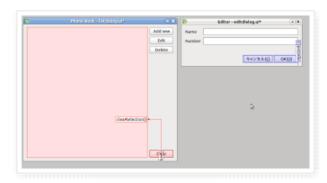


- database (1)
- Debian (1)
- DevKit (2)
- dicom (3)
- editor (6)
- ExtJS (2)
- ffmpeg (2)
- filesystem (1)
- firefox (1)
- gconf-editor (1)
- Geany (2)
- gem (2)
- gem documentation (1)
- gem server (1)
- git (2)
- gLabels (1)
- Glade (1)
- glade3 (2)
- GTK (13)
- gtk-ruby (9)
- gtk3 (3)
- gui (2)
- java (1)
- javascript (1)
- jre (1)
- LAMP Server (1)
- libyaml (1)
- Markaby (1)
- Media Server (6)
- members (1)
- Mingw32 (1)
- mp3 (2)
- MySQL (1)
- nautilus (1)



This is a simple Phone Book application. The idea is that when you click the "Add New" or "Edit" button in the List Dialog (shown on the left), it opens the Edit Dialog (shown on the right) to add or edit item. The "Delete" button will delete a selected item from the list, and the "Clear" button will delete selected items in the list.

Note that there is a red line that links the "Clear" button and the List box. The line signifies Qt's event handling mechanism: **Signal and Slot**. In the Designer, you draw the line by dragging from one object (Clear button) to another (Listbox) in Edit Connections mode, selecting **clicked()** as it's signal and the **clearSelection()** as its signal-receiving slot. When you make an event connection like this within the Designer, you will not have to write codes to make the connection between signal and slot as you will see below. (I did not create any link for the other 3 buttons. I will have to write codes manually for these connections.)

The Edit Dialog form is created using an existing template which already contains a pair of the CANCEL/OK buttons. And these buttons already have connections so that I will not have to write codes for their connections.

One important thing to remember when using the Designer is to add a grid lauout to the dialog itself (not any widget group within); othewise, widgets in the dialog will not line up nicely.

Save these files (listdialog.ui and editdialog.ui) in /ui folder.

- nautilusopen-terminal (1)
- Netbeans (3)
- Network (1)
- Netzke (2)
- nginx (4)
- Octopress (1)
- Passenger (1)
- pg (6)
- pgAdmin (1)
- pik (1)
- Pony (1)
- PostgreSQL (21)
- PostgreSQL 9.1 (1)
- Primergy TX100 S2 (1)
- PS3 (2)
- PS3 Media Server (1)
- ps3mediaserver (1)
- Qt (1)
- Qt Designer (1)
- Qt-Ruby (5)
- Qt4 (1)
- qtbindings (4)
- Rails (1)
- ramaze (9)
- rhino (1)
- RMagic (1)
- Ruboto (1)
- ruby (24)
- Ruby 1.9.2 (2)
- Ruby 1.9.3 (1)
- Ruby in Windows (1)
- ruby mail (2)

- 1 \$ cd ~/work/ruby/qt/ui\_test01/ui
- 2 \$ ls
- 3 editdialog.ui listdialog.ui

# 4. Convert to Ruby files using rbuic4

- 1 \$ rbuic4 listdialog.ui -x -o listdialog\_ui.rb 2 \$ rbuic4 editdialog.ui -x -o editdialog ui.rb
- -x = generate extra code to test the class
- -o = output file

## 5. A Quick Test for Generated ruby files

1 \$ ruby listdialog ui.rb

#### The result is:



1 \$ ruby editdialog\_ui.rb

The result is:

• ruby shoes (3) • ruby-dicom (3) rubygems (1) • RubyMine (1) • rush (2) • RVM (1) • samba (1) • sequel (3) • Segul (1) • shotgun (2) • Shutter (1) • Sinatra (3) • Slim (1) Sony Tablet (1) • SQLite (3) sqlite3-ruby (3) • terminal (1) • ubuntu (19) • Ubuntu 12.04 (1) • Ubuntu 13.04 (1) Ubuntu Server 12.04 (3) • unicorn (3) virtual hosts (1) VirtualBox (2) vsftpd (1) Web design (1) Windows (1) • Windows 8.1 (1) Windows Server

