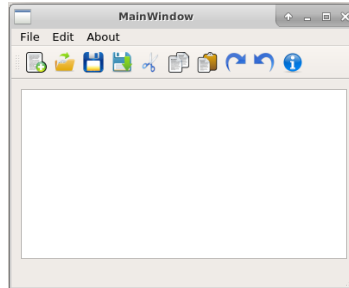


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1. QWidgetNotepad

* Projekt: Qnotepad



* Show Video:

<https://www.youtube.com/watch?v=j4j1gbYJtUw&index=26&list=PLS1OulWo1RIZiBcTr5urECberTITj7gjA>

* Inhalt:

- DESIGNER / MainWindow
- **QMenu**
- **TextEdit** (horiz. layout)
- **QMenu** (mit Icons)

```
File
    New
    Open
    ----
    Save
    Save As
Edit
    Cut
    Copy
    Paste
    -----
    Redo
    Undo
About
```

- ADD qrc (Qt Resource) für die Icons (02-ueben/icons)
- im Designer -> Action Editor (= links unten) -> Doppelklick auf actionNew
 - Icons auswählen
 - ... auch alle anderen
- im Designer -> Action Editor -> drag actionNew zur Toolbar
 - ... auch alle anderen
- im Designer -> Action Editor -> go to slot ...
 - ... auch alle anderen
- EDIT: copy, cut, paste

```
void MainWindow::on_actionCut_triggered()
{
    ui->textEdit->cut();
}
```

- FILE: new

```
class MainWindow
private:
    QString file_path;
    ...
```

```
void MainWindow::on_actionNew_triggered()
{
    file_path="";
    ui->textEdit->clear();
}
```

* Wir werden folgendes brauchen/tun:

- #include <QFile>
- #include <QFileDialog>
- #include <QTextStream>
- * FILE: open:
 - * QFileDialog
 - * file_path setzen
 - * file_path= filename
- * FILE: save
 - * file_path nutzen
- * FILE: save as
 - * QFileDialog
 - * file_path setzen
 - * file_path= filename

```
void MainWindow::on_actionOpen_triggered()
{
    QString filename= QFileDialog::getOpenFileName(this, "Open File");
    if (!filename.isEmpty()){
        QFile file(filename);
        if (!file.open(QFile::ReadOnly|QFile::Text)){
            QMessageBox::warning(this, "..", "file not open");
            return;
        }
        // remember !!!
        file_path= filename;
        QTextStream fin(&file);
        ui->textEdit->setText( fin.readAll());
        file.close();
    }
}
```

```
void MainWindow::on_actionSave_triggered()
{
    QFile file(file_path);
    if (!file.open(QFile::WriteOnly|QFile::Text)){
        QMessageBox::warning(this, "..", "file not open");
    }
}
```

```
        return;
    }

    QTextStream fout(&file);

    QString sout= ui->textEdit->toPlainText(); ///!!

    fout << sout;

    file.flush();
    file.close();
}
```

```
void MainWindow::on_actionSave_As_triggered()
{
    QString filename= QFileDialog::getSaveFileName(this, "Save as File");

    if (!filename.isEmpty()){
        QFile file(filename);

        if (!file.open(QFile::WriteOnly|QFile::Text)){
            QMessageBox::warning(this, "..", "file not open");
            return;
        }

        //remember
        file_path= filename;

        QTextStream fout(&file);
        QString sout= ui->textEdit->toPlainText(); ///!!
        fout << sout;
        file.flush();
        file.close();
    }
}
```

```
void MainWindow::on_actionAbout_triggered()
{
    QString about_text="Notepad<br>";
    about_text += "Author: A.Hofmann<br>";
    about_text += "<a href='https://www.youtube.com/watch?v=j4j1gbYJtUw&index=26&list=PLS1QulWo1RIZiBcTr5urECberTITj7gjA'>Quelle: URL</a>";

    QMessageBox msgBox(this);
    msgBox.setWindowTitle("About");
    msgBox.setTextFormat(Qt::RichText);
    msgBox.setText(about_text);
    msgBox.exec();
}
```

Quellen:

* Download Source:

<http://www.codebind.com/cpp-tutorial/qt-tutorials-for-beginners-simple-notepad-application/>

* Download Icons: <http://www.iconarchive.com/search?q=about>