Adding the Fragment to an Activity

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Overview

Two ways :
- XML
  - Less preferred
- Java / Programmatically
  - More preferred

1. XML - Steps Involved

Steps to Create Fragment by XML

Create a subclass of Fragment
- HelloFragment.java

Create a layout for Fragment
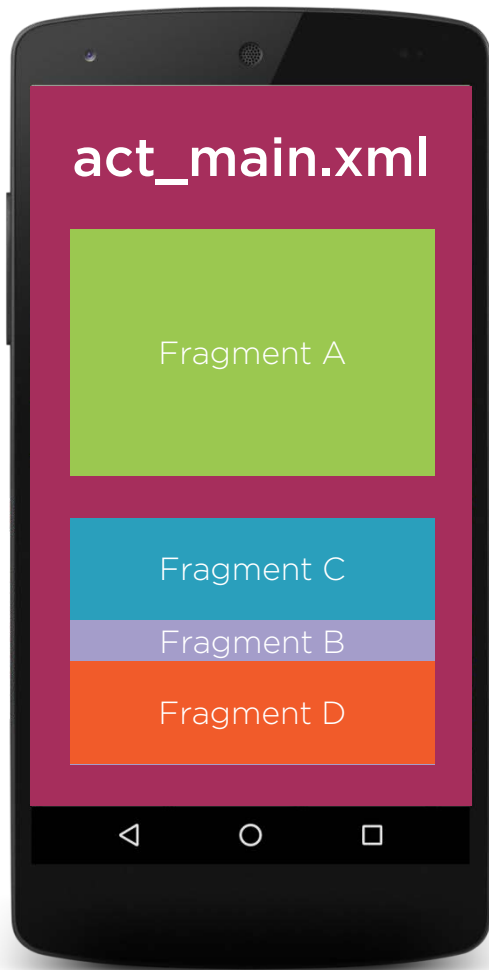- fragment_hello.xml

