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How to close correctly a Qt program?

When I try to close my Qt program, it just keeps running in the background though there's no window anymore.

Basically, I would like to know what I should do so it closes properly when I click the red cross on my main window (which has no parent).

Following this link, I tried a few things like:

```
QApplication app(argc, argv);
//...
app.connect(&app, SIGNAL(lastWindowClosed()), &app, SLOT(quit()));
return app.exec();

Or

QApplication app(argc, argv);
//...
app.setQuitOnLastWindowClosed(true);
return app.exec();
```

but neither work, the process still stays in memory, after the cross is clicked.

Then, how can I close correctly my program?

c++ qt

edited Jan 15 '14 at 15:54 asked Jun 12 '13 at 9:02

Kara

3,182 7 31 48

JBL

7,855 3 25 57

1 Answer

You can close your application manually using QApplication::quit().

By default the execution is terminated when the last top level window with the Qt::WA_QuitOnClose attribute has been closed. You don't need to connect lastWindowClosed to quit because it repeats the default setQuitOnLastWindowClosed (true) either because it's true by default. The code you've posted does nothing (if nothing is changed somewhere else).

Possible solutions:

- Check your main window attributes. Maybe you have removed Qt::WA_QuitOnClose
 office the part of the part
- If you have reimplemented closeEvent in your top level window, check that close event is being accepted.
- Check if there are some other top level widgets that may be hidden but not closed. Use
 QApplication::topLevelWidgets() to list them.

edited Jun 12 '13 at 21:24 answered Jun 12 '13 at 9:09

Pavel Strakhov

25.7k 3 31 79

Thanks, I'll try this. I did nothing with the <code>Qt::WA_QuitOnClose</code> attribute, though, but i'll try to reimplement <code>closeEvent()</code>, I didn't read anything about it while searching. — JBL Jun 12 '13 at 9:14

No, if you don't need to reimplement closeEvent, you should not do that. It must work fine by default. I meant that if you reimplemented closeEvent, your implementation may be incorrect. – Pavel Strakhov Jun 12 '13 at 9:18

Oh, indeed. Well, I haven't reimplemented it at all... So, what should I do then ? I must absolutely rely on <code>QApplication::quit()</code> ? – <code>JBL</code> Jun 12 '13 at 9:20

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c++ - How to close correctly a Qt program? - Stack Overflow http://stackoverflow.com/questions/17061572/how-to-close...

 $Check \ \ {\tt QApplication::topLevelWidgets()} \ . - {\tt Pavel Strakhov Jun 12'13} \ at \ 9:23$

Just saw there is actually 8 widgets in the list it returns. So that means that when my window exits, there's still 7 widget that are still present "at top level" and keep the program running (if I understand correctly)? I really don't know which these are. – JBL Jun 12 '13 at 9:29

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