The SymbolEditor Handbook

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Contents

Abstract

SymbolEditor is an application to allow the creation and editing of symbol libraries for the KXStitch application.

Chapter 1

Introduction

SymbolEditor is used to create cross stitch symbols for the KXStitch application. Originally KXStitch relied on standard character fonts to supply these symbols, but differences in user languages and the quality of the fonts available along with the alignment of the characters and the limited number available has driven the need to create a dedicated symbol set.

The symbol set will be stored in a file and several files can be created depending on the users needs, for example having a Halloween symbol set for Halloween themed patterns.

Each of the files will contain a series of symbols which will be displayed in the symbol library tab. Editing of existing symbols can be done by clicking the entry in the library which will populate the editor with this symbol. Alternatively new symbols can be created and added to the library.

Please report any problems or feature requests to the SymbolEditor KDE mailing list symboleditor@kde.org, you can subscribe here or the KDE bug tracking system at http://bugs.kde.org/ .

The SymbolEditor home page is at http://userbase.kde.org/SymbolEditor

Chapter 2

The User Interface

2.1 The SymbolEditor Main Window

The main window consists of a tabbed widget containing the symbol editor and a library view. There is a menu bar and several tool bars containing standard actions, editing tools and rendering options. The status bar gives prompts for using the various tools.

2.1.1 Editor Window
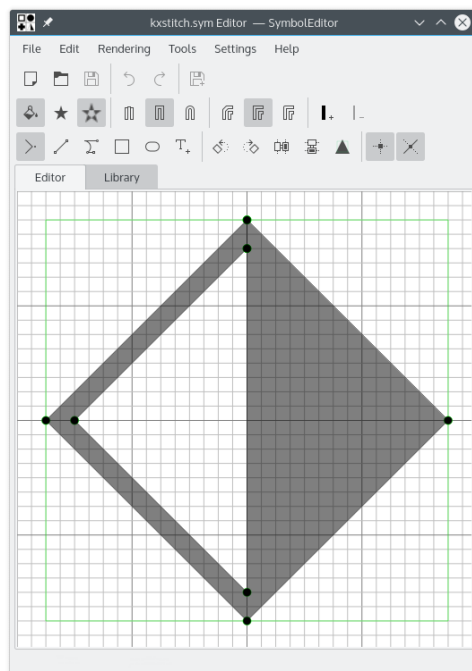
The Editor window allows editing of a symbol using the available tools. It consists of a grid providing snap points and shows a preferred size guide which allows symbols to be created to a consistent size. The size of the grid, the number of elements and the preferred size guide are all configurable.

The editor provides guidelines for positioning points relative to existing points. The guides are positioned on the horizontal, vertical and diagonal vectors from an existing point and also on a circular reference around the center of the grid.
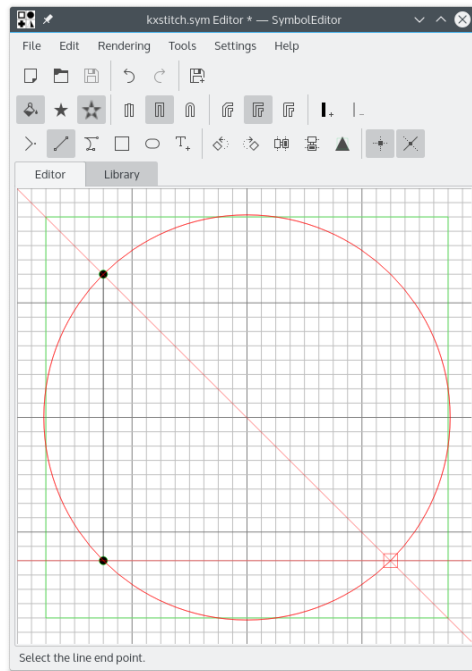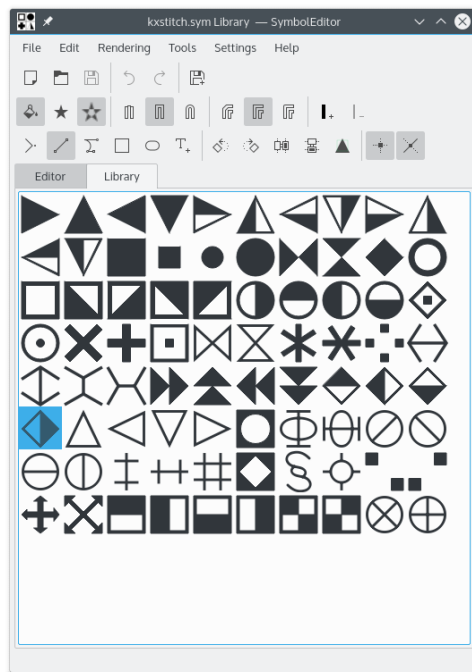
2.1.2 Library Window