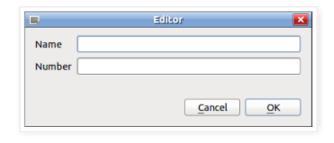
2003 (1)

• WinFF (1)

wxRuby (7)

• wxSmith (1)

WordPress (2)



#### 5. Contents of ui files

QtDesigner's forms are just xml files. Here is the content of listdialog.ui:

```
01 <ui version="4.0">
    <class>ListDialog</class>
02
    <widget class="ODialog" name="ListDialog">
03
04
     cproperty name="geometry">
05
      <rect>
       <x>0</x>
06
07
       <y>0</y>
       <width>539</width>
80
09
       <height>481</height>
10
      </rect>
11
     </property>
     property name="windowTitle">
12
13
      <string>Phone Book</string>
14
     </property>
15
     <layout class="QGridLayout" name="gridLayout">
      <item column="1" row="0">
16
       <layout class="QVBoxLayout" name="verticalLayout">
17
18
        <item>
19
         <widget class="QPushButton" name="addButton">
20
          cproperty name="text">
           <string>Add new</string>
21
22
          23
         </widget>
24
        </item>
25
        <item>
26
         <widget class="QPushButton" name="editButton">
27
          operty name="text">
28
           <string>Edit</string>
29
```

```
30
                                      </widget>
• wxSugar (1)
                           31
                                     </item>

    wxWidgets (5)

                           32
                                     <item>
                           33
                                      <widget class="QPushButton" name="deleteButton">
• Xbuntu (1)
                           34
                                       cproperty name="text">
• Youtube (2)
                           35
                                        <string>Delete</string>
• Zen-CMS (1)
                                       </property>
                           36
                           37
                                      </widget>
                           38
                                     </item>
                           39
                                     <item>
BLOG ARCHIVE
                           40
                                      <spacer name="verticalSpacer">
                           41
                                       cproperty name="orientation">
2016 (3)
                           42
                                        <enum>Qt::Vertical</enum>
2015 (8)
                           43
                                       44
                                       cproperty name="sizeHint" stdset="0">
2014 (8)
                           45
                                        <size>
▶ 2013 (6)
                           46
                                         <width>20</width>
                           47
                                         <height>40</height>
▶ 2012 (23)
                           48
                                        </size>
                           49
                                       ▼ 2011 (86)
                           50
                                      </spacer>
  December (2)
                           51
                                     </item>
                           52
                                     <item>
 November (3)
                           53
                                      <widget class="QPushButton" name="clearButton">
 October (5)
                                       operty name="text">
                           54
                           55
                                        <string>Clear</string>
  ➤ September (4)
                           56
                                       </property>
                           57
                                      </widget>
  ► August (10)
                                     </item>
                           58
  ▶ July (6)
                           59
                                    </layout>
                           60
                                   </item>
  ▶ June (1)
                                   <item column="0" row="0">
                           61
  ▼ May (11)
                           62
                                    <widget class="QListWidget" name="list">
                           63
                                   </widget></item>
    Using
                           64
                                 </layout>
      QtDesigner
                           65
                                </widaet>
      for Ruby
                                <resources>
                           66
      Programming
                           67
                                 <connections>
    Ruby Sites
                           68
                                  <connection>
                           69
                                   <sender>clearButton</sender>
    Installing
                           70
                                   <signal>clicked()</signal>
      qtbindings (alt
                           71
                                   <receiver>list</receiver>
      Qt-Ruby) on
                                   <slot>clearSelection()</slot>
                           72
      Ubuntu
                           73
                                   <hints>
    Installing json
                           74
                                   <hint type="sourcelabel">
                           75
                                     < x > 495 < / x >
    Displaying List
                                     <y>455</y>
                           76
      of Tables in
                           77
                                    </hint>
      PostgreSQL
                                    <hint type="destinationlabel">
                           78
```

```
79
                                    < x > 337 < / x >
   Switching to
                           80
                                    < y > 391 < / y >
     PostgreSQL
                           81
                                   </hint>
     in Netzke
                          82
                                  </hints>
     Demo
                          83
                                 </connection>
