MessageDialog



QML Quick Reference

Basic Syntax

// Simple QML example import QtQuick 2.6 Rectangle { width: 640 height: 480 Text { anchors.centerIn: parent text: "Hello, world!" MouseArea { anchors.fill: parent onClicked: { Qt.quit()

QML Basic Types

bool double enumeration int list real strina url var

Qt Quick Basic Types ("import QtQuick 2.6")

color date font point matrix4x4 quaternion vector2d size vector3d vector4d

Qt Quick XmlListModel QML Types ("import QtQuick.XmlListModel 2.0")

XmlListModel

XmlRole

Qt Quick Window QML Types ("import QtQuick.Window 2.2")

CloseEvent StackLayout Screen Window

Qt Quick Object Types ("import QtQuick 2.6")

Visual Types

Accessible ItemLoader AnimatedImage Rectangle AnimatedSprite Repeater BorderImage Rotation FontLoader Scale Gradient Screen GradientStop Sprite Image SpriteSequence

AnchorAnimatio

AnchorChanges

ColorAnimation

OpacityAnimator

Model/View

Animation

Behavior

PathView

Controller

User Input

DoubleValidator Drag DragEvent DropArea EnterKev Flickable FocusScope

IntValidator

TextMetrics

WorkerScript

Timer

Turbulence

Wander

KeyEvent KevNavigation Keys MouseArea MouseEvent MultiPoint TouchArea

PinchArea

PinchEvent Column RegExpValidator Flow Shortcut TextEditTextInput TouchPoint WheelEvent

Grid LayoutMirroring Positioner Row

Positioning

Qt Test

SignalSpy Property Sequential StateGroup Animation Animation Transition TestCase Property Changes Smoothed UniformAnimator

Rotation Animation Animation Vector3dAnimation RotationAnimator SpringAnimation ViewTransition ScaleAnimator XAnimator State ScriptAction YAnimator StateChange

Script

ParallelAnimation

ParentAnimatio

ParentChange

PathAnimation

GridView VisualDataGroup VisualDataModel ListElement ListModel VisualItemModel ListView XmlListModel Package XmlRole

NumberAnimation PathAttribute

■ States, Transitions and Animations

Path

PathArc

PathCubic

Convenience Bindina Connections

SystemPalette

Transform

Translate

PathCurve

PathLine

PathPercent

PathQuad

PathSvg

PathInterpolator

PauseAnimation

PropertyAction

Window

Text

FontMetrics ItemGrabResult Matrix4x4 OpenGLInfo

Graphical Effects

Flipable GridMesh ShaderEffect ShaderEffect Source

Canvas

Canvas CanvasGradient CanvasImageData CanvasPixelArray Context2D **TextMetrics**

Qt Quick Particles QML Types ("import QtQuick.Particles 2.0")

Affector **ItemParticle** Age LineShape AngleDirection MaskShape Attractor Particle CumulativeDirection ParticleGroup CustomParticle ParticlePainter Direction **ParticleSystem** PointDirection EllipseShape RectangleShape Emitter Friction Shape Gravity SpriteGoal GroupGoal **TargetDirection** ImageParticle TrailEmitter

Qt Quick Controls QML Types ("import QtQuick.Controls 1.5")

Action MenuSeparator TabView **ApplicationWindow** ProgressBar **TableView** BusyIndicator RadioButton **TableView** ScrollView Button Column Slider TextArea Calendar CheckBox SpinBox TextField ComboBox SplitView ToolBar ExclusiveGroup Stack **ToolButton** StackView TreeView GroupBox Label StackViewDelegate StatusBar Menu MenuBar Switch Tab Menultem

Qt Quick Dialogs QML Types ("import QtQuick.Dialogs 1.2")

ColorDialog FileDialog Dialog FontDialog

Qt Quick Layouts QML Types ("import QtQuick.Layouts 1.3")

