Qt Android App as Default Launcher – Final Reference Steps

This document shows the exact order to install a Qt APK, test-launch it, convert it into a system HOME launcher, and make it permanent after boot.

1. ADB reset & device check

```
adb kill-server

sudo adb kill-server

adb start-server

adb devices
```

2. System debug checks (optional)

```
ls /dev/fb*

ls /dev/dri/

cat /proc/cmdline
```

3. Navigate to APK location

```
cd ~/Desktop/qt-qml/333333/build/32bit-apk/android-build/build/outputs/apk/debug

ls
```

4. Install APK (user app stage)

```
adb install -r android-build-debug.apk
```

5. Test-launch APK (Launcher verification)

```
adb shell monkey -p org.qtproject.example.CarInfotainment \
-c android.intent.category.LAUNCHER 1
```

6. Enable root & remount system

```
adb root

adb remount
```

7. Deploy APK as system app (priv-app)

```
adb shell mkdir /system/priv-app/QtLauncher

adb push android-build-debug.apk /system/priv-app/QtLauncher/QtLauncher.apk
```

8. Reboot to register system app

```
adb reboot
```

9. Disable stock launcher

```
adb shell pm disable-user --user 0 com.android.launcher
```

10. Set Qt app as default HOME launcher

```
adb shell cmd package set-home-activity \
org.qtproject.example.CarInfotainment/org.qtproject.qt5.android.bindings.QtActivity
```

11. Test HOME key

```
adb shell input keyevent KEYCODE_HOME
```

12. Final reboot verification

```
adb reboot
```