   Installing a
                           84 </connections>
     Netzke demo
                          85 </resources></ui>
     app on
     Ubuntu
                        And here is the contents of editdialog.ui file:
   Installing pg on
     Ubuntu with
     rvm
                          001 <ui version="4.0">
                         002
                                <class>EditDialog</class>
   Ruby Cheat
                          003
                                <widget class="QDialog" name="EditDialog">
     Sheets
                         004
                                 cproperty name="geometry">
                          005
                                  <rect>
   First Bowline
                          006
                                   < x > 0 < / x >
     App Failed to
                         007
                                   <y>0</y>
     Run on
                          800
                                   <width>421</width>
     Ubuntu
                          009
                                   <height>143</height>
   Installing
                          010
                                  </rect>
     Bowline
                          011
                                 012
                                 property name="windowTitle">
 ► April (15)
                         013
                                  <string>Editor</string>
                         014
                                 </property>
 ► March (18)
                                 <layout class="QGridLayout" name="gridLayout_2">
                          015
                                  <item column="0" row="0">
 ► January (11)
                         016
                         017
                                   <layout class="QGridLayout" name="gridLayout">
                          018
                                    <item column="0" row="0">
2010 (93)
                                     <widget class="QLabel" name="nameLabel">
                          019
                          020
                                      cproperty name="text">
                          021
                                       <string>Name</string>
                          022
                                      </property>
                          023
                                     </widget>
                          024
                                    </item>
                          025
                                    <item column="1" row="0">
                          026
                                     <widget class="QLineEdit" name="nameEdit">
                          027
                                    </widget></item>
                                    <item column="0" row="1">
                          028
                                     <widget class="QLabel" name="numberLabel">
                          029
                                      operty name="text">
                          030
                          031
                                       <string>Number</string>
                         032
                                      033
                                     </widget>
                         034
                                    </item>
                          035
                                    <item column="1" row="1">
                                     <widget class="QLineEdit" name="numberEdit">
                         036
                         037
                                    </widget></item>
```

```
038
        </layout>
039
       </item>
040
       <item column="0" row="1">
041
        <spacer name="verticalSpacer">
042
         cproperty name="orientation">
          <enum>Qt::Vertical</enum>
043
044
         045
         cproperty name="sizeHint" stdset="0">
046
          <size>
047
           <width>20</width>
048
           <height>15</height>
049
          </size>
050
         051
        </spacer>
052
       </item>
053
       <item column="0" row="2">
        <layout class="QHBoxLayout"</pre>
054
    name="horizontalLayout 3">
055
         <item>
056
          <spacer name="horizontalSpacer">
           cproperty name="orientation">
057
058
            <enum>Qt::Horizontal</enum>
059
           </property>
           property name="sizeHint" stdset="0">
060
061
            <size>
062
             <width>108</width>
063
             <height>20</height>
064
            </size>
065
           </property>
066
          </spacer>
067
         </item>
068
         <item>
069
          <widget class="QDialogButtonBox"</pre>
    name="buttonBox">
070
           cproperty name="orientation">
071
            <enum>Qt::Horizontal
072
           073
           property name="standardButtons">
074
            <set>QDialogButtonBox::Cancel|QDialogButtonBox::Ok</set>
075
           </property>
076
          </widget>
077
         </item>
078
        </layout>
079
       </item>
080
      </layout>
081
     </widget>
082
     <resources>
083
     <connections>
084
      <connection>
```

```
085
        <sender>buttonBox</sender>
        <signal>accepted()</signal>
086
087
        <receiver>EditDialog</receiver>
880
        <slot>accept()</slot>
089
        <hints>
090
         <hint type="sourcelabel">
          < x > 410 < / x >
091
092
          <y>132</y>
093
         </hint>
094
         <hint type="destinationlabel">
095
          < x > 157 < / x >
096
          <y>274</y>
097
         </hint>
098
        </hints>
099
       </connection>
100
       <connection>
101
        <sender>buttonBox</sender>
102
        <signal>rejected()</signal>
103
        <receiver>EditDialog</receiver>
104
        <slot>reject()</slot>
105
        <hints>
106
         <hint type="sourcelabel">
107
          < x > 410 < / x >
108
          <y>132</y>
109
         </hint>
110
         <hint type="destinationlabel">
111
          < x > 286 < / x >
112
          <y>274</y>
113
         </hint>
114
        </hints>
115
       </connection>
116
      </connections>
117 </resources></ui>
```