The library window shows representations of the symbols contained in the library. The symbol currently being edited is shown highlighted. Selecting a symbol will open it in the editor so that it can be modified.

It is possible to open several instances of the SymbolEditor application and copy symbols from one library to another using drag and drop. Ensure that both library windows are visible, then click and drag the required symbol from one library window to the other. The symbol will then be appended to the target library.

Chapter 3

Symbols

Symbols are created as QPainterPath objects with additional information defining attributes of the path. A QPainterPath is made up of sub paths such as rectangles, ellipses or chains of lines and bezier curves. The paths may intersect each other forming complex shapes.

The symbol may be filled using either the winding option which will fill the entire path, or the odd even option which fill alternate sections of the path.

If the path is not filled, the outline will have a defined line width, end cap type and line join type.

See the QPainterPath documentation for more detail.

Chapter 4

Command Reference

4.1 SymbolEditor Menus

4.1.1 The File Menu

New (Ctrl-N)

Creates a new library

Open (Ctrl-O)

Opens an existing library

Open Recent

Open a recently used library

Save (Ctrl-S)

Saves the library

Save As (Ctrl-Shift-S)

Saves the library under a new name

Save Symbol

Save the symbol being edited

If the symbol being edited was selected from the library, saving will update that symbol. If it is a new symbol, it will be appended to the library and subsequent saves will append another new symbol to the library.

Save Symbol as New

Save the symbol being edited as a new symbol

When a symbol is saved as new it will be appended to the library regardless of it having originally been selected from the library for editing. Subsequent saves will append another new symbol to the library.

Import Library

Import a library appending the contained symbols into the current library

Close (Ctrl-W)

Close the library

Quit (Ctrl-Q)

Quits SymbolEditor

4.1.2 The Edit Menu

SymbolEditor has the common KDE **Edit** menu items, for more information read the sections about the Edit Menu of the KDE Fundamentals.

4.1.3 The Rendering Menu and Toolbar

Fill Path
Enable filling of the path

Winding Fill
Select the winding fill method

Odd Even Fill
Select the odd even fill method

Flat Cap
Select the flat cap line end type

Square Cap
Select the square cap line end type

Round Cap
Select the round cap line end type

Bevel Join
Select the bevel line join type

Miter Join
Select the miter line join type

Round Join
Select the round line join type

Increase Line Width
Increase the path line width

Decrease Line Width
Decrease the path line width

4.1.4 The Tools Menu and Toolbar

A number of tools are available to aid the design of the symbols. The symbols are composed of a series of sub paths and each sub path is composed of a move to the start position (this defaults to 0,0 for new symbols) followed by lines and curves. The curves are cubic splines having a start, an end and two control points defining the curve. There are convenience tools to create rectangles and ellipses, but these will be broken down into lines and curves.

All points created for the elements are moveable by dragging them to their new position. All points can be snapped to the grid intersections if the snap option is turned on, otherwise they can be positioned anywhere.

The symbol can be rotated clockwise and counter clockwise and also flipped vertically and horizontally. This allows multiple symbols to be easily created based on the same design. Remember to use the save symbol as new option for this.

