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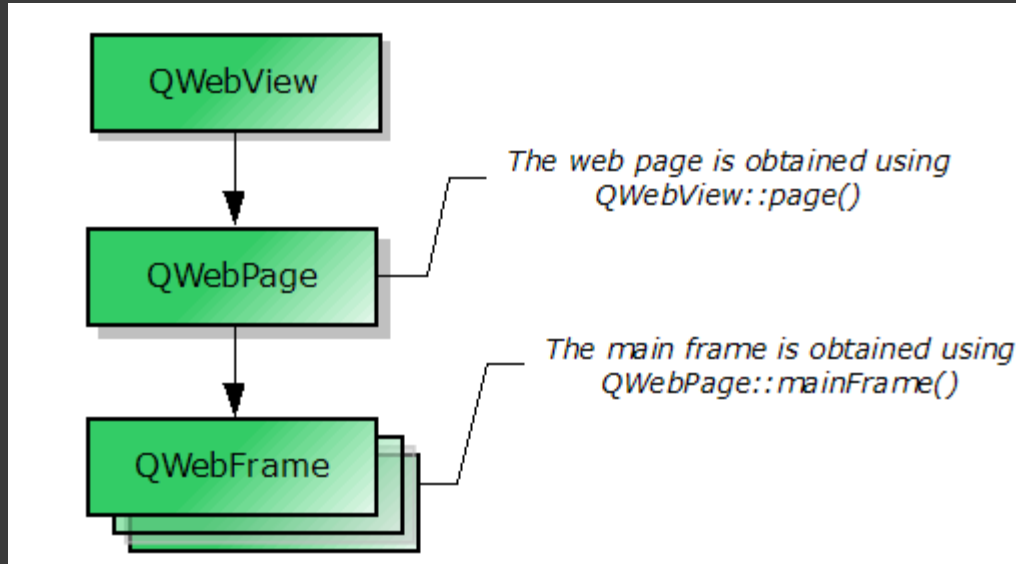
QT WEBKIT-BRIDGE

What is the Qt WebKit-Bridge?

- Uses QWebView embedded HTML and Java Script
- Access QObjectes in Java Script environment

QWebView

- Inherits QWidget



Essentials

Qt:

```
QWebView *view = new QWebView(parent);
```

```
view->load(QUrl(„yourUrl“);
```

```
view->show();
```

yourUrl can be any Website, or your own html, which is embedded in a qrc-file.

Add QObject

Qt:

```
QWebFrame *frame = myWebPage->mainFrame();
```

```
frame->addToJavaScriptWindowObject(QString("myQObject"), myObject);
```

Java Script:

```
myQObject;
```

Possibility of Datatransfer

Using:

- Slots and signal
- Invokable methods
- QProperties

Slots and signals

Qt-Slot:

```
emitData()  
{  
    emit sendData(data);  
}
```

Qt-Signal:

```
void sendData(datatype object);
```

Java Script:

```
function recieve(object)  
{  
    data = object;  
}  
  
myQObject.sendData.connect(recieve);
```

Slots and signals

Qt-Slot:

```
void invokeSignal()
{
    emit mySignal();
}
```

Java Script:

```
myQObject.invokeSignal();
```


Invokable methods

Qt:

```
Q_INVOKABLE int getData();
```

Java Script:

```
var data = myQObject.getData();
```

QProperty

Qt:

```
Q_PROPERTY (QString myProperty READ getProperty  
           WRITE setProperty)
```

Java Script:

```
var x = myQObject.myProperty; // calls getProperty
```

```
myQObject.myProperty = „Hello world!“; // calls setProperty
```

Data types

- ◉ Qt
- ◉ Int, float, qreal, etc.
- ◉ QString
- ◉ QList
- ◉ QMap
- ◉ QDate, QTime
- ◉ QChar
- ◉ Java Script
- ◉ Number
- ◉ String
- ◉ Array
- ◉ JSON object
- ◉ Date&Time
- ◉ Unicode / String

QVariant

- Variable data type
- Transforms to QVariantMap, QVariantList if necessary
- makes C++ programming feel a bit more like Java Script programming

Thank you for listening.

Any questions?