### 6. Contents of generated rb files

The tool **rbuic4** (Ruby UI Compiler) generates ruby files (rb) from QtDesigner's output files (ui). So **listdialog\_ui.rb** looks like this:

```
001 =begin
002 ** Form generated from reading ui file 'listdialog.ui'
003 **
004 ** Created: 日 6月 19 11:49:30 2011
005 ** by: Qt User Interface Compiler version 4.7.0
006 **
007 ** WARNING! All changes made in this file will be lost when recompiling ui file!
008 =end
```

```
009
010 require 'Qt4'
011
012 class Ui ListDialog
013
        attr reader :gridLayout
014
        attr reader :verticalLayout
015
        attr reader :addButton
016
        attr reader :editButton
017
        attr reader :deleteButton
018
        attr reader :verticalSpacer
019
        attr reader :clearButton
020
        attr reader :list
021
022
        def setupUi(listDialog)
023
         if listDialog.objectName.nil?
024
             listDialog.objectName = "listDialog"
025
        end
026
        listDialog.resize(539, 481)
027
        @gridLayout = Qt::GridLayout.new(listDialog)
        @gridLayout.objectName = "gridLayout"
028
029
        @verticalLayout = Qt::VBoxLayout.new()
030
        @verticalLayout.objectName = "verticalLayout"
031
        @addButton = Qt::PushButton.new(listDialog)
032
        @addButton.objectName = "addButton"
033
034
        @verticalLayout.addWidget(@addButton)
035
036
        @editButton = Qt::PushButton.new(listDialog)
037
        @editButton.objectName = "editButton"
038
039
        @verticalLayout.addWidget(@editButton)
040
041
        @deleteButton = Qt::PushButton.new(listDialog)
042
        @deleteButton.objectName = "deleteButton"
043
044
        @verticalLayout.addWidget(@deleteButton)
045
        @verticalSpacer = Qt::SpacerItem.new(20, 40,
046
    Qt::SizePolicy::Minimum, Qt::SizePolicy::Expanding)
047
048
        @verticalLayout.addItem(@verticalSpacer)
049
050
        @clearButton = Qt::PushButton.new(listDialog)
051
        @clearButton.objectName = "clearButton"
052
053
        @verticalLayout.addWidget(@clearButton)
054
055
056
        @gridLayout.addLayout(@verticalLayout, 0, 1, 1, 1)
```

```
057
058
         @list = Qt::ListWidget.new(listDialog)
059
         @list.objectName = "list"
060
061
         @gridLayout.addWidget(@list, 0, 0, 1, 1)
062
063
064
         retranslateUi(listDialog)
065
         Qt::Object.connect(@clearButton,
    SIGNAL('clicked()'), @list, SLOT('clearSelection()'))
066
067
         Qt::MetaObject.connectSlotsByName(listDialog)
068
         end # setupUi
069
070
         def setup_ui(listDialog)
071
             setupŪi(listDialog)
072
         end
073
074
         def retranslateUi(listDialog)
         listDialog.windowTitle =
075
    Qt::Application.translate("ListDialog", "Phone Book",
     nil, Qt::Application::UnicodeUTF8)
076
         @addButton.text =
     Qt::Application.translate("ListDialog", "Add new",
    nil, Qt::Application::UnicodeUTF8)
077
         @editButton.text =
    Qt::Application.translate("ListDialog", "Edit", nil,
     Qt::Application::UnicodeUTF8)
078
         @deleteButton.text =
    Qt::Application.translate("ListDialog", "Delete", nil,
     Qt::Application::UnicodeUTF8)
079
         @clearButton.text =
     Qt::Application.translate("ListDialog", "Clear", nil,
     Qt::Application::UnicodeUTF8)
080
         end # retranslateUi
081
082
         def retranslate ui(listDialog)
083
             retranslate Ui(list Dialog)
084
         end
085
086 end
087
088 module Ui
         class ListDialog < Ui_ListDialog</pre>
089
090
         end
091 end # module Ui
092
093 if $0 == FILE
         a = Q\overline{t}::App\overline{li}cation.new(ARGV)
```

```
095
          u = Ui ListDialog.new
 096
          w = Qt::Dialog.new
 097
          u.setupUi(w)
 098
          w.show
 099
          a.exec
 100 end
And editdialog ui.rb looks like this:
 001 =begin
 002
      ** Form generated from reading ui file 'editdialog.ui'
 003
 004
      ** Created: 金 6月 3 20:45:49 2011
               by: Qt User Interface Compiler version 4.7.0
      **
 005
 006
      ** WARNING! All changes made in this file will be lost
 007
      when recompiling ui file!
 008 =end
 009
 010 require 'Qt4'
 011
 012 class Ui EditDialog
 013
          attr reader : gridLayout 2
