



Qt Creator Manual > <u>Debugging a C++ Example Application</u>

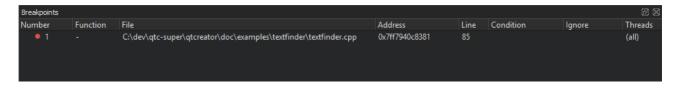
Debugging a C++ Example Application

This section uses the TextFinder example to illustrate how to debug Qt C++ applications in the **Debug** mode.

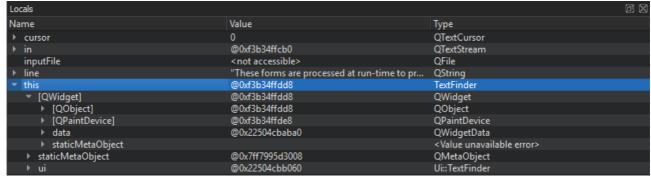
TextFinder reads a text file into QString and then displays it with QTextEdit. To look at the TextFinder class and see the stored data, place a breakpoint in textfinder.cpp, as follows:

1. Click in between the line number and the window border on the line where we change the cursor position to set a breakpoint.

- 2. Select Debug > Start Debugging > Start Debugging of Startup Project or press F5.
- 3. To view information about the breakpoint, go to the **Breakpoints** view.



- 4. To remove a breakpoint, right-click it and select **Delete Breakpoint**.
- 5. To view the base classes and data members of the TextFinder class, go to the **Locals** view.





Wodiry the on_TindButton_Ciicked() function to move back to the start of the document and continue searching once the cursor hits the end of the document. Add the following code snippet:

```
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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