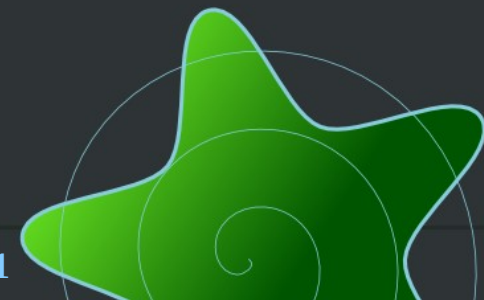


Finger Friendly Qt Widgets(FFQW) Library for Maemo

September 2009



Developers:

Marcin Kuśmierski

Damian Płonek

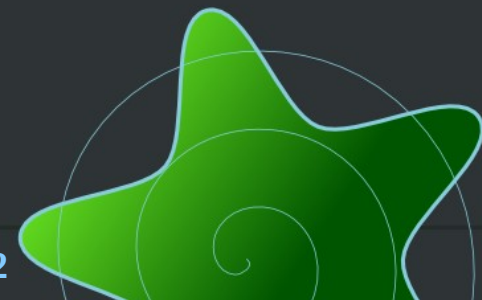
Dawid Klimt

Michał Palczewski

Maintainers:

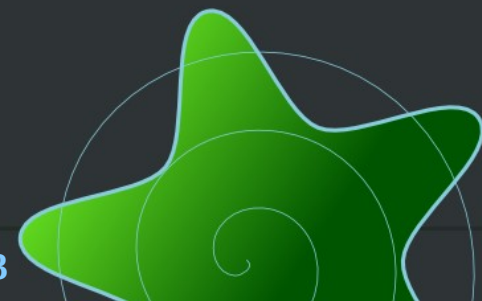
Marcin Biedroń

Łukasz Pawlik



Presentation agenda:

- Short introduction
- Differences between standard Qt and FFQW widgets



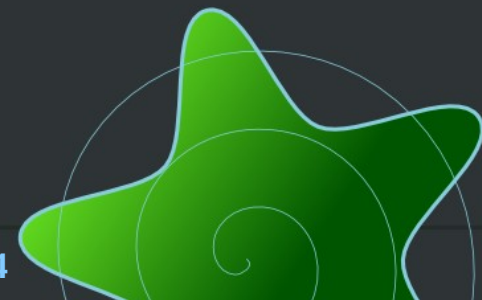
Short introduction

All widgets are based on Nokia Qt 4.5 library and graphics in SVG format.

The aim of the project is to design a widgets' library:

- Aesthetic and visually appealing
- Easy to adapt by a developer
- Convenient to use by a finger or stylus
- Working on many platforms

Widgets are being designed on Nokia's Internet Tablets e.g. N800,N810.



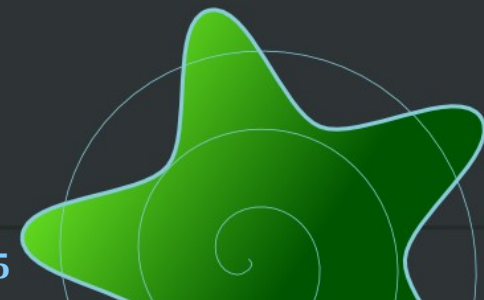
There are the following problems:

How to fit a large amount of information while maintaining the small size of objects?

How can we make it easy to use applications with the finger-controlled touch screen?

FFQW Library provides a comprehensive solution to these problems.

In addition, the library provides a system of data visualization in the form of graphs. This is a comprehensive, convenient mechanism for the effective and impressive display of data.



Widgets review:

- FFScrollingLabel
- FFScrollingButton
- FFScrollingCheckBox
- FFStringComboBox
- FFColorComboBox
- FFDPad
- FFChart



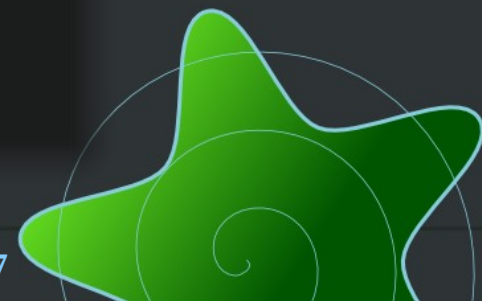
FFScrollingLabel

Is an essential element, which is used by most widgets belonging to the library.