Link layout with Fragment subclass
- Override onCreateView()
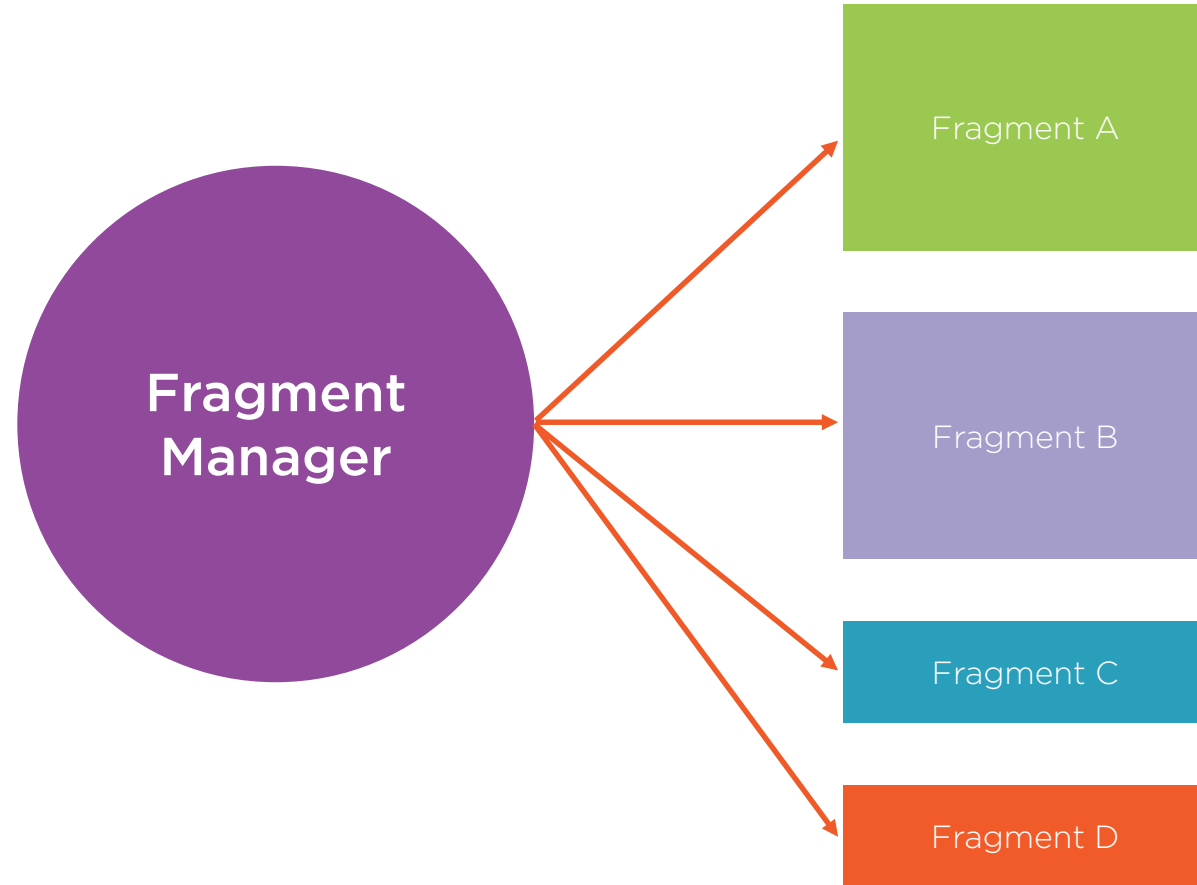
Place the Fragment inside an Activity
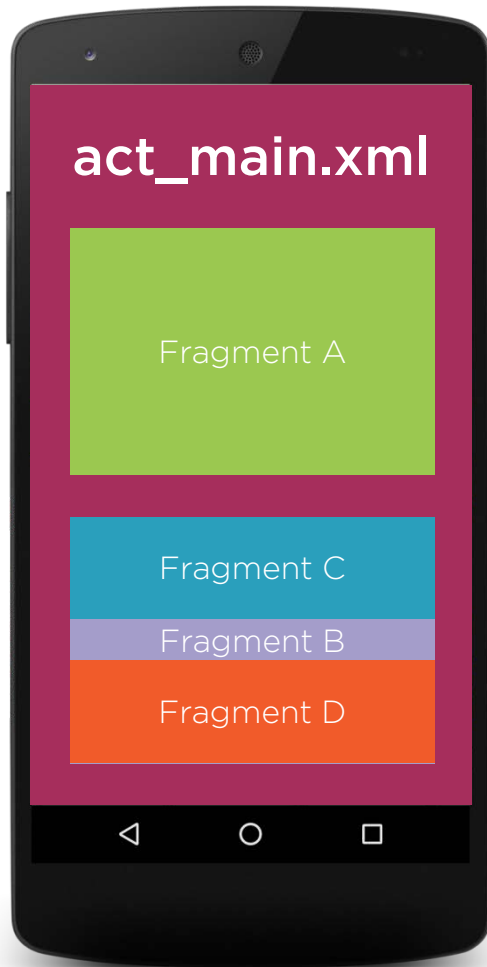- <fragment> inside activity_main.xml

FragmentManager

FragmentManager - Interface to interact with Fragment objects inside the Activity

FragmentTransaction

act_main.xml

Fragment A

Fragment C

Fragment B

Fragment D

MainActivity

Fragment Transaction taking place :-
- Fragment A – add
- Fragment B – add
- Fragment B – remove
- Fragment C – add
- Fragment D – add

FragmentTransaction – API for performing a set of Fragment operations such as add, remove, replace.

Steps to Create Fragment by Java

Create a subclass of Fragment

- HelloFragment.java

Create a layout for Fragment

- fragment_hello.xml

Link layout with Fragment subclass

- Override onCreateView()

Place the Fragment inside an Activity

- Initialise FragmentManager
- Initialise FragmentTransaction
- Start add/remove/replace operation
- Commit the transaction

Summary

FragmentManager

- Manages all fragment objects inside the Activity

FragmentTransaction

- API to perform a set of Fragment operations

- Add, Remove and Replace operations

Adding Fragment to an Activity programmatically is more preferred than adding Fragment by XML