

ID	...	Creation date	10 June 2009
Platform	S60 3rd Edition FP1, S60 3rd Edition FP2, S60 5th Edition	Tested on devices	Creator IDE V 4.5 and Emulator
Category	Qt for S60	Subcategory	Application

Keywords (APIs, classes, methods, functions): QGraphicsScene, QGraphicsView

Overview

QGraphicsView supports the same affine transformations as QPainter does through QGraphicsView::setMatrix(). By applying a transformation to the view, you can easily add support for common navigation features such as zooming and rotating.

Classes used:

QGraphicsScene-Provides a surface for managing a large number of 2D graphical items

QGraphicsView-Provides a widget for displaying the contents of a QGraphicsScene.

Preconditions

- Download and Install latest version Qt for Symbian - Installation packages which has links on how to install the latest version

Source Code

Header File

```
#ifndef TRANS_H
#define TRANS_H

#include <QtGui/QDialog>
#include "ui_trans.h"
#include<QGraphicsScene>
#include<QGraphicsView>
#include<QPushButton>
#include<QWidget>
#include<QHBoxLayout>
#include<QTextEdit>
#include<QVBoxLayout>
#include<QString>
```

Transformation_of_QGraphicsView

```
class trans : public QDialog
{
    Q_OBJECT

public:
    (QWidget *parent = 0);
    ~trans();

private:
    QGraphicsScene *scene;
    QGraphicsView *view;
    QVBoxLayout *lay;
    QPushButton *but1;
    QPushButton *but2;
    QPushButton *but3;
    QPushButton *but4;
    QWidget *win;
    QTextEdit *txt;
    QVBoxLayout *vlay;

private slots:
    void zoomIn() {view->scale(1.2, 1.2);}
    void zoomOut() { view->scale(1/1.2,1/1.2);}
    void xhg();
    void rotateLeft() { view->rotate(-90); }
    void rotateRight() { view->rotate(90); }

};
#endif // TRANS_H
```

Cpp File

```
#include "trans.h"
#include "ui_trans.h"

trans::trans(QWidget *parent)
    : QWidget(parent)
{
    list=new QListWidget(this);
    list->resize(0,0);
    list1=new QListWidget(this);
    lay=new QHBoxLayout(this);
    list->addItem("Nokia");
    list->addItem("Samsung");
    list->addItem("Motorola");
    list1->addItem("Nokia 6630");
    list1->addItem("5800 Xpress Music");
    list1->addItem("N96");

    list->setSelectionMode(QAbstractItemView::SingleSelection);
    list->setDragEnabled(true);
    list->setDragDropMode(QAbstractItemView::InternalMove);
    list->viewport()->setAcceptDrops(true);

    list->setDropIndicatorShown(true);

    list1->setSelectionMode(QAbstractItemView::SingleSelection);
    list1->setDragEnabled(true);
```

Transformation_of_QGraphicsView

```
list1->viewport()->setAcceptDrops(true);

list1->setDropIndicatorShown(true);

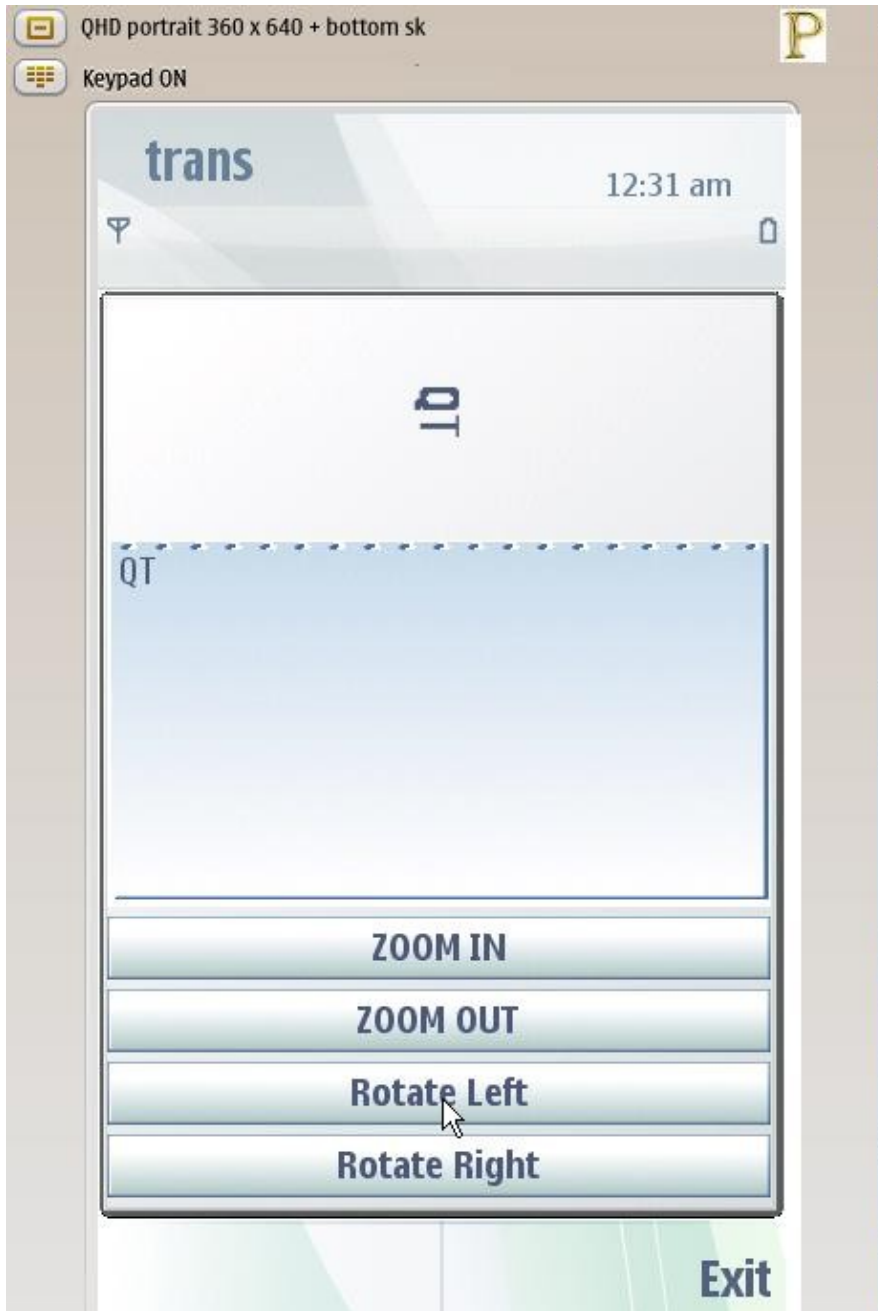
lay->addWidget(list);
lay->addWidget(list1);
setLayout(lay);
list->setStyleSheet("* { background-color:rgb(150,147,88);color:rgb(255,255,255); padding: 7p
list1->setStyleSheet("* { background-color:rgb(150,140,70);color:rgb(255,255,255); padding: 7
resize(200,200);
showMaximized();
}

trans::~~trans()
{
    // No need to delete any object it has got a parent which is properly deleted.
}
void trans::xhg()
{
    QString s3= txt->toPlainText();

    scene->addText(s3);
    scene->update();
    view->show();
}
}
```

Screen shot

More about QGraphicsView visit: [QGraphicsView](#)



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