ColumnLayout Layout GridLayout RowLayout

Other QML Modules

QtWebEngine 1.2 QtAudioEngine 1.0 QtWebSockets 1.0 Enginio 1.0 OtWebView 1.0 Qt.labs.calendar 1.0 Qt.labs.controls 1.0 Qt.labs.folderlistmodel 2.1 Qt.labs.settings 1.0 Qt.labs.templates 1.0 Qt3D.Core 2.0 Qt3D.Input 2.0 Qt3D.Logic 2.0 Qt3D.Render 2.0 OtBluetooth 5.6 QtCanvas3D 1.1 QtGraphicalEffects 1.0 QtLocation 5.6 QtMultimedia 5.6 OtNfc 5.6 QtPositioning 5.6 QtQml 2.2 QtQml.Models 2.3 QtQml.StateMachine 1.0 QtQuick 2.6 QtQuick.Controls 1.5 QtQuick.Dialogs 1.2 QtQuick.Extras 1.4 QtQuick.Layouts 1.2 QtQuick.LocalStorage 2.0 QtQuick.Particles 2.0 QtQuick.PrivateWidgets 1.1 QtQuick.Scene3D 2.0 OtQuick Window 2 2

QtQuick.XmlListModel 2.0

QtSensors 5.6

QtWebChannel 1.0

QtTest 1.0

QML Item Properties

activeFocus activeFocusOnTab anchors anchors.align WhenCentered anchors.baseline anchors.baselineOffset anchors.bottom anchors.bottomMargin anchors.centerIn anchors.fill anchors.horizontalCenter anchors.horizontal

anchors.left anchors.leftMargin nchors.margins anchors.right anchors.rightMargin anchors.top anchors.topMargin anchors.verticalCenter anchors.vertical CenterOffset antialiasing baselineOffset children

childrenRect.width childrenRect.x childrenRect.y clip data enabled focus height implicitHeight implicitWidth layer.effect

layer.enabled

layer.format

layer.mipmap

layer.samplerName layer.smooth layer.sourceRect layer.textureSize layer.textureMirroring layer.wrapMode objectName opacity parent resources rotation

scale

state

childAt

contains

smooth

forceActiveFocus

grabToImage

states

visible

width

Х

У

7

mapFromItem

nextItemInFocusChain

mapToItem

transform

transitions

transformOrigin

visibleChildren

QML Program Options

Usage: qml [options] [files] **General Options:**

-h, -help..... Print this usage information and exit -v, -version Print the version information and exit -apptype [core|gui|widget] Select which application class to use Default is qui

-quiet Suppress all output -I [path]......Prepend the given path to the import paths

-f [file]..... Load the given file as a QML file -config [file]..... Load the given file as the configuration file -- Arguments after this one are ignored by the launcher,

but may be used within the QML application

GL options:

-desktop Force use of desktop GL -gles Force use of GLES -software Force use of software rendering -scaling..... Enable High DPI scaling -no-scaling Disable High DPI scaling

Debugging options:

-verbose Print information about what QML is doing, like specific file URLs being loaded -translation [file] Load the given file as the translations file -dummy-data [directory] Load QML files from the given directory as context properties

-slow-animations...... Run all animations in slow motion

-fixed-animations Run animations off animation tick rather than wall time

Can make QML files executable on Linux/Unix/POSIX systems by adding first line like the following: #!/usr/bin/env gml

QML Global Object

childrenRect.height

Qt Object

CenterOffset

application qsTrNoOp() hsva include() qsTranslate() atob() inputMethod qsTranslateNoOp() binding() isQtObject() quatenion() btoa() colorEqual() lighter() quit() createComponent() locale() rect() createQmlObject() matrix4x4() resolvedUrl() darker() md5() rgba() font() openUrlExternally() size() fontFamilies() platform styleHints formatDate() point() tint() formatDateTime() qsTr() vector2d() formatTime() qsTrld() vector3d() hsla() qsTrldNoOp() vector4d()

QML Profiler Options

QML Item Methods

qmlprofiler [options] [program] [program-options] qmlprofiler [options] -a,-attach <hostname>