The main FFScrollingLabel's goal is to display a scrolling text. This element solves the basic problem: to provide an effective interface to enable saving space with no restrictions on the length of the string.

It is worth mentioning that if the text fit in the widget, the object behaves as a standard element with no extra processor's stress.

Nokia Maemo
Nokia Maemo 5.0
Nokia Maemo 5.0



FFScrollingLabel

Widget provides many configurations options:

- Text scrolling speed modification
- Color change
- Font size and type change
- Autofit text height to the size of the widget
- Setting text disappearing at the edges
- Setting text alignment

```
palette palette(QColor(26,26,26));
buttons->setPalette(palette);
buttons->setAutoFillBackground(true);

/ Configuring objects
label01->setText("Nokia Maemo 5.0 Qt");
label02->setText("Nokia Maemo");
label01->setResizable(true);
label02->setResizable(true);
label02->setColor(Ff::Title);
if(size() < fontSize())

    label02->fitToFont();

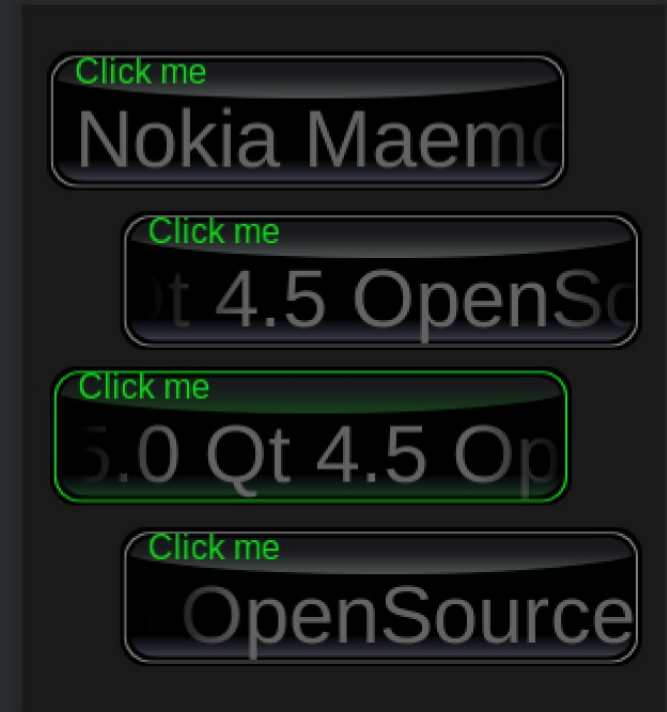
label02->setColor(QColor(0,200,0));
label02->setColor(QColor(0,200,0));

button01->setTitle("Click me");
button01->setDescription("Nokia Maemo");
checkBox01->setTitle("Click me");
```

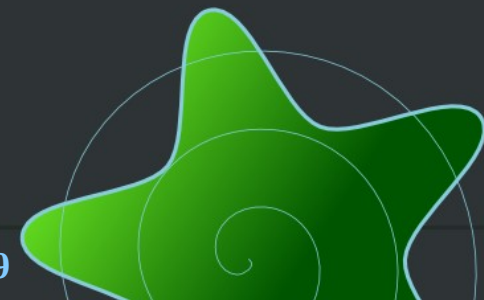

FFScrollingButton

This Widget is the extended version of the standard button. The extension includes possibility to:

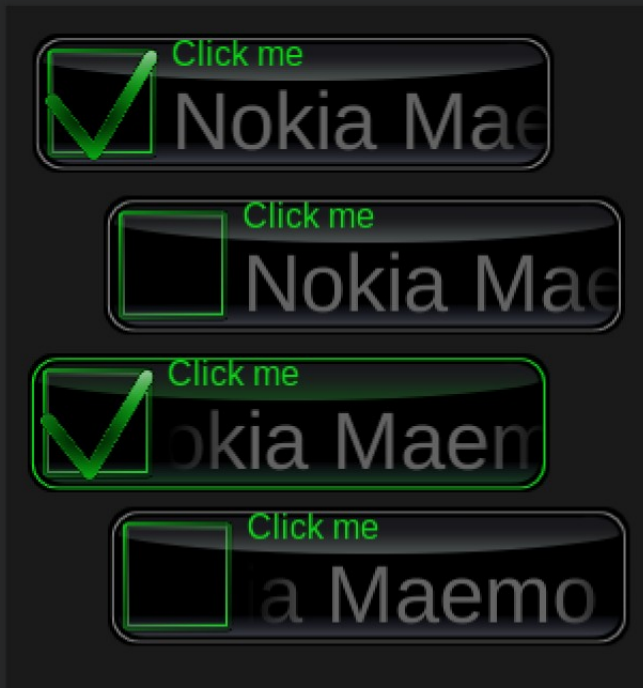
- set two independent and scrolling texts: title and description
- set margins and the size of texts placed on the button.



