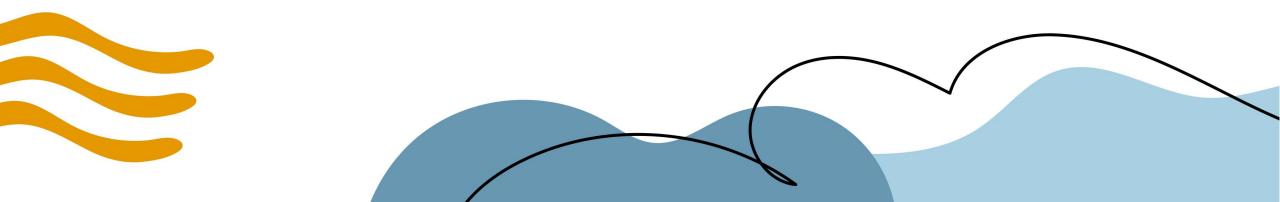
Разбор QML-программ



clocks X #include <QQmlEngine> main.cpp #include <QQmlFileSelector> #include <QQuickView> ∨ is clocks int main(int argc, char *argv[]) a clocks.pro Исходники main.cpp QCoreApplication::setAttribute(Qt::AA EnableHighDpiScaling); London Oslo Ресурсы QCoreApplication::setOrganizationName("QtExamples"); ✓ Image QML content QGuiApplication app(argc, argv); Clock.gml clocks.qml QQuickView view; Другие файлы view.connect(view.engine(), &QQmlEngine::quit, &app, &QCoreApplication::quit); content arrow.png view.setSource(QUrl("qrc:/demos/clocks/clocks.qml")); background.png if (view.status() == QQuickView::Error) center.png return -1: clock-night.png view.setResizeMode(QQuickView::SizeRootObjectToView); clock.png view.show(); hour.png return app.exec(); minute.png guit.png second.png

QT

+= qml quick

```
import QtQuick 2.15
import "content" as Content
Rectangle {
  id: root
  width: 640; height: 320; color: "#646464"
  ListView {
    id: clockview
    anchors.fill: parent
    orientation: ListView.Horizontal
    cacheBuffer: 2000 // размер области для хранения делег.
    snapMode: ListView.SnapOneItem// поведение прокрутки
    highlightRangeMode: ListView.ApplyRange
    delegate: Content.Clock { city: cityName; shift: timeShift }
    model: ... } // ListModel place
  Image {
    anchors.left: parent.left
    anchors.bottom: parent.bottom
    anchors.margins: 10
    source: "content/arrow.png"
    rotation: -90
    opacity: clockview.atXBeginning?0:0.5
    Behavior on opacity { NumberAnimation { duration: 500 } }
  ... // another arrow place
```

