



Xojo Calendar and Time Chooser

User Documentation

v1.01

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Project Information

Development Model:	Open Source
Version Control Repository:	GitHub
Repository Type:	Public
Link to Repository:	https://github.com/mikecotrone/CalendarTimeChooser
Project File Format:	"Xojo Project (xojo_project)"
License:	BSD-3 Clause
Affiliation:	This project is authored and maintained by Intelligent Visibility, Inc.
Author:	Mike Cotrone
Contributors:	Jim McKay



Project Purpose (Please Read)

The purpose of this project was to create a professional “Calendar and Time Chooser” control for my Xojo™ made applications. I was pleasantly surprised to see the volume of participation on this topic on the Xojo™ Forums to where I believe this topic set a record (unofficial) for the most views.

Special Thanks to Jim McKay who made significant contributions to the code base specifically around the clock face hands and OOP restructuring. This interest and contribution help has driven me to expand this project several times.

What this Project IS:

This project is a multi featured Calendar and Time Chooser control tool. The following features are available to you.

General Options:

- Show “Calendar Chooser Only”, “Show Time Chooser Only”, “Show Both Choosers”
- Change background color of this tool

Clock Options:

- 12 hour or 24 hour time formats
- Multiple clock faces to choose from
- Change color of clock hands

Calendar Options:

- Change “Week Start Day”
- Include/Exclude next/previous months on calendar
- Localizations: English, Afrikaans, Dutch, French, German, Italian, Polish, Spanish, Swedish
- Allow multiple date selections

What this Project ISNT:

I feel that communicating what this project is and is not is key setting the expectations.

- This project is not a clock nor a countdown timer
- It is not calendar software i.e. Outlook or Thunderbird
- This project does not employ SQLite or any other databases for data storage
- This project isn’t designed to be “parted” out as the options will dictate how the tool operates (more detail later in this document)



Quick Start in 14 Steps

Download Project, Copy folders, and Enable GDI

1. Download the project at <https://github.com/mikecotrone/CalendarTimeChooser>
2. Open “CalendarTimeChooser.xojo_project” with the Xojo IDE
3. Copy all Folders that begin with “1 – 5” to your destination project (*Note: You probably do not want the “Demo Window” folder for your destination project*)

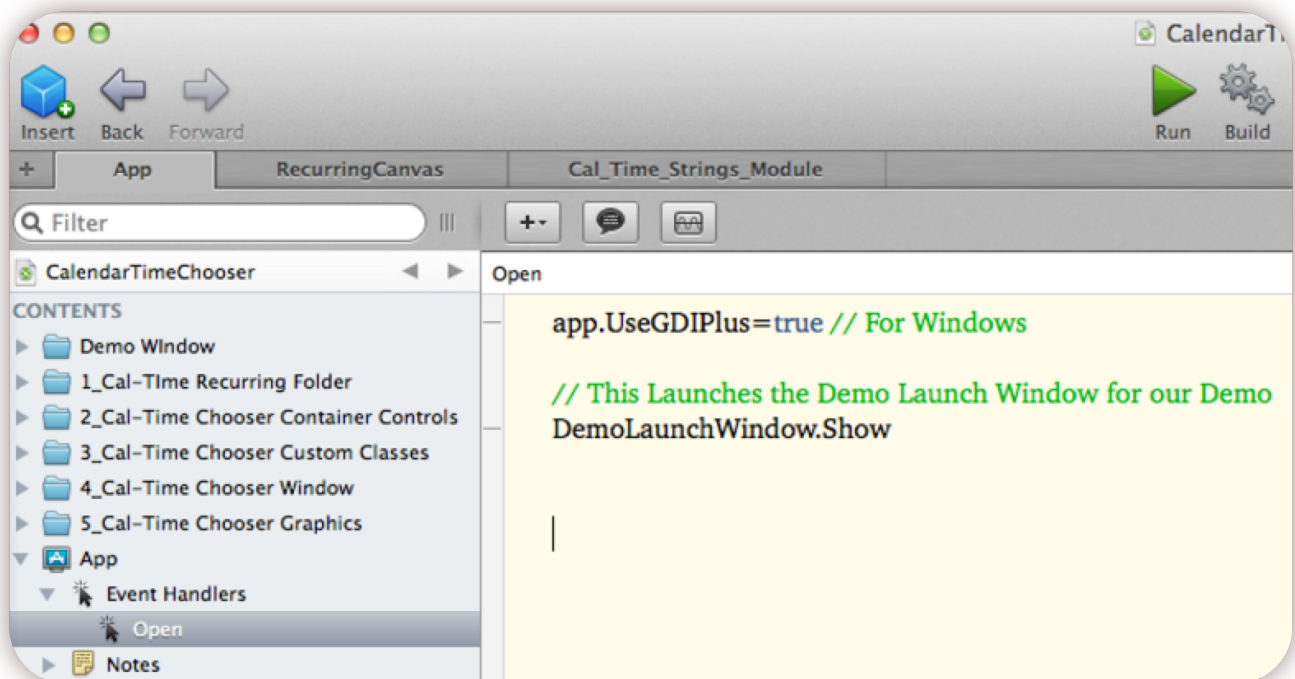


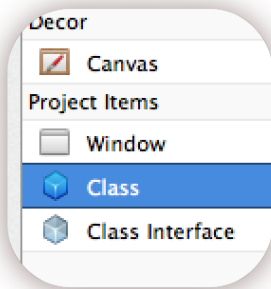
Figure 1. Depicts the six (6) folders that comprise the “Calendar and Time Chooser” project