To summarize: widget implements standard button functionality extended of all FFScrollingLabel's advantages.

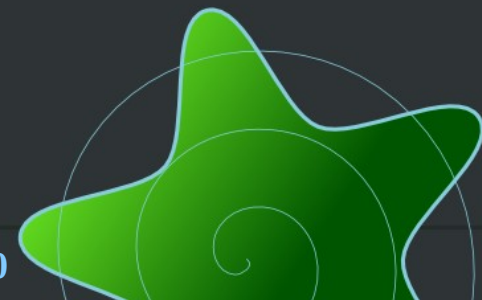


FFScrollingCheckbox



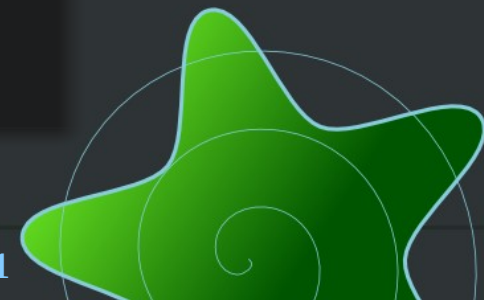
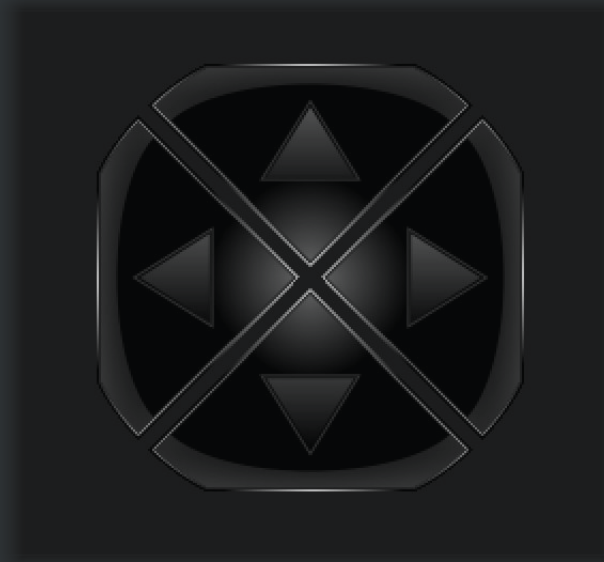
Widget is an extension of the functionality of the standard checkbox.

There was added the functionality from FFScrollingButton: two scrolling texts.