clock.qml

```
ListElement { cityName: "New York"; timeShift: -4 }
ListElement { cityName: "London"; timeShift: 0 }
ListElement { cityName: "Oslo"; timeShift: 1 }
ListElement { cityName: "Mumbai"; timeShift: 5.5 }
ListElement { cityName: "Tokyo"; timeShift: 9 }
ListElement { cityName: "Brisbane"; timeShift: 10 }
ListElement { cityName: "Los Angeles"; timeShift: -8 }
}
```

```
Image {
    anchors.right: parent.right
    anchors.bottom: parent.bottom
    anchors.margins: 10
    source: "content/arrow.png"
    rotation: 90
    opacity: clockview.atXEnd ? 0 : 0.5
    Behavior on opacity { NumberAnimation { duration: 500 } }
}
```

```
import QtQuick 2.15
Item {
                                                              Content/Clock.qml
  id: clock
  width: {
    if (ListView.view && ListView.view.width >= 200)
      return ListView.view.width / Math.floor(ListView.view.width / 200.0);
    else return 200;
  height: {
    if (ListView.view && ListView.view.height >= 240)
      return ListView.view.height;
    else return 240;
  ...// property
  function timeChanged() { . . . } -
  Timer { . . . }
  Item {
    anchors.centerIn: parent
    width: 200; height: 240
    Image { id: background; source: "clock.png"; visible: clock.night == false }
    Image { source: "clock-night.png"; visible: clock.night == true }
    Image { . . . }
    Image { . . . }
    Image { . . . }
    Image { anchors.centerIn: background; source: "center.png" }
    Text { . . . }
```

```
property alias city: cityLabel.text
property int hours
property int minutes
property int seconds
property real shift
property bool night: false
property bool internationalTime: true //Unset for local time
```

```
Timer {
    interval: 100 // mc
    running: true; repeat: true;
    onTriggered: clock.timeChanged()
}
```

```
id: cityLabel
    y: 210;
    anchors.horizontalCenter: parent.horizontalCenter
    color: "white"
    font.family: "Helvetica"
    font.bold: true; font.pixelSize: 16
    style: Text.Raised; styleColor: "black"
}
Clock.qml
```

```
Image {
      x: 97.5; y: 20
      source: "second.png"
      transform: Rotation {
        id: secondRotation
            origin.x: 2.5; origin.y: 80;
            angle: clock.seconds * 6
            Behavior on angle {
                SpringAnimation { spring: 2; damping: 0.2; modulus: 360 }
            }
        }
    }
}
```

```
Image {
    x: 92.5; y: 27
    source: "hour.png"
    transform: Rotation {
        id: hourRotation
        origin.x: 7.5; origin.y: 73;
        angle: (clock.hours * 30) + (clock.minutes * 0.5)
        Behavior on angle {
            SpringAnimation { spring: 2; damping: 0.2; modulus: 360 }
        }
    }
}
```

```
Image {
    x: 93.5; y: 17
    source: "minute.png"
    transform: Rotation {
        id: minuteRotation
        origin.x: 6.5; origin.y: 83;
        angle: clock.minutes * 6
        Behavior on angle {
            SpringAnimation { spring: 2; damping: 0.2; modulus: 360 }
        }
    }
}
```



```
#include <QGuiApplication>
#include <QQmlEngine>
#include <QQmlFileSelector>
#include <QQuickView>
int main(int argc, char *argv[])
  QCoreApplication::setAttribute(Qt::AA EnableHighDpiScaling);
  QCoreApplication::setOrganizationName("QtExamples");
  QGuiApplication app(argc, argv);
  QQuickView view;
  view.connect(view.engine(), &QQmlEngine::quit, &app, &QCoreApplication::quit);
  view.setSource(QUrl("grc:/demos/maroon/maroon.gml"));
  if (view.status() == QQuickView::Error)
    return -1;
  view.setResizeMode(QQuickView::SizeRootObjectToView);
  view.show();
  return app.exec();
```

