Android Development

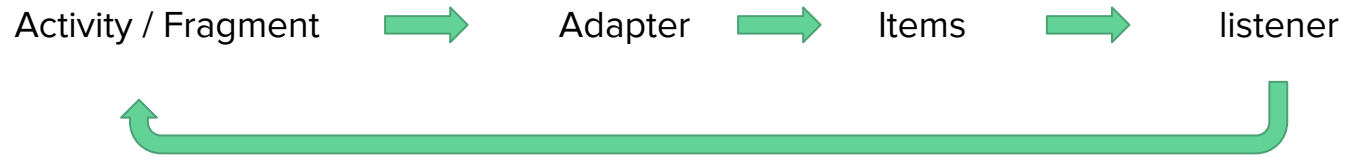# Adapter listeners

Activity / Fragment → Adapter → Items → listener

AndroidSupportLibrary vs Androidx

Android Support Libraries(com.android.support)

These library packages are provided by Google to provide backward compatibility to android applications. The name of these packages ends with the minimum version of Android API supported by the libraries. For example, package name **support-v4** and the **support-v7** indicate that the minimum supported Android API version is 4 and 7 respectively.

AndroidX Package Libraries(androidx.*)

Introduced along with the release of Android Jetpack in **2018**, AndroidX is a brand new way of organizing the support libraries. The older support libraries were somewhat confusing for the developers as one cannot say that which all classes are included in a particular library just by looking at its name. To address this issue, Google launched **AndroidX(stands for Android E X tension)** libraries with the release of **Android 9.0 (API level 28)**.

Com.android.support:recyclerview-v7   **androidx.recyclerview:recyclerview**

https://developer.android.com/topic/libraries/support-library/revisions#28-0-0

https://developer.android.com/jetpack/androidx/releases/recyclerview

https://mvnrepository.com/artifact/com.google.android.material/material/1.0.0

Include - Merge

Although Android offers a variety of widgets to provide small and re-usable interactive elements, you might also need to re-use larger components that require a special layout. To efficiently re-use complete layouts, you can use the <include/> and <merge/> tags to embed another layout inside the current layout.

https://developer.android.com/training/improving-layouts/reusing-layouts

Include

```
<FrameLayout>
    <TextView />
    <TextView />
</FrameLayout>
```

```
<FrameLayout>
     <include  layout="@layout/layout2"/>
</FrameLayout>
```

```
<FrameLayout>
    <FrameLayout>
        <TextView />
         <TextView />
    </FrameLayout>
</FrameLayout>
```

Merge

```
<merge>
        <TextView />
        <TextView />
</merge>
```

```
<FrameLayout>
        <include  layout="@layout/layout2"/>
</FrameLayout>
```

→

```
<FrameLayout>
        <TextView />
        <TextView />
</FrameLayout>
```