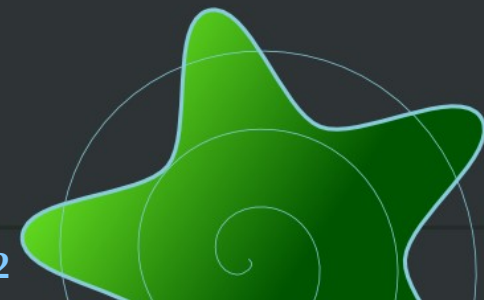
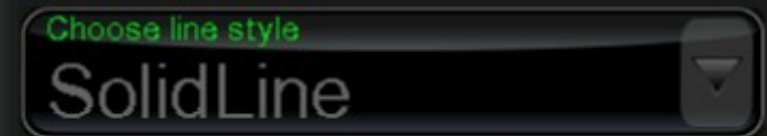
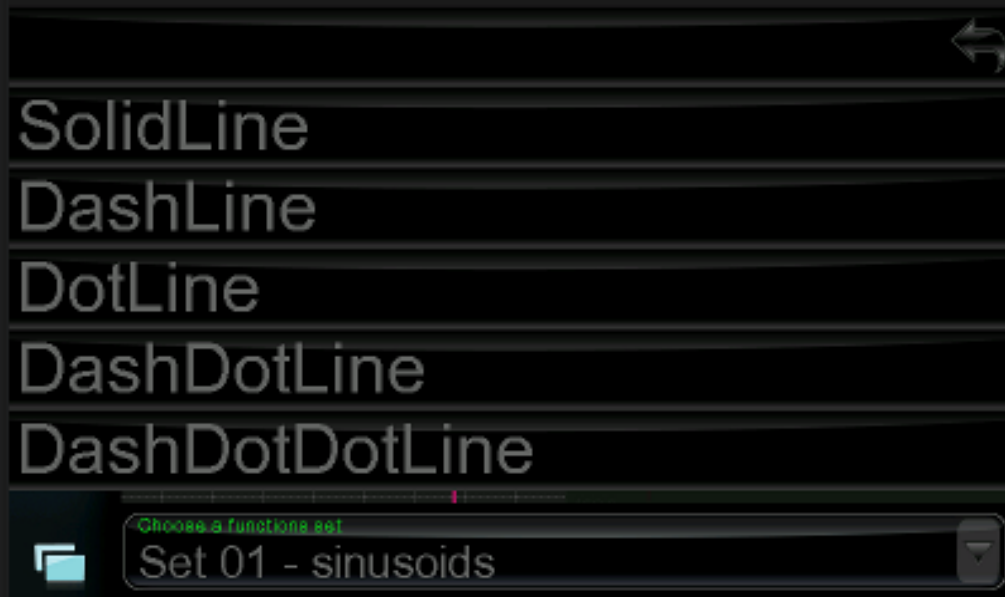
FFDPPad

Four-way widget can be used in maps, charts, and games. Thus it is possible control application without the need to use a slide-out or a virtual keyboard.



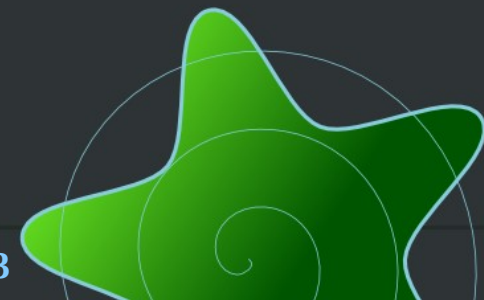
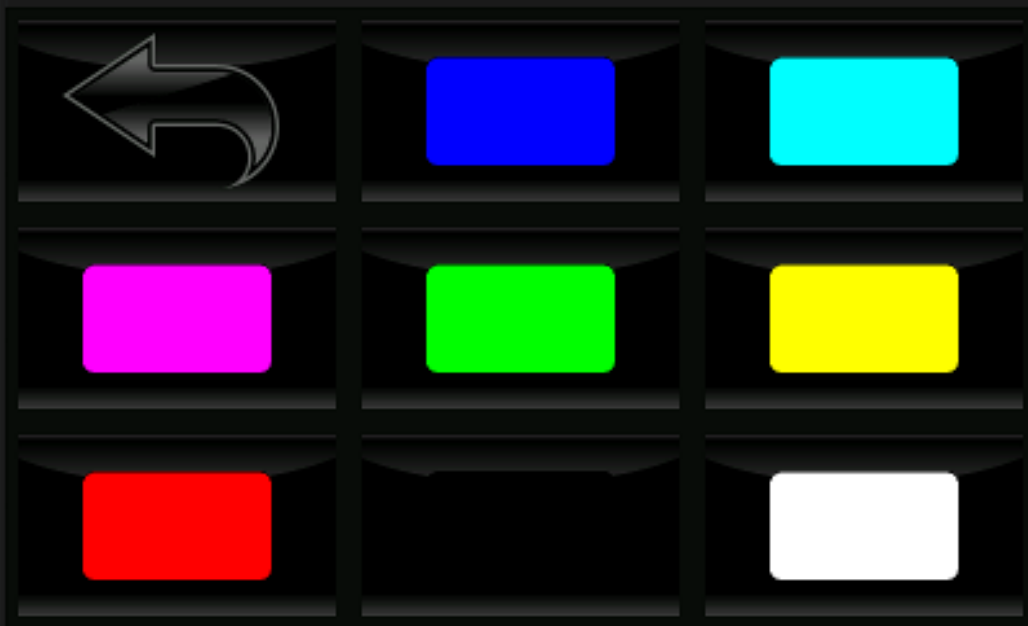
FFStringComboBox

Allows easy and fast way to create a comfortable combo box giving the possibility to choose one of options(texts). It is easy to use on mobile devices through using large buttons and fullscreen mode.



