General and Desktop (/category/10/general-and-desktop) / Signal/Slot unresolved overloaded function type QSpinBox (/topic/70868.rss)

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(/user/pauledd)pauledd (/user/pauledd) 3 Sep 2016, 17:11 (/post/345593)

Hi there

Today I stumbled upon an error that comes from connecting a QSpinBox valueChanged Signal to a void member function:

the connect statement:

```
connect(spinBoxUtc, &QSpinBox::valueChanged, this, &MainWindow::fillData);
```

and this is the private function fillData():

On compiling I get this error:

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```
connect(spinBoxUtc, &QSpinBox::valueChanged, this, &MainWindow::fillData);
  In file included from /usr/include/qt5/QtWidgets/qwidget.h:38:0,
                      from /usr/include/qt5/QtWidgets/QWidget:1,
                      from ../pat_tab/mainwindow.h:4,
                      from ../pat_tab/mainwindow.cpp:1:
  /usr/include/qt5/QtCore/qobject.h:254:13: note: template<class Func1, class Func2> static typename QtPrivate::QEnableIf<(((int))(Qt
                 connect(const typename QtPrivate::FunctionPointer<Func1>::Object *sender, Func1 signal, const QObject *context, Func2
  /usr/include/qt5/QtCore/qobject.h: 254: 13: \ note: \\ template argument deduction/substitution failed: \\
   ../pat_tab/mainwindow.cpp:99:74: note: couldn't deduce template parameter 'Func1
    connect(spinBoxUtc, &QSpinBox::valueChanged, this, &MainWindow::fillData);
Then I googled for a solution and found out to replace the connect statement with this which seems to work:
  connect(spinBoxUtc, static_cast<void(QSpinBox::*)(int)>(&QSpinBox::valueChanged), this, &MainWindow::fillData);
Can someone explain what this does and why all other connect statements in my code (see below) are working exept those that use a "valueChanged"?
  connect(comboBoxTime, &QComboBox::currentTextChanged, this, &MainWindow::fillData);
  connect(timeEditPolarisRa, &QTimeEdit::timeChanged, this, &MainWindow::fillData);
  connect(dateTimeEditCurrentTime, &QDateTimeEdit::dateTimeChanged, this, &MainWindow::fillData);
                                                                                                                                                 ~ 0 ~
SIGNAL & SLOT 74 (/tags/signal & slot) QSPINBOX 8 (/tags/qspinbox) CONNECT 33 (/tags/connect) ERROR 88 (/tags/error) OVERLOADED 1 (/tags/overloaded)
                                                                                                                                      Log in to reply (/login)
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Do vou have several fillData methods?
Mis-read..
                                                                                                                                                 ^0 ~
Need programmers to hire? www.edeltech.ch (http://www.edeltech.ch)
(/user/nischu)nischu (/user/nischu) 3 Sep 2016, 17:45 (/post/345599)
The 'connect' needs at argument 2 and 4 a function pointer.
Here in your compiler message you see some
note: no known conversion for argument 2 from '<unresolved overloaded function type>
That means argument 2 is overloaded, so that the compiler needs the exact signature for determining the exact method. So you give it this hint with your static cast.
The signature of a pointer to a method is: return_type (class_name::*)(argument_type1, ...)
The points of matter are the argument's types, that's needed for determining the right method.
If your methods are not overloaded, you can omit the cast, due this methods are unambiguous
    You can also use (Qt 5.7+):
  qOverload<int>(&QSpinBox::valueChanged)
instead of the static cast.
Even if we accept, as the basic tenet of true democracy, that one moron is equal to one genius, is it necessary to go a further step and hold that two morons are better than one genius?
🦃 (/user/sgast)SGaist (/user/sgaist) 📠 ығетіме qт снамрюм (/groups/lifetime-qt-champion) <u>3 Sep 2016, 17:50 (/post/345601)</u>
static_cast<void (QSpinBox::*)(int)>(&QSpinBox::valueChanged) is what you need. Or the QString version. W
                                                                                                               nich one doesn't matter since you don't use the FORUM UPDATED
argument.
                                                                                                                 This forum has just been updated to the
Starting with Qt 5.7 you can use qOverload (http://doc.qt.io/qt-5/qtglobal.html#qOverload).
                                                                                                                 latest version. Click here to refresh the
                                                                                                                 page
Need programmers to hire? www.edeltech.ch (http://www.edeltech.ch)
                                                               A 2 out of 7 ∨
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