

Qt Primer

ESE3005

to begin, first have a look at this tutorial:

<https://doc.qt.io/qtcreator/creator-writing-program.html>

note the following from the tutorial...

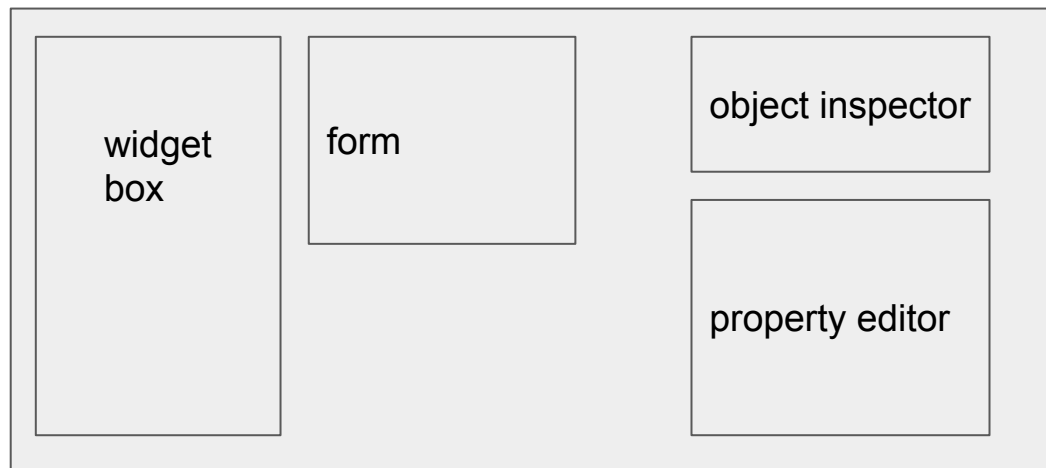
To call a find function when users select the Find button, you use the Qt signals and slots mechanism. A signal is emitted when a particular event occurs and a slot is a function that is called in response to a particular signal. Qt widgets have predefined signals and slots that you can use directly from Qt Designer. To add a slot for the find function:

- Right-click the Find button to open a context-menu.
- Select Go to Slot > clicked(), and then select OK.

A private slot, `on_findButton_clicked()` , is added to the header file, `textfinder.h` and a private function, `TextFinder::on_findButton_clicked()` , is added to the source file, `textfinder.cpp`.

Qt Widgets for Desktop Applications

- a nice way to quickly prototype an application
- a good way to learn the basics of Qt Creator
- Forms ->/mainwindow.ui gives you Design Mode



Qt Creator Design Mode

Qt Widget Applications (event loop)

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event occurs (e.g., the user clicks on the `QUIT` button).

Example 9.5 shows a simple application that initiates the event loop by calling `exec()`.

EXAMPLE 9.5 `src/eventloop/main.cpp`

```
[ . . . . ]

int main(int argc, char * argv[]) {
    QApplication myapp(argc, argv); ❶

    QWidget rootWidget;
    setGui(&rootWidget);

    rootWidget.show(); ❷
    return myapp.exec(); ❸
};
```

❶ Every GUI, multithreaded, or event-driven Qt Application must have a `QApplication` object defined at the top of `main()`.

❷ Show our widget on the screen.

❸ Enter the event loop.

When we run this app, we first see a widget on the screen as shown in the following figure.



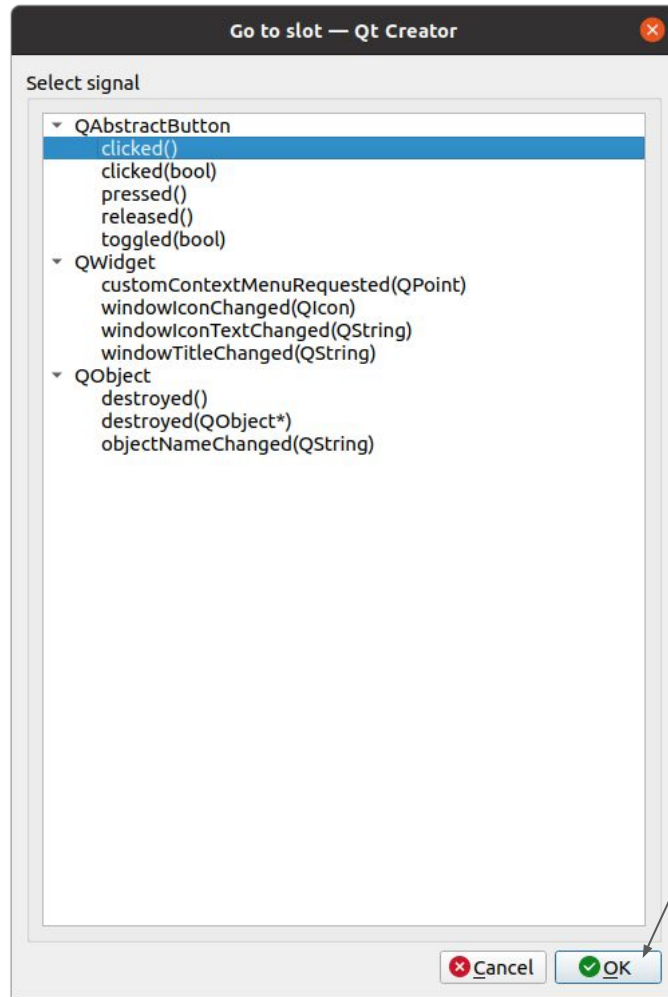
Qt Widgets (cont'd)

please view Qt tutorial at:

<https://www.youtube.com/watch?v=TIUTO8GjSGo>

in particular note:

- the addition of the *onButtonClicked()* method in *mainwindow.h* and *mainwindow.cpp*;
- the *connect(ui->pushButton, SIGNAL(), this SLOT())* line added to *mainwindow.cpp*



click OK
and you will be taken
to the .cpp file, where
you will see a method
has been added to
handle the “on click” scenario
for the del button