 014
          attr reader :gridLayout
 015
          attr reader :nameLabel
 016
          attr reader :nameEdit
 017
          attr reader :numberLabel
 018
          attr reader :numberEdit
 019
          attr reader :verticalSpacer
 020
          attr reader :horizontalLayout 3
 021
          attr reader :horizontalSpacer
 022
          attr reader :buttonBox
 023
 024
          def setupUi(editDialog)"
 025
          if editDialog.objectName.nil?
 026
               editDialog.objectName = "editDialog"
 027
          end
 028
          editDialog.resize(421, 143)
          @gridLayout 2 = Qt::GridLayout.new(editDialog)
 029
 030
          @gridLayout_2.objectName = "gridLayout_2"
 031
          @gridLayout = Qt::GridLayout.new()
 032
          @gridLayout.objectName = "gridLayout"
 033
          @nameLabel = Qt::Label.new(editDialog)
 034
          @nameLabel.objectName = "nameLabel"
 035
          @gridLayout.addWidget(@nameLabel, 0, 0, 1, 1)
 036
 037
 038
          @nameEdit = Qt::LineEdit.new(editDialog)
 039
          @nameEdit.objectName = "nameEdit"
```

```
040
041
         @gridLayout.addWidget(@nameEdit, 0, 1, 1, 1)
042
043
         @numberLabel = Qt::Label.new(editDialog)
044
         @numberLabel.objectName = "numberLabel"
045
046
         @gridLayout.addWidget(@numberLabel, 1, 0, 1, 1)
047
048
         @numberEdit = Qt::LineEdit.new(editDialog)
049
         @numberEdit.objectName = "numberEdit"
050
051
         @gridLayout.addWidget(@numberEdit, 1, 1, 1, 1)
052
053
054
         @gridLayout 2.addLayout(@gridLayout, 0, 0, 1, 1)
055
056
         @verticalSpacer = Qt::SpacerItem.new(20, 15,
     Qt::SizePolicy::Minimum, Qt::SizePolicy::Expanding)
057
058
         @gridLayout 2.addItem(@verticalSpacer, 1, 0, 1, 1)
059
060
         @horizontalLayout 3 = Qt::HBoxLayout.new()
061
         @horizontalLayout 3.objectName =
     "horizontalLayout 3"
062
         @horizontalSpacer = Qt::SpacerItem.new(108, 20,
     Qt::SizePolicy::Expanding, Qt::SizePolicy::Minimum)
063
064
         @horizontalLayout 3.addItem(@horizontalSpacer)
065
066
         @buttonBox = Qt::DialogButtonBox.new(editDialog)
067
         @buttonBox.objectName = "buttonBox"
         @buttonBox.orientation = Qt::Horizontal
068
069
         @buttonBox.standardButtons =
     Qt::DialogButtonBox::Cancel|Qt::DialogButtonBox::Ok
070
071
         @horizontalLayout 3.addWidget(@buttonBox)
072
073
074
         @gridLayout_2.addLayout(@horizontalLayout_3, 2, 0,
    1, 1)
075
076
077
         retranslateUi(editDialog)
078
         Qt::Object.connect(@buttonBox,
     SIGNAL('accepted()'), editDialog, SLOT('accept()'))
079
         Qt::Object.connect(@buttonBox,
     SIGNAL('rejected()'), editDialog, SLOT('reject()'))
080
081
         Ot::MetaObject.connectSlotsByName(editDialog)
```

```
082
          end # setupUi
 083
 084
           def setup ui(editDialog)
 085
               setupUi(editDialog)
 086
 087
 088
          def retranslateUi(editDialog)
 089
          editDialog.windowTitle =
      Qt::Application.translate("EditDialog", "Editor", nil,
      Qt::Application::UnicodeUTF8)
 090
          @nameLabel.text =
      Qt::Application.translate("EditDialog", "Name", nil,
      Qt::Application::UnicodeUTF8)
 091
          @numberLabel.text =
      Qt::Application.translate("EditDialog", "Number", nil,
      Qt::Application::UnicodeUTF8)
          end # retranslateUi
 092
 093
 094
          def retranslate ui(editDialog)
               retranslateUi(editDialog)
 095
 096
          end
 097
 098 end
 099
 100
     module Ui
 101
          class EditDialog < Ui EditDialog</pre>
 102
           end
 103 end # module Ui
 104
 105 if $0 == FILE
 106
          a = Qt::Application.new(ARGV)
 107
          u = Ui EditDialog.new
 108
          w = Qt::Dialog.new
 109
          u.setupUi(w)
 110
          w.show
 111
          a.exec
 112 end
7. Some notes on generated ruby codes (1) You should not modify these files
manually because they will be lost when re-generated. (2) The block "if $0 ==
FILE ... end" was added by -x option.
   1 $ rbuic4 listdialog.ui -x -o listdialog_ui.rb
    when -x option is used....
   1 if $0 == FILE
      this block is added due to -x option above
          a = Qt::Application.new(ARGV)
```

