



## Android project porting estimation

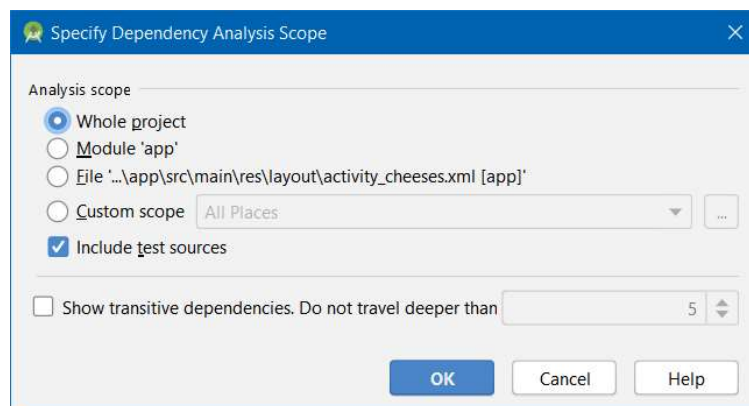
**ReflectCode** offers the automated source-to-source translation service for porting Android app source code to iOS. Before starting with actual porting, our clients like to know how much of their code will get ported and tentative porting cost. We can provide the high level coverage information by analysing the project dependency. This document provides steps to extract dependency information from Android Studio Project.

### Porting Coverage Estimation

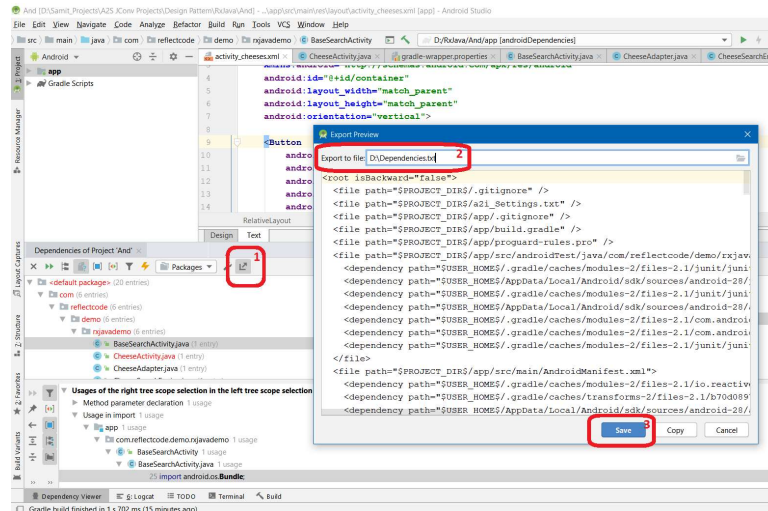
*Note : If any source code contains **unused import statements** then those are reported as dependency, even if its not used. This may lead to inaccurate report. Such unused import statements should be removed. For this right click on your project in Android Studio, then click on the “Optimize Imports” menu. Also please backup your project before making any changes.*

Steps -

- 1) Open project in Android Studio
- 2) Select menu : Analyze -> Analyze Dependencies



- 3) Select 'Whole project' and click on OK
- 4) Open the dependency viewer window from menu – View -> Tool Windows -> Dependency Viewer
- 5) Export the dependencies to text file by clicking on in viewer window –



This will generate the list of dependency path for each file in project –

```
<root isBackward="false">
<file path="$PROJECT_DIR$/app/src/main/java/com/reflectcode/demo/rxjavademo/BaseSearchActivity.java">
<dependency path="$USER_HOME$/.gradle/caches/.../jars/classes.jar!/android/support/v7/app/AppCompatActivity.class" />
<dependency path="$USER_HOME$/AppData/Local/Android/sdk/sources/android-28/android/widget/EditText.java" />
<dependency path="$USER_HOME$/AppData/Local/Android/sdk/sources/android-28/android/widget/Toast.java" />
<dependency path="$USER_HOME$/AppData/Local/Android/sdk/sources/android-28/java/util/Collections.java" />
<dependency path="$USER_HOME$/.gradle/caches/.../jars/classes.jar!/android/support/v7/widget/RecyclerView.class" />
<dependency path="$USER_HOME$/AppData/Local/Android/sdk/sources/android-28/java/lang/String.java" />
<dependency path="$USER_HOME$/AppData/Local/Android/sdk/sources/android-28/android/content/res/Resources.java" />
<dependency path="$USER_HOME$/AppData/Local/Android/sdk/sources/android-28/java/lang/Override.java" />
<dependency path="$USER_HOME$/AppData/Local/Android/sdk/sources/android-28/java/util/Arrays.java" />
<dependency path="$PROJECT_DIR$/app/src/main/java/com/reflectcode/demo/rxjavademo/CheeseSearchEngine.java" />
<dependency path="$USER_HOME$/AppData/Local/Android/sdk/sources/android-28/android/os/Bundle.java" />
<dependency path="$USER_HOME$/AppData/Local/Android/sdk/sources/android-28/android/widget/ProgressBar.java" />
<dependency path="$USER_HOME$/AppData/Local/Android/sdk/sources/android-28/java/util/List.java" />
<dependency path="$USER_HOME$/.gradle/caches/.../jars/classes.jar!/android/support/v7/widget/LinearLayoutManager.class" />
<dependency path="$USER_HOME$/AppData/Local/Android/sdk/sources/android-28/android/view/View.java" />
<dependency path="$USER_HOME$/AppData/Local/Android/sdk/sources/android-28/android/widget/Button.java" />
<dependency path="$PROJECT_DIR$/app/src/main/java/com/reflectcode/demo/rxjavademo/CheeseAdapter.java" />
</file>
```

## Porting Cost Estimation

To identify tentative porting cost, we need LOC report for your project. Please use below open source tool for this.

Source code - <https://github.com/AIDanial/cloc>

Download exe file from - <https://github.com/AIDanial/cloc/releases>

**Note:** Use the project "/app/src/" path to CLOC. Do not use project root folder. It will include intermediate build files and produce wrong LOC report.



Steps for windows -

- 1) Download or build the exe and save in a folder  
E.g. folder is "C:/tools/" and name of exe file is "cloc-1.84.exe"
- 2) Open command prompt. "Win-key" + R, enter "cmd" and click "Ok"
- 3) In "cmd.exe" window enter "C:/tools/cloc-1.84.exe << *Path to project*>>/app/src/"
- 4) The LOC details will be displayed on command window
- 5) Copy the entire text and save to text file

For more details please refer to - <https://github.com/AlDanial/cloc>