



Xojo GridMap Guide

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Introduction

The GridMap component for Xojo Desktop development platform is a tool for area management. It is possible to set the size of the area in rows and columns. This will create a grid divided into cells, each with its properties. This will allow you to use the component for any situation, such as: beaches, land, campsites, parking lots, etc.

Features

After inserting the component into the whole window it is possible, via code, to change the characteristics. It will be possible to choose the size of the grid, Columns x Rows. For each cell it will be possible to set the color, the tag, and other properties. Clicking on a cell will trigger an event with parameters that will report: the position of the Cell, and the Cell object from which it is possible to trace all the properties.



Properties

- **TotalCellsX** (Integer): Get/Set the columns number of the Grid.
- **TotalCellsY** (Integer): Get/Set the rows number of the Grid.
- **CellWidth** (Integer): Get/Set the cell width.
- **CellHeight** (Integer): Get/Set the cell height.
- **MapBackColor** (Color): Get/Set the back color of the Grid.
- **MapBorderColor** (Color): Get/Set the border color of the Grid.
- **BackgroundMap** (String): Get/Set the background map by a string JSON formatted. Check the example to know JSNO format.
- **DraggingActive** (Boolean): Get/Set if the dragging event is active.
- **ViewCellsTitle** (Boolean): Get/Set if the cells title is visible.
- **CellsTitleAlign** (enumTitleAlign): Get/Set the cells title align.
- **TextFont** (String): Get/Set the font name of the Cells.
- **TextSize** (Single): Get/Set the font size of the Cells.
- **TextBold** (Boolean): Get/Set the font bold of the Cells.
- **TextItalic** (Boolean): Get/Set the font italic of the Cells.
- **TextUnderline** (Boolean): Get/Set the font underline of the Cells.



Methods

- **SetCell**(*newID As Variant, CellX As Integer, CellY As Integer, Optional newTitle As String = "", Optional newData As Variant, Optional newCellBackColor As Color = &cFFFFFF, Optional newForeBackColor As Color = &c00000066, Optional newViewtitle As Boolean = True, Optional newTitleAlign*)

Whit this method you can create a Cell object in the Grid by some parameter (ID,X,Y,ecc).

- **SetCellObj**(*newCell As clsPsysCell*)

Whit this method you can create a Cell object in the Grid by one object class clsPsysCell.

- **RemoveCell**(*CellX as Integer, CellY as Integer*)

Whit this method you can remove a Cell with X,Y position.

- **RemoveAllCells**()

With this method you can remove all Cells in the Grid.

- **GetCell**(*CellX as Integer, CellY as Integer*) *As clsPsysCell*

With this method you can get a Cell object from the Grid by X,Y position.

- **GetCellsCount**() *As Integer*

With this method you can get total cells number.

- **DuplicateCell**(*OldCellX As Integer, OldCellY As Integer, NewID As Variant, NewCellX As Integer, NewCellY As Integer*) *As clsPsysCell*

With this method you can duplicate a Cell in other cell by X,Y position.

- **Redraw**()

With this method you can Redraw the Grid.



Events

- **Open()**
- **CellClick**(*X As Integer, Y As Integer, CellX As Integer, CellY As Integer, objCell as clsPsysCell*)
- **CellDoubleClick**(*X As Integer, Y As Integer, CellX As Integer, CellY As Integer, objCell as clsPsysCell*)
- **Dragging**(*X As Integer, Y As Integer, CellX As Integer, CellY As Integer, objCell as clsPsysCell*)

Cell Object

Each cell is a object clsPsysCell type. You can set these properties and use these methods:

Properties:

- **ID** (*Variant*): Get/Set a Variant value.
- **X** (*Integer*): Get/Set the X position in the Grid.
- **Y** (*Integer*): Get/Set the Y position in the Grid.
- **Title** (*String*): Get/Set the cell Title, it appears in the Grid.
- **Data** (*Variant*): Get/Set a Variant value.
- **ViewTitle** (*Boolean*): Get/Set if the Title appears in the Grid.
- **CellBackColor** (*Color*): Get/Set the cell BackColor.
- **CellForeColor** (*Color*): Get/Set the cell ForeColor.

Methods:

- **Clone()**

You can clone the cell object.

Example

You can check the example project attached.

How to use it

For use Xojo GridMap in your application copy GridMap folder present in the example and paste in your project.