

1. Use properties bindings instead of functions

<pre>Rectangle {   id: firstRect   width: Math.min(otherRect.width, 10)   color: "grey" }</pre>	<pre>Rectangle {   id: firstRect   color: "grey"   Component.onCompleted: {     firstRect.width = (otherRect.width &lt; 10) ?       otherRect.width : 10;   } }</pre>
DO	DON'T

2. Avoid as much as possible treatment in JavaScript

3. Use Loader as soon as necessary

4. Use properties or connections to access to external QML objects (in other file)

<pre>Item {   id: root   property real aSize: 10    Rectangle {     width: root.aSize   } }</pre>	<pre>Item {   id: root    Rectangle {     width: externalObject.aSize   } }</pre>
DO	DON'T

5. The root item is named «root»

<pre>Item {   // This is my root item   id: root }</pre>	<pre>Item {   // This is my root item   id: myItem }</pre>
DO	DON'T

6. Prefix external object properties calls by id for readability

<pre>Item {   id: parentItem   property real aSize: 10    Rectangle {     width: parentItem.aSize   } }</pre>	<pre>Item {   id: parentItem   property real aSize: 10    Rectangle {     width: aSize   } }</pre>
DO	DON'T

7. Always use anchors and layout for the items position

<pre>ListView {   id: myListView   anchors {left: leftItem.right} }</pre>	<pre>ListView {   id: myListView   x: rect1.y + rect1.height   y: 55 }</pre>
DO	DON'T

8. Do not use anchors on an item that is an immediate child of a layout

<pre>RowLayout {   Rectangle {     Layout.fillWidth: true     Layout.minimumWidth: 55   } }</pre>	<pre>RowLayout {   Rectangle {     anchors {left: leftItem.right}   } }</pre>
DO	DON'T

9. Use QObject to declare internal / private properties

10. Use states and enum to increase readability and maintainability

<pre>property bool opened  states: [   State {     name: "open"     when: root.openned     // states for property changing   },   ... ] transitions: [   // transitions for animations ]</pre>	<pre>property bool opened  onOpenedChanged: {   if(root.openned) {     // do this   }   else {     // do that   } }</pre>
DO	DON'T

11. Use QML more for UI and let Qt/C++ handle the backend

12. Avoid directly manipulating the QML object tree using C++

13. Use group properties with the group notation for readability

<pre>Item {   id: myItem   font {     family: "Arial"     bold: true   } }</pre>	<pre>Item {   id: myItem   font.family: "Arial"   font.bold: truev }</pre>
DO	DON'T

14. Always check if a c++ pointer or javascript object isn't null or undefined

<pre>Item {   id: myItem   myObject: DUtils.isValid(toto.objectCpp) ?     toto.objectCpp : undefined }</pre>	<pre>Item {   id: myItem   myObject: toto.objectCpp   // may trigger qml warning }</pre>
DO	DON'T

15. A role name must always begins by the letter «r» meaning «role»

<pre>ListView{   id: myListView   delegate: Text { text: rText } }</pre>	<pre>ListView{   id: myListView   delegate: Text { text: text }   // will not use the role but the text   property }</pre>
DO	DON'T

16. Use var type only when necessary

<pre>property string name property int size property MyMenu optionsMenu</pre>	<pre>property var name property var size property var optionsMenu</pre>
DO	DON'T

17. Performance considerations

Binding expressions : things to avoid

- Declaring intermediate JavaScript variables (except for caching purpose)
- Accessing "var" properties
- Calling JavaScript functions
- Constructing closures or defining functions within the binding expression
- Accessing properties outside of the immediate evaluation scope

Rendering considerations

- Clipping is disabled by default, and should only be enabled when required.
- If you have elements which are totally covered by other (opaque) elements, it is best to set their "visible" property to false or they will be drawn needlessly.
- Opaque content is generally a lot faster to draw than translucent