

CS480 Senior Design Proposal

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Meeting time: 11/15/2014 Saturday 11:00

1 Goal:

Try to organize the outline, so that we can make sure we have a feasible/practical outline/plan for later on implement module by module.

2 QPushButton instead of original class design Pixel

functions that we are going to use:

- setCheckable(true);
- setAutoExclusive(false);

3 Keyboard key sets

3.1 keyset define

Keys	Functions
Ctrl	select multiple buttons
Shift	select buttons in the middle
Ctrl + c	copy frames selected
Ctrl + v	paste frames selected

3.2 reading keyset reference

- <http://qt-project.org/doc/qt-4.8/qml-keyevent.html>
- <http://qt-project.org/doc/qt-4.8/qkeysequence.html>

```
QKeyEvent* ke;
QString modifier = QString::null;
if (ke->modifiers() & Qt::ShiftModifier)
    modifier += "Shift+";
```

```

if (ke->modifiers() & Qt::ControlModifier)
    modifier += "Ctrl+";
if (ke->modifiers() & Qt::AltModifier)
    modifier += "Alt+";
if (ke->modifiers() & Qt::MetaModifier)
    modifier += "Meta+";
QString key = (QString)QKeySequence(ke->key());
QKeySequence result(modifier + key);

```

- <http://qtdocs.narod.ru/4.1.0/doc/html/qkeysequence.html>
- <http://stackoverflow.com/questions/12830788/handle-key-events-ctrltab-and-ctrlshifttab>

```

Item {
    width: 100
    height: 100
    focus: true
    Keys.onPressed: {
        if(event.modifiers && Qt.ControlModifier) {
            if(event.key === Qt.Key_Tab) {
                console.log('forward')
                event.accepted = true;
            } else if(event.key === Qt.Key_Backtab) {
                console.log('backward')
                event.accepted = true;
            }
        }
    }
}

```

- <http://stackoverflow.com/questions/17204142/capturing-modifier-keys-qt>

```

void MainWindow::wheelEvent( QWheelEvent *wheelEvent )
{
    if( wheelEvent->modifiers() & Qt::ShiftModifier )
    {
        // do something awesome
    }
    else if( wheelEvent->modifiers() & Qt::ControlModifier )
    {
        // do something even awesomer!
    }
}

```

- <http://www.qtccentre.org/archive/index.php/t-28754.html>
- python <http://forums.opensuse.org/showthread.php/436964-How-to-catch-Shift-Ctrl-key-in-keyF>
- <http://linux.die.net/man/3/qkeysequence>
- <http://www.codeproject.com/Articles/7305/Keyboard-Events-Simulation-using-keybd-event-func>
- <http://forums.codeguru.com/showthread.php?447587-Detecting-if-Control-or-Shift-key-was-down>
- win32 <http://www.codeproject.com/Articles/6819/SendKeys-in-C>
- <http://alleg.sourceforge.net/stabledocs/en/alleg006.html>

4 myGridLayout for left-handside grid and preview

5 repository update history record

volunteer myself to do the record;