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# Why?

- Works on Linux, mac, windows, ios, android, all desktop and all embedded environment
- Low-level access from a high-level common environment
- Porting existing app like game, multimedia, etc to multiple desktop, console, or mobile platforms
- Saves time in development like UI, multithreading, Graphics, Networks



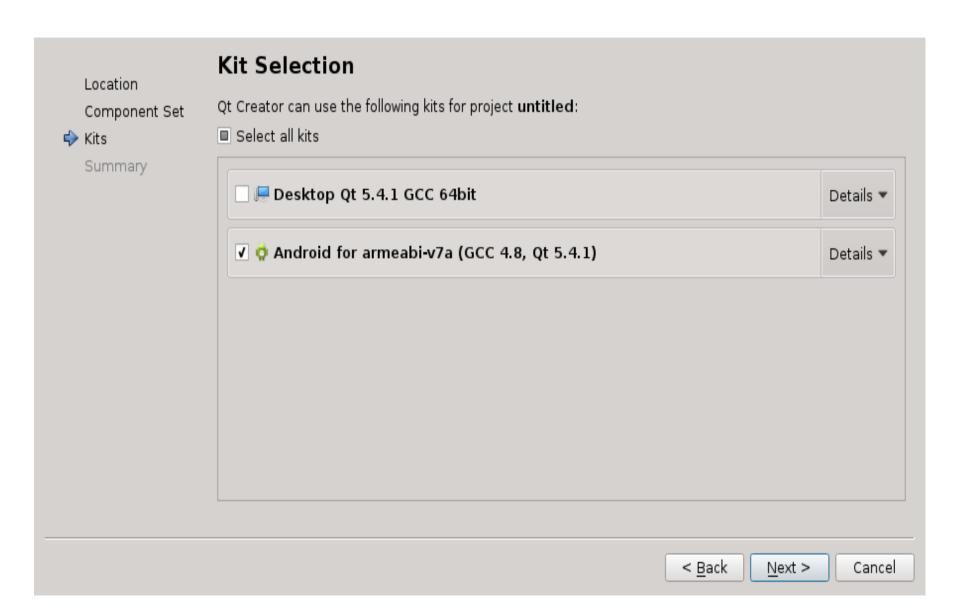
#### Prerequisite

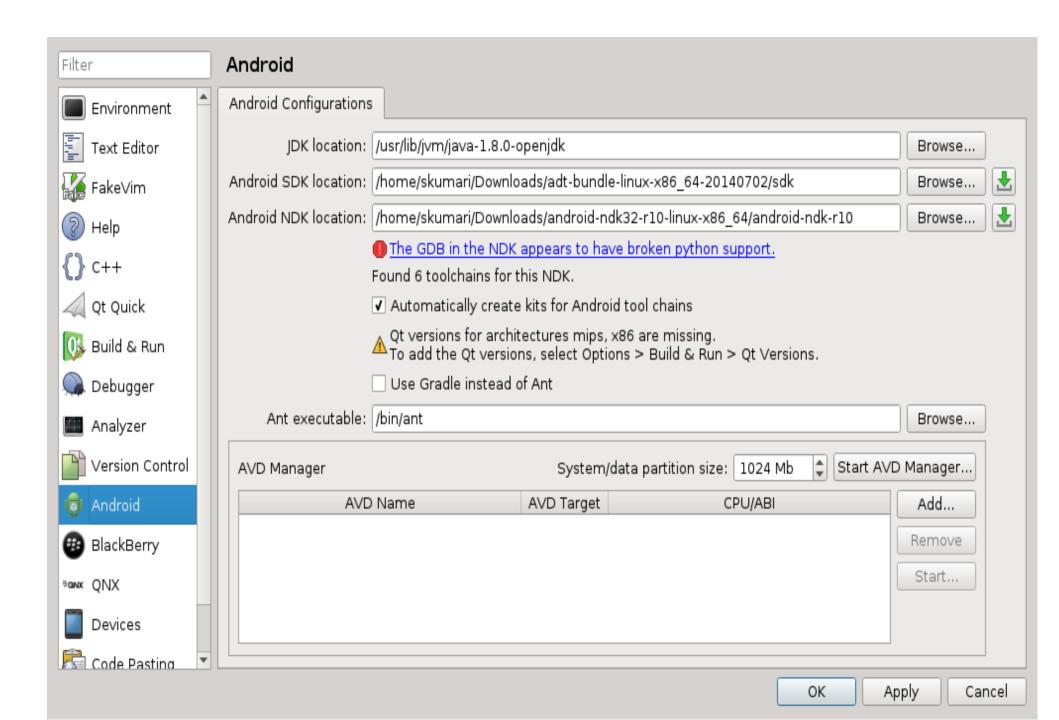
- Qt5 installer & run to install Qt Creator
- The Android SDK Tools
- Android NDK For native code language (c/c++)
- Apache Ant v1.8 or later
- Java SE Development Kit (JDK) v6 or later