This is convenient in that you can run it immediately (before writing any codes) to see how its form looks like. (3) Another convenience for this block is that it can be used as a template for your main ruby program as you will see below (main.rb). (4) The connection between signal and slot is made using string literals of method names (including parenthesis):

```
1  Qt::Object.connect(@clearButton, SIGNAL('clicked()'),
    @listView, SLOT('clearSelection()'))
1  Qt::Object.connect(@buttonBox, SIGNAL('accepted()'),
    editDialog, SLOT('accept()'))
2  Qt::Object.connect(@buttonBox, SIGNAL('rejected()'),
    editDialog, SLOT('reject()'))
```

(5) A dialog within Qt application is an instance of Qt::Dialog or Qt::Widget class. However, you see from the examples above that dialog classes in generated ruby ui files (Ui\_ListDialog and Ui\_EditDialog) do not inherit from Qt::Dialog or from Qt::Widget.

```
1 class Ui_ListDialog
2 ...
3 end
4 class Ui_EditDialog
5 ...
6 end
```

This means that somewhere in my application, I have to creates a dialog object that inherits from Qt::Dialog and that somehow I have to link it to the dialog class that defines its ui elements created by the Designer. That is done by the 3 lines in above example:

```
1  u = Ui_ListDialog.new  # insatance of ui class
2  w = Qt::Dialog.new  # instance of Qt::Dialog
3  u.setupUi(w)  # link the two to make the Qt
dialog object to use UI elements
```