Options:

-p,--port <number> TCP/IP port to use, default is 3768 -o, --output <file>...... Save tracing data in <file> --record <on|off>......Controls whether recording starts immediately --include <feature,...> Comma-separated list of features to include when recording --exclude <feature,...> ... Comma-separated list of features to exclude when recording --interactive Manually control the recording from the command line --verbose......Print debugging output -h,--help Displays help information -v,--version Displays version information

QML Environment Variables

QML2 IMPORT PATH QSG INFO QMLSCENE DEVICE QSG NO DEPTH BUFFER QMLSCENE IMPORT NAME QSG NO STENCIL BUFFER QML ANIMATION TICK DUMP QSG OPENGL DEBUG QML BAD GUI RENDER LOOP QSG PREFER FULLSIZE QML CHECK TYPES **GLYPHCACHE TEXTURES** QML_DEBUG_LEAK_BACKTRACE QSG_RENDERER_BATCH_NODE_THRESHOLD QML DISABLE DISTANCEFIELD QSG RENDERER BATCH VERTEX THRESHOLD QML_DUMP_ERRORS QSG RENDERER BUFFER STRATEGY QML FBO FLUSH BEFORE DETACH QSG RENDERER DEBUG QML FBO OVERLAY QSG RENDER LOOP QML FORCE THREADED RENDERER QSG RENDER TIMING QML IMPORT TRACE **QSG TRANSIENT IMAGES** QML LEAK CHECK QML LOOKUP HINTS QML NO TOUCH COMPRESSION QML PARENT TEST QML PARTICLES DEBUG

QML_USE_GLYPHCACHE_WORKAROUND

QSG_ATLAS_NO_BGRA_WORKAROUNDS

QSG ATLAS USE BGRA FALLBACK

QSG DISTANCEFIELD ANTIALIASING

QSG FIXED ANIMATION STEP

QML_VISUAL_TOUCH_DEBUGGING

QSG ANTIALIASING METHOD

QML XHR DUMP

QSG ATLAS HEIGHT

QSG ATLAS OVERLAY

QSG ATLAS WIDTH

QSG ATLAS SIZE LIMIT

QSG VISUALIZE QT HIGHDPI DISABLE 2X IMAGE LOADING QT QUICK CORE PROFILE

QML JavaScript Debugger Options

Run application with option

port from[,port to] [,host:

-qmlisdebugger=port:

ip address][,block]

QV4 FORCE INTERPRETER QV4 MM AGGRESSIVE GC QV4_MM_MAXBLOCK_SHIFT QV4_MM_MAX_CHUNK_SIZE QV4 MM STATS

QV4_NO_INTERPRETER_STACK_

SLOT ALLOCATION QV4 NO OPT QV4 NO REGALLOC QV4 NO SSA

QV4 PROFILE WRITE PERF MAP

QV4 SHOW ASM QV4 SHOW IR STATECHANGE DEBUG

Qmlscene Options

Usage: qmlscene [options] filename Options:

maximized	.Run maximized
fullscreen	.Run fullscreen
transparent	.Make the window transparent
multisample	Enable multisampling
	(OpenGL anti-aliasing)
no-version-detection	Do not try to detect the version of
	the .qml file
slow-animations	Run all animations in slow motion
resize-to-root	.Resize the window to the size of the
	root item
quit	.Quit immediately after starting
disable-context-sharing	.Disable the use of a shared GL
	context for QtQuick Windows
desktop	Force use of desktop GL
gles	
software	.Force use of software rendering
scaling	Enable high DPI scaling
no-scaling	
verbose	Print version and graphical diagnostics
	for the run-time
	.Add <i>path</i> to the list of import paths
-B name file	
-translation translationfile	.Set the language to run in

16-March-2016

Debugging Functions

console.profileEnd console.assert console.count console.time console.debua console timeEnd console.error console.trace console.exception console.warn console.info console.error console.loa print