4. Enable “GDI Plus” in your destination project (*for example: copy “app.UseGDIPlus=True” to your destination project app.open event*)

Create instantiation of Options and DateTimeWindow

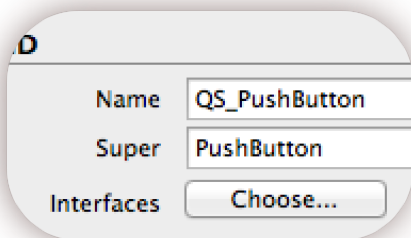
There are many ways to accomplish this step, but for this quick start example I will use a “Push Button” control that will be responsible for instantiating the “DateTimeWindow” and it’s options.

5. From the Xojo IDE drag a new “Class” to your project

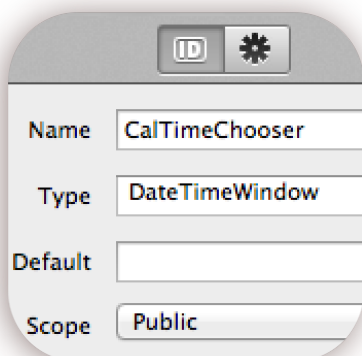


6. Name your new class “QS_PushButton”

7. Change it’s super class to “PushButton”

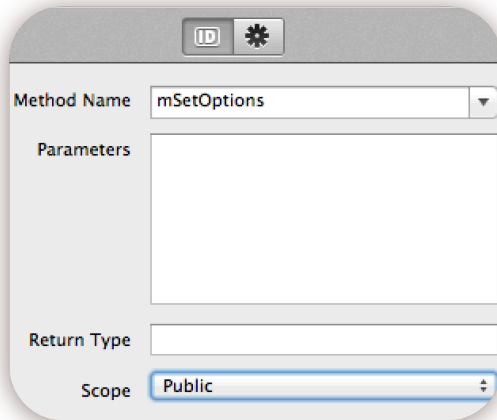


8. Add a new “Property” to the “QS_PushButton” and name it “CalTimeChooser”



9. Change the “CalTimeChooser” property type to: DateTimeWindow

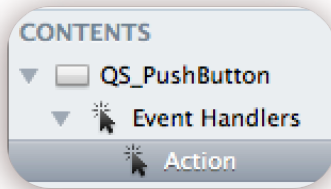
10. Add a method named “mSetOptions” to the “QS_PushButton”



11. Add the following Code to the “mSetOptions” Method based on how you want this tool to behave in your project. (Detailed explanation of each option can be found at [\[link\]](#))

```
// Chooser Type:
CalTimeChooser.VisiblePickers=Date_Time_Container.PickerElements.CalendarAndClock
// Chooser Window Back Color
CalTimeChooser.Date_Time_Container1.BackColor = RGB(239,239,239)
// Chooser Time Format
CalTimeChooser.Date_Time_Container1.Time_Container1.TimeMode = 12
// Chooser Clock Face Type
CalTimeChooser.ClockFaceType = Date_Time_Container.ClockFaceType.Chrome
// Chooser Clock Hands Type
CalTimeChooser.UseGraphicalClockHands=True
// Chooser Week Start
CalTimeChooser.WeekStartsOnMonday = False
// Chooser Calendar to include previous/next days on calendar
CalTimeChooser.IncludePrevNextMonthDays = True
// Calendar Localization
CalTimeChooser.LocalizationInt = 0 // 0-English
// Allow User to Select Multiple Calendar Days
CalTimeChooser.AllowMultipleCalendarSelections = False
// Calendar Start Year:: This date integer is your calendar's start date
Dim CurrentYear as New Date
CalTimeChooser.Date_Time_Container1.Calendar_Container1.Calendar1.StartYear = 1975
// Calendar End Year:: This date integer is your calendar's end date
CalTimeChooser.Date_Time_Container1.Calendar_Container1.Calendar1.EndYear = 2052
```

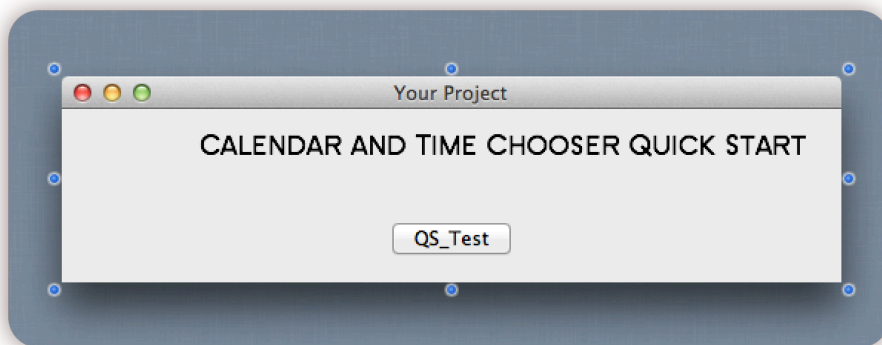
12. Add the “Action” event to the “QS_PushButton”



13. In the “Action” event add the following code:

```
CalTimeChooser = New DateTimeWindow  
mSetOptions
```

14. Drag your newly created custom pushbutton control “QS_PushButton” onto a Window in your destination project



Quick start is now complete! Run your project in the IDE to see your project.



