Qt DOCUMENTATION

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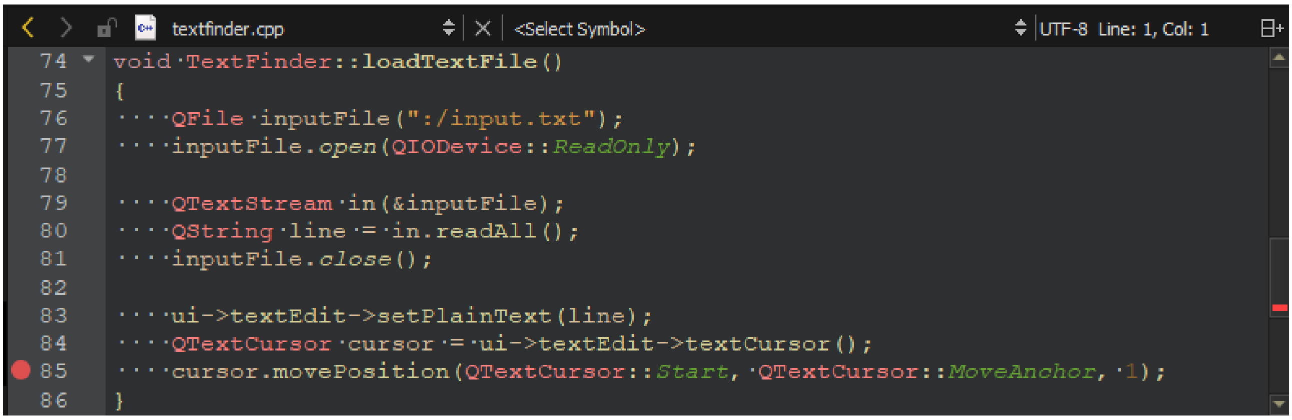
调试C++示例应用程序

本节使用文本查找器示例来说明如何在**调试模式下调试** Qt C++应用程序。

"文本查找器"将文本文件读入 QString，然后使用 QText 编辑功能显示该文件。若要查看"文本查找器"类并查看存储的数据，请在文本查找器.cpp中放置一个断点，如下所示：

1. 在行号和窗口边框之间单击，我们将在更改光标位置以设置断点的行上单击。



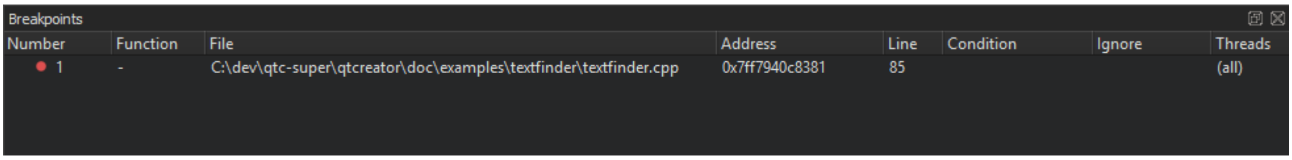
textfinder.cpp <Select Symbol> UTF-8 Line: 1, Col: 1

```
void TextFinder::loadTextFile()
{
    QFile inputFile(":/input.txt");
    inputFile.open(QIODevice::ReadOnly);

    QTextStream in(&inputFile);
    QString line = in.readAll();
    inputFile.close();

    ui->textEdit->setPlainText(line);
    QTextCursor cursor = ui->textEdit->textCursor();
    cursor.movePosition(QTextCursor::Start, QTextCursor::MoveAnchor, 1);
}
```

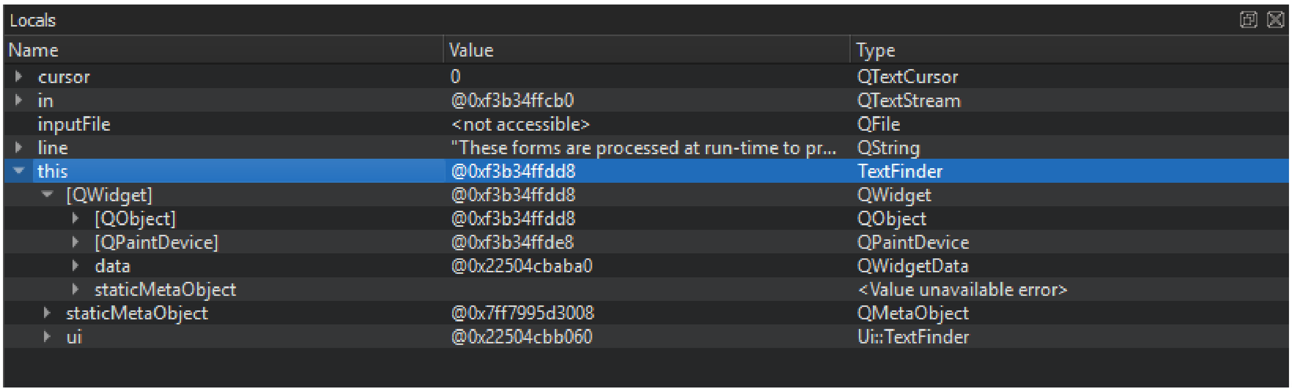
2. 选择"**调试>启动调试**">**启动项目的"启动调试**"或按 F5。
3. 若要查看有关断点的信息，请转到"**断点**"视图。



Breakpoints

Number	Function	File	Address	Line	Condition	Ignore	Threads
● 1	-	C:\dev\qtc-super\qtcreator\doc\examples\textfinder\textfinder.cpp	0x7ff7940c8381	85			(all)

4. 若要删除断点，请右键单击该断点，然后选择"**删除断点**"。
5. 若要查看 TextFinder 类的基类和数据成员，请转到"**局部变量**"视图。



Locals

Name	Value	Type
cursor	0	QTextCursor
in	@0xf3b34ffcb0	QTextStream
inputFile	<not accessible>	QFile
line	"These forms are processed at run-time to pr...	QString
this	@0xf3b34ffdd8	TextFinder
[QWidget]	@0xf3b34ffdd8	QWidget
[QObject]	@0xf3b34ffdd8	QObject
[QPaintDevice]	@0xf3b34ffde8	QPaintDevice
data	@0x22504cbaba0	QWidgetData
staticMetaObject		<Value unavailable error>
staticMetaObject	@0x7ff7995d3008	QMetaObject
ui	@0x22504cbb060	Ui::TextFinder

on_findButton_clicked()

```
void TextFinder::on_findButton_clicked()
{
    QString searchString = ui->lineEdit->text();

    QTextDocument *document = ui->textEdit->document();
    QTextCursor cursor = ui->textEdit->textCursor();
    cursor = document->find(searchString, cursor,
        QTextDocument::FindWholeWords);
    ui->textEdit->setTextCursor(cursor);

    bool found = cursor.isNull();

    if (!found && previouslyFound) {
        int ret = QMessageBox::question(this, tr("End of Document"),
        tr("I have reached the end of the document. Would you like "
        "me to start searching from the beginning of the document?"),
        QMessageBox::Yes | QMessageBox::No, QMessageBox::Yes);

        if (ret == QMessageBox::Yes) {
            cursor = document->find(searchString,
                QTextDocument::FindWholeWords);
            ui->textEdit->setTextCursor(cursor);
        } else
            return;
    }
    previouslyFound = found;
}
```

If you compile and run the above code, however, the application does not work correctly due to a logic error. To locate this logic error, step through the code using the following buttons: (**Stop Debugger**), (**Step Over**), (**Step Into**), and (**Step Out**).

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Debugging a Qt Quick Example Application ›

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