(6) A new module "Ui" is created and empty subclasses (ListDialog, EditDialog) inherited from the generated classes (Ui\_ListDialog, ListDialog) is created in the

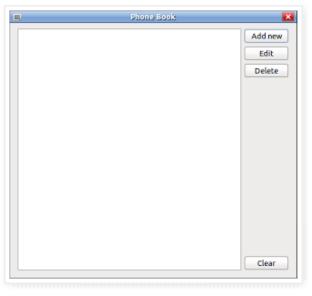
new module Ui. The idea is that your own codes and changes are to be made in subclasses so that re-generating will not erase your changes. (7) The method setupUi() makes its form alive in your application by creating a bunch of instance variables for widgets and layouts in the form. A more Ruby-like method setup\_ui() is created to call setupUi(). (8) The method retranslateUi() is defined for localization/internationalization of UI. 8. Creating main.rb My first version of main program started with a copy from a generated ui file (listdialog\_ui.rb) and modified little. First I load those two ui files. I use subclass Ui::ListDialog instead of the parent Ui\_ListDialog class. I can changes the subclass without worrying about being over-written by re-generation of ui codes. Here the goal is just to open the Edit Dialog. There is no functionality: clicking on a button does nothing.

```
01 # main.rb
02 # version 1
03 #
04 require 'Qt4'
05 require './ui/listdialog_ui' # load ui file
    generated by the Designer. I get an error without
    "./" in Ruby 1.9.2
06 require './ui/editdialog ui'
                                  # load ui file
    generated by the Designer
08 if $0 == FILE
       a = 0t::Application.new(ARGV)
10
       w = Qt::Dialog.new
11
       u = Ui::ListDialog.new
                                  # use subclass
12
                                  # more rubyish,
       u.setup ui(w)
    replacing setupUi()
13
       w.show
14
       a.exec
15 end
```

Run it.

1 \$ ruby main.rb

The result.



# 9. Updating main.rb Now I would like to add a functionality: clicking "Add New" or "Edit"

button opens an Edit Dialog. To do this, I

create two Qt::Dialog classes (MainForm and EditForm) and link them to ui objects created with the Designer. Then I declare 3 slot methods that respond to cliked() signals. (I do not have to declare 'clear\_selection()' slot method - already done within the Designer by drawing a line from Clear button to the List Widget.) Those slot methods create an instance of EditForm and calls exec method so that the dialog opens in modal mode. Note that I compare the return value of exec with fixed number 1. I am supposed to use predefined constant Qt::Accepted, but it crashes on me when I use it.

```
01 # main.rb
02 # version 2
03 #
04
05 require 'Qt4'
06 require './ui/listdialog_ui'
07 require './ui/editdialog_ui'
80
09 class MainForm < Qt::Dialog
10
11
     slots 'add_item()', 'edit_item()', 'delete_item()'
    # declaration
     # slots 'clear selection' -- in parent class:
12
   Ui ListDialog
```

```
13
14
      def initialize
15
        super
16
        @ui = Ui::ListDialog.new
17
        @ui.setup_ui(self)
       Qt::Object.connect(@ui.addButton,
18
   SIGNAL('clicked()'), self, SLOT('add_item()'))
19
        Qt::Object.connect(@ui.editButton,
    SIGNAL('clicked()'), self, SLOT('edit_item()'))
       Qt::Object.connect(@ui.deleteButton,
   SIGNAL('clicked()'), self, SLOT('delete_item()'))
       #-- in parent class: Ui ListDialog
21
22
        #Qt::Object.connect(@ui.clearButton,
   SIGNAL('clicked()'), self, SLOT('clear_selection()'))
23
24
        self.show
25
      end
26
27
      def add item()
       d = E\overline{d}itForm.new(self)
28
       if(d.exec == 1) # I use "1" instead of
    Qt::Accepted constant because it crashes on me
30
        end
31
      end
32
33
     def edit_item()
        d = EditForm.new(self)
34
       if(d.exec == 1) # I use "1" instead of
35
    Ot::Accepted constant because it crashes on me
36
        end
37
      end
38
39
      def delete item()
40
41
42
      # -- in parent class: Ui_ListDialog
43
      # def clear_selection()
44
     # end
45
46
   end
47
48 class EditForm < Qt::Dialog
49
50
      def initialize(parent=nil)
51
        super(parent)
52
       @ui = Ui::EditDialog.new
53
        @ui.setup ui(self)
        self.show
54
      end
```

```
56

57

58

59

if $0 == __FILE_

a = Qt::Application.new(ARGV)

MainForm.new

a.exec

end
```

