GraffitiButton once again properly applies the TextStyle property. (16900)
FIXED	GraffitiButton caption no longer improperly word wraps when full caption should fit the display area. (16960)
FIXED	GraffitiDateTimePickerSingle now properly handles setting Nil value to clear the display. (16882)
FIXED	GraffitiDateTimePickerSingle now properly sets Locale from the inspector. (16884)
FIXED	GraffitiDateTimePickerSingle should no longer display "Invalid Date" in the field under some circumstances when the value is cleared. (16882)
FIXED	GraffitiDateTimePickerSingle's popup header should now be properly localized. (16882)
FIXED	GraffitiDateTimePickerMultiple now properly handles setting Nil value to clear the display. (16882)
FIXED	GraffitiDateTimePickerMultiple now properly sets Locale from the inspector. (16884)

Type	Change
FIXED	GraffitiDateTimePickerRange now properly handles setting Nil value to clear the display. (16882)
FIXED	GraffitiDateTimePickerRange now properly sets Locale from the inspector. (16884)
FIXED	GraffitiDateTimePickerRange should now properly fire the ValueChanged event under all scenarios. (16855)
FIXED	GraffitiDrag will no longer initiate drag operations on WebListBoxes or GraffitiGrids that have no selection.
FIXED	GraffitiGrid once again displays GraffitiGridColumn.ContextMenus on contextual actions. (16827)
FIXED	GraffitiGrid column sort indicators no longer either never appear or appear behind the header button. (16843)
FIXED	GraffitiGrid no longer removes default CSS classes when supplying GraffitiStyles to the Style* properties. Override individual CSS properties as needed. (16872)
FIXED	GraffitiGrid once again honors AddRow calls when LockUpdate = True. (16890)
FIXED	GraffitiGrid can no longer enter a state where the appropriate number of rows are not displayed for the height when using AddRow. (16890)
FIXED	GraffitiMapView.RemoveRoute now works as expected.
FIXED	GraffitiMenu now properly suppresses the native context menu and repositions the menu on Windows upon subsequent right clicks. (16843)
FIXED	GraffitiMenu separators are once again visible.
FIXED	GraffitiPagination no longer breaks the built-in Pagination control.
FIXED	GraffitiPopupMenu no longer fails to display FontAwesome icons under very specific conditions.
FIXED	GraffitiPopupMenuItem's Constructor no longer defaults the Enabled property to False. (16746, 16747)
FIXED	GraffitiStyle once again supports multiple states rather than only the first state created.
FIXED	GraffitiTree no longer loses SelectedItem value when focus is lost.
FIXED	GraffitiUploader now fails more gracefully on IOExceptions by streaming the uploaded file data to the Data property of the GraffitiWebFile object. In UploadComplete, users should check to see if File.Data is empty. If not, the user will need to handle that BASE64 data. (16647)
CHANGED	GraffitiUploader now uses randomized file names when writing files to the filesystem. The GraffitiWebFile.Name property retains the original name. (16647)
CHANGED	GraffitiUploader now writes files to the temporary directory when debugging, rather than the ApplicationData folder. (16647)
NOTE	GraffitiPopupMenuItem Constructor has been refactored to simplify. See documentation for updated Constructor signatures.
REMOVED	GraffitiDatePicker
REMOVED	GraffitiHTML editor
REMOVED	GraffitiPopupMenu.FindItem(itemIndex as Integer) as GraffitiPopupMenuItem. Use Item(index as Integer) As GraffitiPopupMenuItem
REMOVED	GraffitiTimePicker

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