

QString

```
// Qt's Unicode string class, used wherever you would use std::string in a Qt codebase. It handles
// international characters and encodings natively, and provides methods for common string operations //
// like splitting, trimming, and replacing. It interoperates with std::string via fromStdString() and
// toString().
QString qString = QString::fromStdString(stdString);
QString combined = QStringLiteral("literalPrefix") + qString;
```

QString::fromStdString

```
// A static factory method on QString that converts a std::string into a QString, bridging the standard
// C++ and Qt string ecosystems. It internally constructs a new QString by copying the character data
// across from the std::string. It is called on the class itself rather than an instance, signalling that
// it is a
// QString concern.
QString qString = QString::fromStdString(stdString);
```

QStringLiteral

```
QString literal = QStringLiteral("hardcodedValue");
```

A Qt macro that creates a QString from a hardcoded string literal at compile time rather than runtime, avoiding any memory allocation. It is used wherever you have a fixed string value baked directly into the code rather than a variable. For dynamic values coming from variables, `QString::fromStdString()` is used instead.

QString::fromLocal8Bit

```
QString errorOutput = QString::fromLocal8Bit(rawBytes);
```

A static factory method on QString that converts raw byte data into a QString using the local system's text encoding. It is used specifically for reading process error output since `readAllStandardError()` returns raw bytes rather than a proper string. It is preferred over `fromStdString()` sometimes because error messages from system processes are encoded in the local system encoding rather than UTF-8.

QString::trimmed()

```
QString cleaned = qString.trimmed();
```

A method on QString that returns a copy of the string with all leading and trailing whitespace removed, including spaces, newlines, and tabs. It is commonly used when reading output from external processes since they often append a newline to the end of their output. It does not modify the original string but returns a new cleaned copy.



By blakecromar

cheatography.com/blakecromar/

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