

# Get current Date and Time in Qt

This code example shows how to get current date and time using Qt C++ and QML. Note that the code example shows how to use Qt C++ APIs, while only code snippets are provided for QML.

## QML

The current date/time can be obtained in QML using Javascript's date:

```
var today = new Date() // contains current date and time
```

QML provides the [Qt.formatDate\(\)](#) and [Qt.formatDateTime\(\)](#) methods for formatting this value. You can also dynamically declare dates using the QML [date](#) basic type.

An example displaying the current date in YYMMDD format might look like:

```
Rectangle {  
    width: 200  
    height: 200  
    Text {  
        anchors.centerIn: parent  
        text: Qt.formatDateTime(new Date(), "yyMMdd")  
    }  
}
```

## Qt C++ API

The main Qt C++ methods for getting the current date and time are:

- [QDateTime::currentDateTime\(\)](#) returns the current date and time, as reported by the system clock, in the local time zone.
- [QDate::currentDate\(\)](#) returns the current date, as reported by the system clock, in the local time zone.
- [QTime::currentTime\(\)](#) returns the current time, as reported by the system clock, in the local time zone.

## Headers required

```
#include <QDateTime>
```

## Source

```
SystemTime::SystemTime(QWidget *parent)  
    : QMainWindow(parent)  
{  
    ui.setupUi(this);  
    setWindowTitle("System Time");  
    ui.statusbar->showMessage("Showing system time");  
  
    //get current date  
    QDate date = QDate::currentDate();  
    QString dateString = date.toString();  
    ui.label->setText("Date: " + dateString);  
  
    //get current time  
    QTime time = QTime::currentTime();  
    QString timeString = time.toString();
```

```
ui.label_2->setText("Time: " + timeString);

//get current date and time
QDateTime dateTime = QDateTime::currentDateTime();
QString dateTimeString = dateTime.toString();
ui.label_3->setText("Date and Time: " + dateTimeString);
}
```

## Screenshot

The code snippet is expected to show current date and time of device.



## Code Example

- The [Code Example](#) will show current date and time on screen and example is tested on Nokia 5800 XpressMusic.