Project Option Definitions

This section provides details for the “Calendar and Time” options that were referenced on page (7) under the quick start example.

General Options

Calendar and Time Chooser Layout Option

Description:	This option allows you to set which chooser is visible. <i>Choose <u>one</u> option</i>
Choice #1:	CalTimeChooser.VisiblePickers=Date_Time_Container.PickerElements. CalendarAndClock
Choice #2:	CalTimeChooser.VisiblePickers=Date_Time_Container.PickerElements. CalendarOnly
Choice #3:	CalTimeChooser.VisiblePickers=Date_Time_Container.PickerElements. ClockOnly

Change Back Color of Chooser Window

Description:	This option will change the back color of the chooser (all choosers). <i>Replace the RGB color with your desired color.</i>
Option:	CalTimeChooser.Date_Time_Container1.BackColor = RGB(239,239,239)

Clock / Time Options

Time Format

Description:	This option allows you to set which time format you would like. <i>Choose <u>one</u> time format</i>
Option 1:	CalTimeChooser.Date_Time_Container1.Time_Container1.TimeMode = 12
Option 2:	CalTimeChooser.Date_Time_Container1.Time_Container1.TimeMode = 24

Clock Face Type

Description:	This option allows you to set which clock face is displayed graphically <i>Choose <u>one</u> option</i>
Option 1:	CalTimeChooser.ClockFaceType = Date_Time_Container.ClockFaceType.Chrome
Option 2:	CalTimeChooser.ClockFaceType = Date_Time_Container.ClockFaceType.Antique
Option 3:	CalTimeChooser.ClockFaceType = Date_Time_Container.ClockFaceType.GoogleStyle
Option 4:	CalTimeChooser.ClockFaceType = Date_Time_Container.ClockFaceType.Dynamic_12hr
Option 5:	CalTimeChooser.ClockFaceType = Date_Time_Container.ClockFaceType.Modern
Option 6:	CalTimeChooser.ClockFaceType = Date_Time_Container.ClockFaceType.Roman
Option 7:	CalTimeChooser.ClockFaceType = Date_Time_Container.ClockFaceType.Standard

Choose Clock Hand Type

Description:	This option allows you to choose between the graphical clock hands or plain lines. <i>Choose <u>True</u> or <u>False</u></i>
Option:	CalTimeChooser.UseGraphicalClockHands=True

Choose Clock Hand Color

Description:	This option allows you to the color of the minute and hour clock hands (second hand is always red)
Option:	CalTimeChooser.Date_Time_Container1.ClockHandColor = RGB(120,20,200)

Calendar Options

Week Begins on Monday

Description:	If False the week begins on Sunday If True the week begins on Monday
Option 1:	CalTimeChooser.WeekStartsOnMonday = False
Option 2:	CalTimeChooser.WeekStartsOnMonday = True

Include / Exclude Previous/Next Months on Calendar View

Description:	This option enables or disables displaying the next and previous month days on the calendar.
Option 1:	CalTimeChooser.IncludePrevNextMonthDays = True
Option 2:	CalTimeChooser.IncludePrevNextMonthDays = False

Localization

Description:	Choose the localization Integer that you desire.
English:	CalTimeChooser.LocalizationInt = 0
French:	CalTimeChooser.LocalizationInt = 1
Swedish:	CalTimeChooser.LocalizationInt = 2
Italian:	CalTimeChooser.LocalizationInt = 3
Spanish:	CalTimeChooser.LocalizationInt = 4
Dutch:	CalTimeChooser.LocalizationInt = 5
German:	CalTimeChooser.LocalizationInt = 6
Afrikaans:	CalTimeChooser.LocalizationInt = 7
Polish:	CalTimeChooser.LocalizationInt = 8

Allow Multiple Calendar Date Selections

Description:	If True then “Single” selection allowed only If False then “Multiple” selection allowed
Option 1:	CalTimeChooser.AllowMultipleCalendarSelections = True
Option 2:	CalTimeChooser.AllowMultipleCalendarSelections = False

Calendar Start Year

Description:	Enter the “Start” year integer that you would like the calendar to allow user selection.
Option:	CalTimeChooser.Date_Time_Container1.Calendar_Container1.Calendar1.StartYear = 1975

Calendar End Year

Description:	Enter the “End” year integer that you would like the calendar to allow user selection.
Option:	CalTimeChooser.Date_Time_Container1.Calendar_Container1.Calendar1.EndYear = 2175