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Index 15
The `goocalendar` module supplies a calendar widget drawn with GooCanvas that can display a month view and a week view. It also supplies classes to manage events you can add to the calendar.
A Calendar is a calendar widget using GooCanvas that can display a month view and a week view. It holds an EventStore which contains events displayed in the calendar.

```python
class goocalendar.Calendar([event_store, view[, time_format[, firstweekday ]]])
```

Creates a Calendar object. All arguments are optional. event_store should be an EventStore. view should be either ‘month’ or ‘week’. Default value is ‘month’. time_format determines the format of displayed time in the calendar. Default value is ‘%H:%M’. firstweekday is a constant of module calendar specifying the first day of the week. Default value is calendar.SUNDAY.

Instance attributes:

- goocalendar.event_store: EventStore currently plugged. Setting a new event store will automatically redraw the canvas to display the events of the new event store.
- goocalendar.view: The current view: ‘month’ or ‘week’.
- goocalendar.selected_date: datetime.date which determines the current selected day in the calendar.
- goocalendar.firstweekday: Determines the first day of the week (0 is Monday).

Instance methods:

- goocalendar.select(date): Select the given date in the calendar. Date should be a datetime.date.
- goocalendar.previous_page(): Go to the previous page of the calendar.
- goocalendar.next_page(): Go to the next page of the calendar.
- goocalendar.set_view(view): Change calendar’s view. Possible values: ‘month’ or ‘week’.
**GooCalendar Documentation, Release 0.7.1**

```python
goocalendar.draw_events()  # Redraws events.
goocalendar.update()       # Redraws calendar and events.

Instance signals:

event-pressed

The `event-pressed` signal is emitted when an Event is pressed with the button 1 of the mouse.

```python
def callback(calendar, event, user_param1, ...)
    calendar The Calendar that received the signal.
    event The pressed Event object.
    user_param1 the first user parameter (if any) specified with the connect() method.
    ... additional user parameters (if any).
```

event-activated

The `event-activated` signal is emitted when an Event is double-clicked with the button 1 of the mouse.

```python
def callback(calendar, event, user_param1, ...)
    calendar The Calendar that received the signal.
    event The double-clicked Event object.
    user_param1 the first user parameter (if any) specified with the connect() method.
    ... additional user parameters (if any).
```

event-released

The `event-released` signal is emitted when the button 1 of the mouse is released on an event.

```python
def callback(calendar, event, user_param1, ...)
    calendar The Calendar that received the signal.
    event The double-clicked Event object.
    user_param1 the first user parameter (if any) specified with the connect() method.
    ... additional user parameters (if any).
```

day-pressed

The `day-pressed` signal is emitted when a day is pressed with the mouse button 1.

```python
def callback(calendar, date, user_param1, ...)
    calendar The Calendar that received the signal.
    date datetime.date corresponding to the day pressed.
    user_param1 the first user parameter (if any) specified with the connect() method.
    ... additional user parameters (if any).
```

day-activated

The `day-activated` signal is emitted when the day is double-clicked with the mouse button 1.

```python
def callback(calendar, date, user_param1, ...)
```
calendar The Calendar that received the signal.

date datetime.date corresponding to the activated day.

user_param1 the first user parameter (if any) specified with the connect() method
... additional user parameters (if any).

day-selected
The day-selected signal is emitted when the selected day changes.

def callback(calendar, date, user_param1, ...)

calendar The Calendar that received the signal.
date datetime.date corresponding to the new selected day.

user_param1 the first user parameter (if any) specified with the connect() method.
... additional user parameters (if any).

view-changed
The view-changed signal is emitted when the view changes

def callback(calendar, view, user_param1, ...)

calendar The Calendar that received the signal.
view ‘month’ or ‘week’

user_param1 the first user parameter (if any) specified with the connect() method.
... additional user parameters (if any).

page-changed
The page-changed signal is emitted when the page currently showed in the calendar is changed.

def callback(calendar, date, user_param1, ...)

calendar The Calendar that received the signal.
date datetime.date corresponding to the selected day in the calendar.

user_param1 the first user parameter (if any) specified with the connect() method.
... additional user parameters (if any).

Instance properties:
text-color
The color of the text. Default: #2E3634

inactive-text-color
The color of the inactive text. Default: #8B8F8E

border-color
The color of border. Default: #D2D0D2

selected-border-color
The color of selected border. Default: #5EC590

inactive-border-color
The color of inactive border. Default: #E8E7E8
body-color

The color of the body. Default: white

today-body-color

The color of the today body. Default: ivory

font

The attributes specifying which font to use.
EventStore Objects

An EventStore is the store of Event that can be plugged to a Calendar.

class googocalendar.EventStore
    There is no arguments for this class.

Instance methods:

goocalendar.add(event)
    Add the given event to the event store.

goocalendar.remove(event)
    Remove the given event from the event store.

goocalendar.clear()
    Remove all events from the event store and restore it to initial state.

goocalendar.get_events(start, end)
    Returns a list of all events that intersect with the given start and end datetime. If no start time nor end time are given, the method returns a list containing all events.

Instance signals:

event-added
    The event-added signal is emitted when an Event is added to the event store.
    def callback(event_store, event, user_param1, ...)
    event_store The EventStore that received the signal.
    event The added Event.
    user_param1 the first user parameter (if any) specified with the connect() method.
    ... additional user parameters (if any).

event-removed
    The event-removed signal is emitted when an Event is removed from the event store.
    def callback(event_store, event, user_param1, ...)

**event_store**  The *EventStore* that received the signal.

**event**  The removed *Event*.

**user_param1**  the first user parameter (if any) specified with the connect() method.

...  additional user parameters (if any).

**events-cleared**

The *events-cleared* signal is emitted when the event store is cleared.

def callback(event_store, user_param1, ...)

**event_store**  The *EventStore* that received the signal.

**user_param1**  the first user parameter (if any) specified with the connect() method.

...  additional user parameters (if any).
An Event represents an event in a Calendar.

class goocalendar.Event (caption, start[, end[, all_day[, text_color[, bg_color[, editable ]]]]])

caption argument is mandatory and will be the string displayed on the event. start argument is mandatory and determines the starting time of the event. It should be a datetime. All other arguments are optional. end argument may be a datetime, all_day a boolean value. An event will be considered as all day event if no end argument is supplied. text_color and bg_color arguments are supposed to be color strings. editable determines if the event can be modified.

Instance attributes:

goocalendar.id
    Unique identification integer.

goocalendar.caption
    Caption to display on the event in the calendar.

goocalendar.start
datetime determining event start time.

goocalendar.end
datetime determining event end time.

goocalendar.all_day
    Boolean determining if the day is an all day event or a normal event.

goocalendar.text_color
    String determining caption text color.

goocalendar.bg_color
    String determining background color.

goocalendar.editable
    Boolean determining if the event can be modified. Default value is True.

goocalendar.multidays
    Boolean property determining if the event is longer than one day.
Supported operations:

All comparisons operations are supported.

event1 is considered less than event2 if it starts before event2. If two events start at the same time, the event which ends the first one is considered smaller.

Example usage:

```python
>>> import datetime
>>> import goocalendar
>>> event_store = goocalendar.EventStore()
>>> calendar = goocalendar.Calendar(event_store)
>>> event = goocalendar.Event('Event number 1', 
...    datetime.datetime(2012, 8, 21, 14),
...    datetime.datetime(2012, 8, 21, 17),
...    bg_color='lightgreen')
>>> event_store.add(event)
```
CHAPTER 4

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