FFColorComboBox

Widget provides similar functionality to FFStringComboBox. Allows the choice of color from the list. Boxes are large and clear so control with fingers is easy and precise.

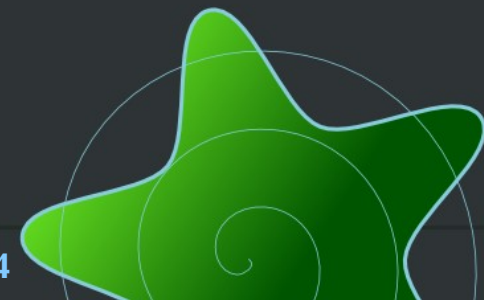


FFChart

Is a complex widget allowing to present data in a chart form. The element fulfills latest software demands destined for mobile devices with built-in touch panels.

Screen workspace is fully used with saving the ergonomics and interface clearness.

And what is most important , the entire functionality can be used with a finger.



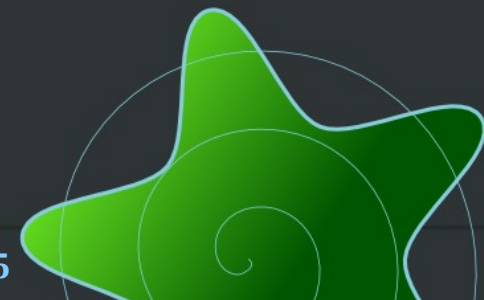
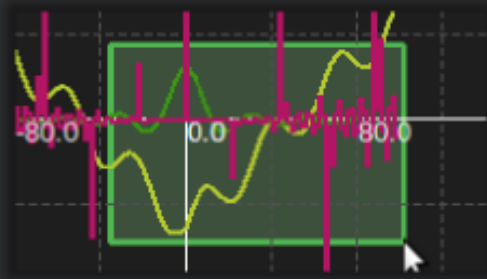
FFChart – Functionality overview

1) Zoom – Widget provides two ways of scaling.

- Animated buttons on top-left corner of the chart



- Selection an area to zoom-in



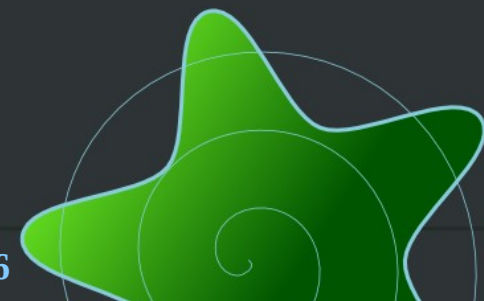
FFChart – Functionality overview

2) Interactive Legend - Allows to modify series' displaying parameters.



Panel enables hiding/showing series and gives access to another configuration panel.

Legend is launching by good looking button on the bottom-left corner of the chart.



FFChart – Functionality overview

3) Series displaying configuration panel – Allows to modify series appearance.

Line width...

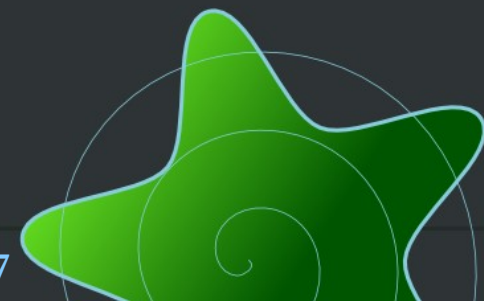
Choose line size
2

Choose line style

SolidLine

...style...

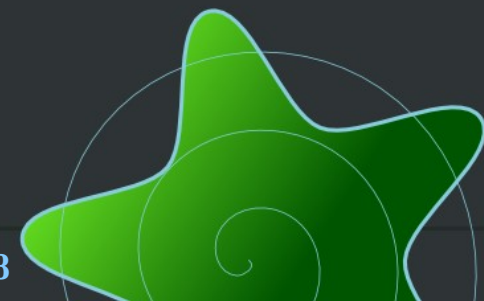
...and color



FFChart – Functionality overview

4) Handling by a finger :

- Chart scaling and moving is possible without using unnecessary panels and windows.
- The special feature is kinetic scrolling.
- Rest of the functionality is available from clear and easy in use panels.



Finger Friendly Qt Widgets

FFChart – In all its splendor