#### 10. Final main.rb

Finally I define all slot methods, giving all required functions to the program.

```
01 # main.rb
02 # version 3
03 #
04 require 'Qt4'
05 require './ui/listdialog_ui'
06 require './ui/editdialog_ui'
07
08 class MainForm < Qt::Dialog
09
10
      slots 'add_item()', 'edit_item()', 'delete_item()'
11
12
      def initialize
13
        super
14
        @ui = Ui::ListDialog.new
15
        @ui.setup_ui(self)
16
17
18
        Qt::Object.connect(@ui.addButton,
    SIGNAL('clicked()'), self, SLOT('add_item()'))
19
        Qt::Object.connect(@ui.editButton,
    SIGNAL('clicked()'), self, SLOT('edit item()'))
        Qt::Object.connect(Qui.deleteButton,
20
    SIGNAL('clicked()'), self, SLOT('delete item()'))
21
22
        self.show
23
24
      end
25
     def add_item()
26
27
        d = E\overline{d}itForm.new(self)
```

```
28
        if(d.exec == 1) # OK clicked
29
          @ui.list.add item(d.name + ": " + d.number)
30
        end
31
      end
32
33
      def edit_item()
        if(@ui.list.current_item) # if any item is
34
   selected
35
          temp = @ui.list.current_item.text
          a = temp.split(/: /)
36
          d = EditForm.new(self)
37
38
          d.name = a[0]
39
          d.number = a[1]
          if(d.exec == 1) # OK clicked
40
            @ui.list.current_item.text = d.name + ": " +
41
    d.number
42
          end
43
        end
44
      end
45
      def delete_item()
46
        @ui.list.current_item.dispose # delete selected
47
    object
48
      end
49
50
   end
51
52
   class EditForm < Qt::Dialog</pre>
53
54
      def initialize(parent=nil)
55
        super(parent)
        @ui = Ui::EditDialog.new
56
57
        @ui.setup_ui(self)
self.show
58
59
      end
60
61
      def name
62
        @ui.nameEdit.text
63
      end
64
65
      def name=(s)
66
        @ui.nameEdit.set_text(s)
67
      end
68
69
      def number
70
        @ui.numberEdit.text
71
      end
72
      def number=(s)
```

```
74
          @ui.numberEdit.set_text(s)
 75
        end
 76
 77
      end
 78
 79 if $0 == __FILE
        a = Qt::Application.new(ARGV)
 80
 81
        MainForm.new
 82
        a.exec
 83 end
Posted by Socrateos at 10:21 AM
               G+1 +2 Recommend this on Google
Labels: Qt Designer, Qt-Ruby, qtbindings
```

# 4 comments:



Anonymous January 23, 2013 at 7:35 AM

Great tutorial, thanks a lot!

Reply



zipizap September 20, 2013 at 7:27 PM

This is the best tutorial I've found explaining Ruby, Qt and QtCreator... really thanks

Reply



MatrakMatrix December 15, 2014 at 6:54 AM

Thank you so much kind sir! You saved my life :) Awesome tutorial

Reply



Anonymous July 21, 2015 at 10:08 AM

Thanks for the tutorial but I still have a couple of questions to ask. How can I safely read and save binary files? You see, I've been trying to allow my code to store info in such a way both Ruby and QtRuby can read it. I know Marshal.dump and load