Move To

Move the starting position of the sub path

If an existing sub path is being created, this will be closed and a new sub path started at the new position

Draw To

Draw a line to the next selected point

Cubic To

Draw a bezier curve using two control points and an end point

Rectangle

Draw a rectangle between two opposite corners

This closes any existing sub path and creates a new sub path consisting of the rectangle.
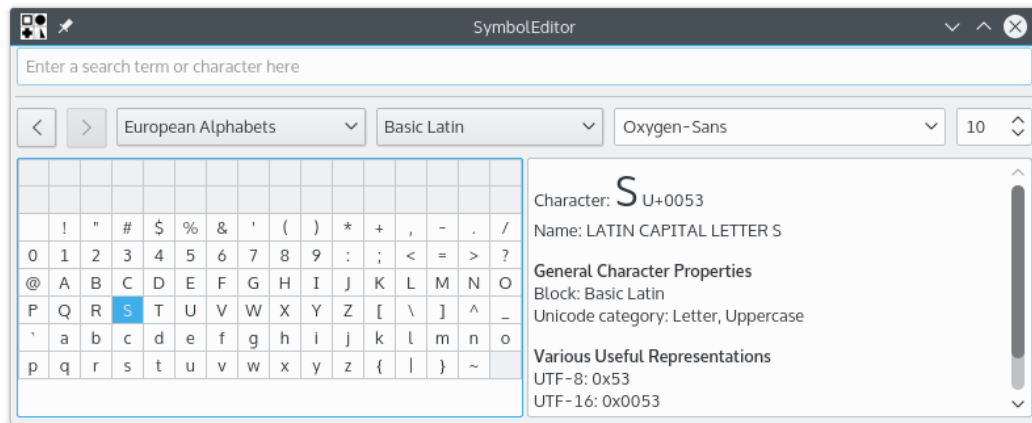
Ellipse

Draw an ellipse between two opposite corners

This closes any existing sub path and creates a new sub path consisting of the ellipse.

Insert Character

Select a character from a font and insert it into the editor
This will overwrite any existing paths

The character selector dialog is the standard KDE dialog and allows selection of characters from any font. The size is not used as the character is scaled to fit within the preferred size guide.

Double clicking a character will insert that character into the editor. The dialog will stay open so that another character could be inserted, although this will overwrite the first. This does allow an insert character, save, insert character, save workflow to quickly build up a library of symbols. Ensure that the symbol being edited is a new symbol and not one previously selected from the library, otherwise saving would keep overwriting the one in the library.

Rotate Left

Rotate the whole symbol counter clockwise 90 degrees

Rotate Right

Rotate the whole symbol clockwise 90 degrees

Flip Horizontal

Flip the symbol across the vertical axis

Flip Vertical

Flip the symbol across the horizontal axis

Scale to Preferred Size

Scale the symbol to fit within the defined preferred size

Note that this only affects the points; where a non filled symbol is created and a line width is defined, this may extend beyond the guide size.

Enable Snap

Enable snapping of points to the grid

Guide Lines
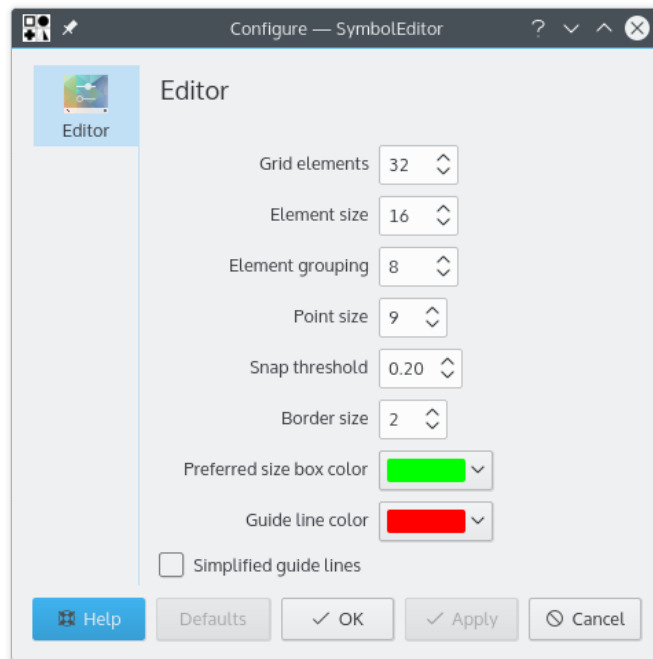
Enable the generation of guide lines

4.1.5 The Settings and Help Menu

SymbolEditor has the common KDE **Settings** and **Help** menu items, for more information read the sections about the Settings Menu and Help Menu of the KDE Fundamentals.

Chapter 5

Dialogs

5.1   The Configuration Dialog

The configuration dialog allows a number of options to be set.

Chapter 6

Credits and License

SymbolEditor

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Contributors:

- Translations provided by various contributors. See the translation file for details.

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