♦ 17. €9 🕂 🖸 Проекты maroon **()** 0 👍 170 maroon.pro * Исходники QC main.cpp Ресурсы GAME OVER maroon.qrc You saved 3 fishes! /demos/maroon content audio gfx mobs maroon towers BuildButton.qml **()** 0 🌞 110 GameCanvas.qml GameOverScreen.qml * InfoBar.qml 🌋 logic.js NewGameScreen.qml SoundEffect.qml maroon.qml **NEW GAME**

```
import QtQuick 2.0
import QtQuick.Particles 2.0
import "content"
import "content/logic.js" as Logic
Item {
  id: root
  width: 320
  height: 480
  property var gameState
  property bool passedSplash: false
 // Image_background *
 // Column_Screen **
  property int countdown: 10
 // Timer{ . . . }***
  states: ...
  transitions: . . .
Component. on Completed: gameState =
       Logic.newGameState(canvas);
```

```
Image {
              source: "content/gfx/background.png"
                                                             ***
                   ors.bottom: view.bottom
maroon.gml
                                                             Timer {
              rui iicleSystem {
                                                                 id: gameStarter
                id: particles
                                                                 interval: 4000
                anchors.fill: parent
                                                                 running: false
                ImageParticle {
                                                                 repeat: false
                  id: bubble; anchors.fill: parent
                                                                 onTriggered: Logic.startGame(canvas);
                  source: "content/gfx/catch.png"
                  opacity: 0.25
                Wander { xVariance: 25; pace: 25; }// изменение траектории в сек
                Emitter {
                  width: parent.width
                  height: 150
                  anchors.bottom: parent.bottom
                  anchors.bottomMargin: 3
                  startTime: 15000
                  emitRate: 2
                  lifeSpan: 15000
                  acceleration: PointDirection{ y: -6; xVariation: 2; yVariation: 2 }
                  size: 24; sizeVariation: 16
```

```
**
Column {
    id: view
    y: -(height - 480); width: 320
    GameOverScreen { gameCanvas: canvas }
    Item {
      id: canvasArea
      width: 320; height: 480
      ROWs WAVE...
      IMAGEs_SUNLIGHT . . .
     Image { source: "content/gfx/grid.png"; opacity: 0.5
     . . . ->
```

```
Row {
        height: childrenRect.height
        Image { id: wave; y: 30; source:"content/gfx/wave.png" }
        Image { y: 30; source: "content/gfx/wave.png" }
        NumberAnimation on x { from: 0; to: -(wave.width);
                                 duration: 16000; loops: Animation.Infinite }
        SequentialAnimation on y {
          loops: Animation.Infinite
          NumberAnimation { from: y - 2; to: y + 2; duration: 1600;
                                  easing.type: Easing.InOutQuad }
          NumberAnimation { from: y + 2; to: y - 2; duration: 1600;
                                  easing.type: Easing.InOutQuad }
 Row {
      opacity: 0.5
      Image { id: wave2; y: 25; source: "content/gfx/wave.png" }
      Image { y: 25; source: "content/gfx/wave.png" }
      NumberAnimation on x { from: -(wave2.width); to: 0; duration: 32000;
                                        loops: Animation.Infinite }
      SequentialAnimation on y {
          loops: Animation.Infinite
          NumberAnimation { from: y + 2; to: y - 2; duration: 1600;
                                 easing.type: Easing.InOutQuad }
          NumberAnimation { from: y - 2; to: y + 2; duration: 1600;
                                easing.type: Easing.InOutQuad }
```

```
Image {
        source: "content/gfx/sunlight.png"
        opacity: 0.02; y: 0
        anchors.horizontalCenter: parent.horizontalCenter
        transformOrigin: Item.Top
        SequentialAnimation on rotation {
           loops: Animation.Infinite
           NumberAnimation { from: -10; to: 10; duration: 8000; easing.type: Easing.InOutSine }
           NumberAnimation { from: 10; to: -10; duration: 8000; easing.type: Easing.InOutSine }
Image {
        source: "content/gfx/sunlight.png"
        opacity: 0.04; y: 20
        anchors.horizontalCenter: parent.horizontalCenter
        transformOrigin: Item.Top
        SequentialAnimation on rotation {
           loops: Animation.Infinite
           NumberAnimation { from: 10; to: -10; duration: 8000; easing.type: Easing.InOutSine }
           NumberAnimation { from: -10; to: 10; duration: 8000; easing.type: Easing.InOutSine }
```

```
GameCanvas {
    id: canvas
    anchors.bottom: parent.bottom
    anchors.bottomMargin: 20
    x: 32;
               focus: true
  InfoBar { anchors.bottom: canvas.top; anchors.bottomMargin: 6; width: parent.width }
  //3..2..1..go
  Timer {
    id: countdownTimer
    interval: 1000
    running: root.countdown < 5
    repeat: true
    onTriggered: root.countdown++
  Repeater {
    model: ["content/gfx/text-blank.png", "content/gfx/text-3.png", "content/gfx/text-2.png", "content/gfx/text-1.png", "content/gfx/text-go.png"]
    delegate: Image {
      visible: root.countdown <= index
      opacity: root.countdown == index ? 0.5 : 0.1
      scale: root.countdown >= index ? 1.0 : 0.0
      source: modelData
      Behavior on opacity { NumberAnimation {} }
      Behavior on scale { NumberAnimation {} }
NewGameScreen { onStartButtonClicked: root.passedSplash = true }
```