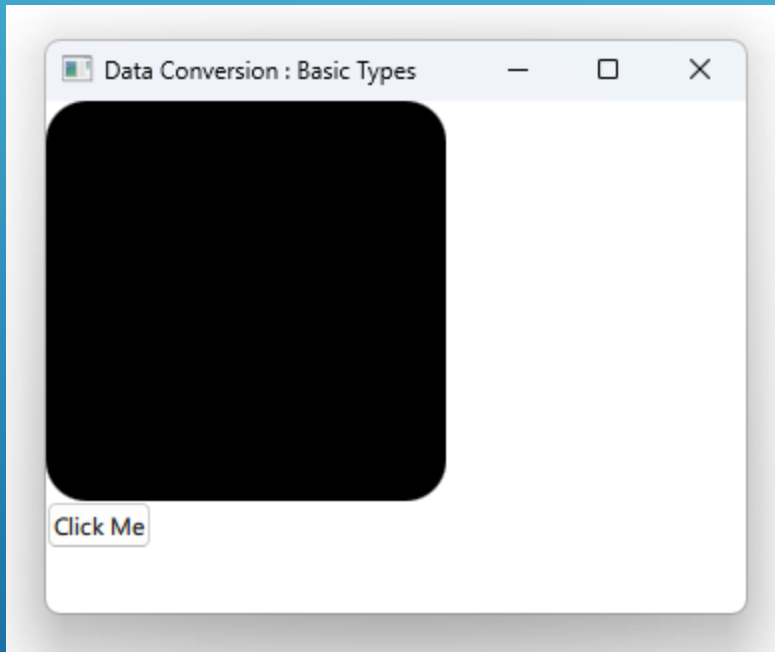


Notes to self

- . Exploring the exchange of data between C++ and QML
- . We do that by sending signals across the two sides and seeing what we receive on the other end
- . Improvise and learn from the Qt 5 course.

C++ and QML : Data Exchange



Sending data from C++

```
void CppClass::cppSlot()
{
    emit sendInt(123);
    emit sendDouble(123.45);
    emit sendBoolRealFloat(true, 34.12, 456.2);
    emit sendStringUrl("String from C++", QUrl("http://www.blikoontech.com"));
    emit sendColorFont(QColor(123, 20, 30), QFont("Times", 20, QFont::Bold));
    emit sendDate(QDate(1995, 4, 17));
    emit sendDate(QDate::currentDate());
    emit sendPoint(QPoint(100, 200), QPointF(45.54, 87.34));
    emit sendSize(QSize(200, 500), QSizeF(200.45, 500.45));
    emit sendRect(QRect(100, 100, 300, 300), QRectF(105.5, 105.5, 200.4, 200.4));
}
```

Receive data in QML

```
Connections {  
    target: CppClass  
  
    function onSendInt (param) {  
        console.log("Received int :" + param + " , type is :" + typeof param)  
    }  
  
    function onSendDouble (doubleParam) {  
        console.log("Received double :" + doubleParam + " , type is :" + typeof doubleParam)  
    }  
    //...  
}
```

Send data from QML

```
Button{
    id : mButton
    anchors.top: mRect.bottom
    text : "Click Me"
    onClicked: {
        //CppClass.receivePoint(Qt.point(200,300))
        CppClass.receiveRect(Qt.rect(40.10,40,100,100))
    }
}
```

Receive data in C++

```
void CppClass::receivePoint(QPoint point)
{
    qDebug() << "Received point from QML :" << point ;
}

void CppClass::receiveRect(QRectF rect)
{
    qDebug() << "Received rect from QML :" << rect ;
}
```