#### Setting up Environment

- Launch Qt Creator
- Create new project and select Android instead of Desktop application
- Set up path for JDK, Android SDK and NDK location, Ant path. Later you can change through tools->options->Android





#### Coding using Qt/QtQuick

Source code -

https://github.com/sinnykumari/Imgs



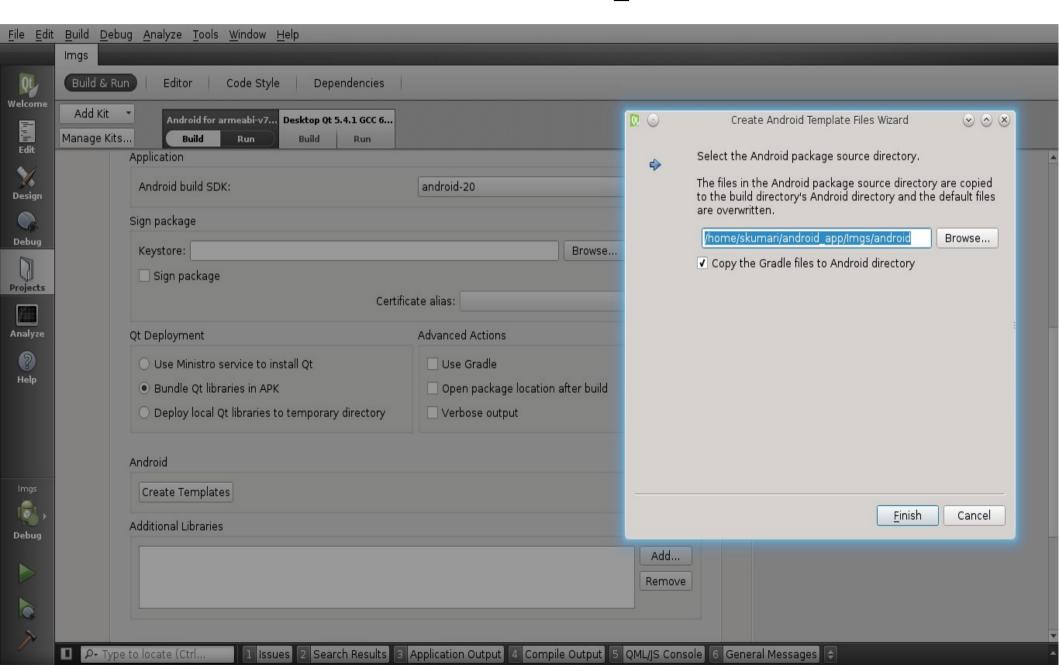


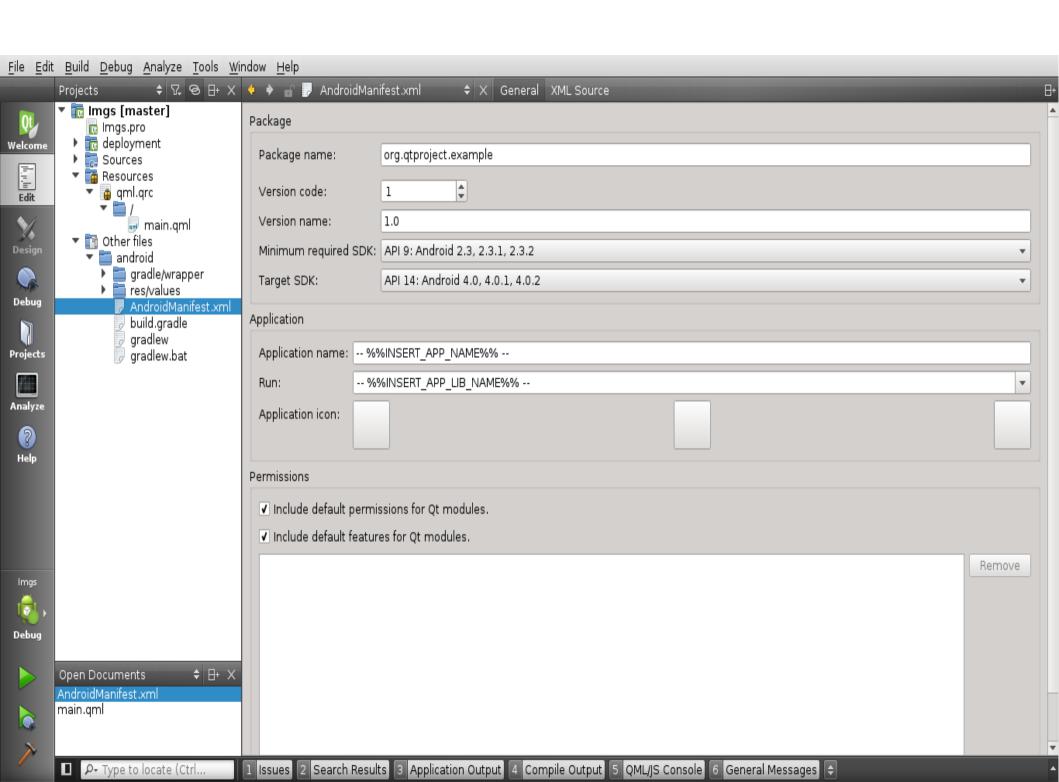
# Deploying and Publishing app to Google Play store



- For quick deployment, enable USB debugging mode in mobile and connect your phone with computer using USB and run application in Qt creator
- Create Template
- Open AndroidManifest.xml and add needed information
- Set-up keystore to sign package
- Build your application and foo.apk signed package generated (foo-signed.apk)
- Upload your .apk package and basic information like screenshot, icons
- Login to https://play.google.com/apps/publish

#### Create template





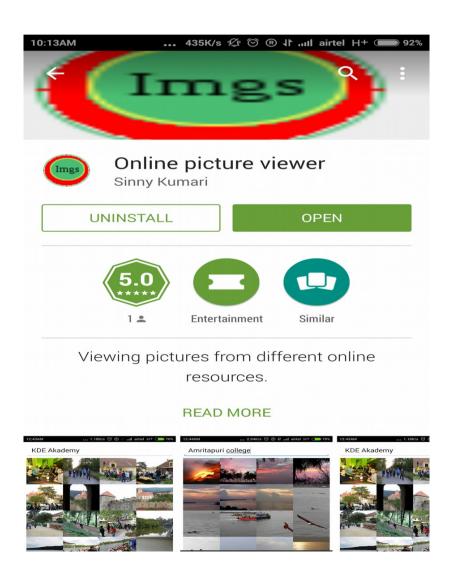
## **Keystore Creation**

Keystore	Certificate
	Alias name: QtApp
	Keysize: 2048
	∨alidity (days): 10000 💲
Password: ●●●●	Password:
Retype password: ●●●●	Retype password:
Show password	✓ Use Keystore password ☐ Show password
Certificate Distinguished Names	
First and last nam	ne: Foo bar
Organizational unit (e.g. Necessita	s): Tools
Organization (e.g. KDI	E): foo
City or locality	ty: Amritapuri
State or province	ce: Kerala
Two-letter country code for this unit (e.g. RC	o): IN
	Save Close

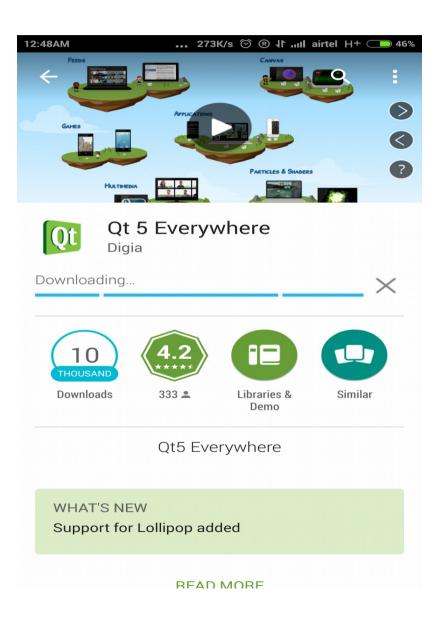


Demo

### Imgs App



# Qt 5 Everywhere App



#### References

- http://www.qt.io/
- http://doc.qt.io/qtcreator/creator-deploying-an droid.html
- http://doc.qt.io/qt-5/androidgs.html
- Slide https://github.com/sinnykumari/slides/tree/master/conf.kde.in.2015



