



Android Fragments

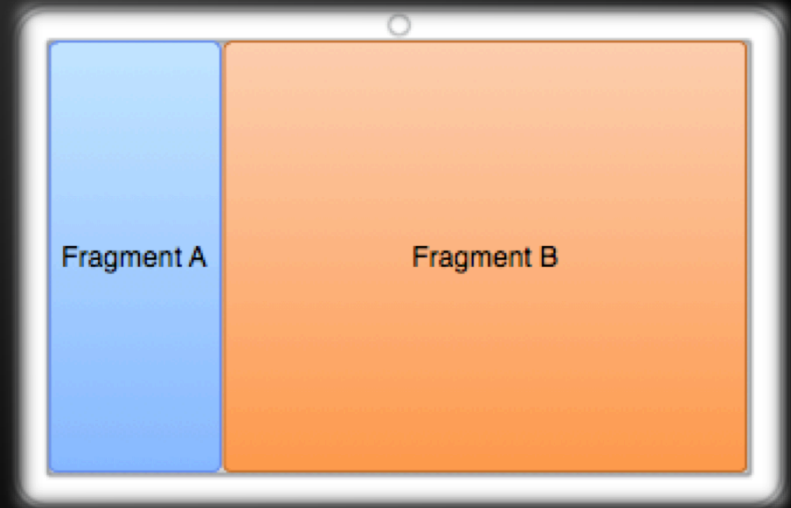


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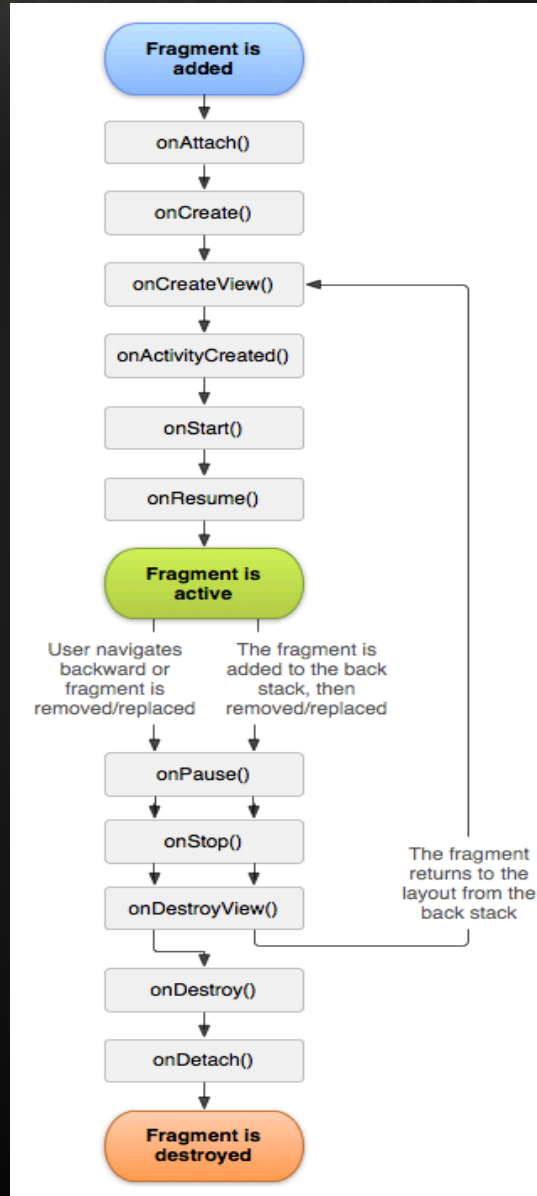
- ◆ New in Android 3.0 (Honeycomb, API 11)
- ◆ Usable in previous versions with compatibility library
- ◆ Intended to reuse layouts between tablets and phones
- ◆ But usable for many more...
- ◆ Definition:
- ◆ A Fragment represents a behavior or a portion of user interface in an Activity.

Interaction with Activities

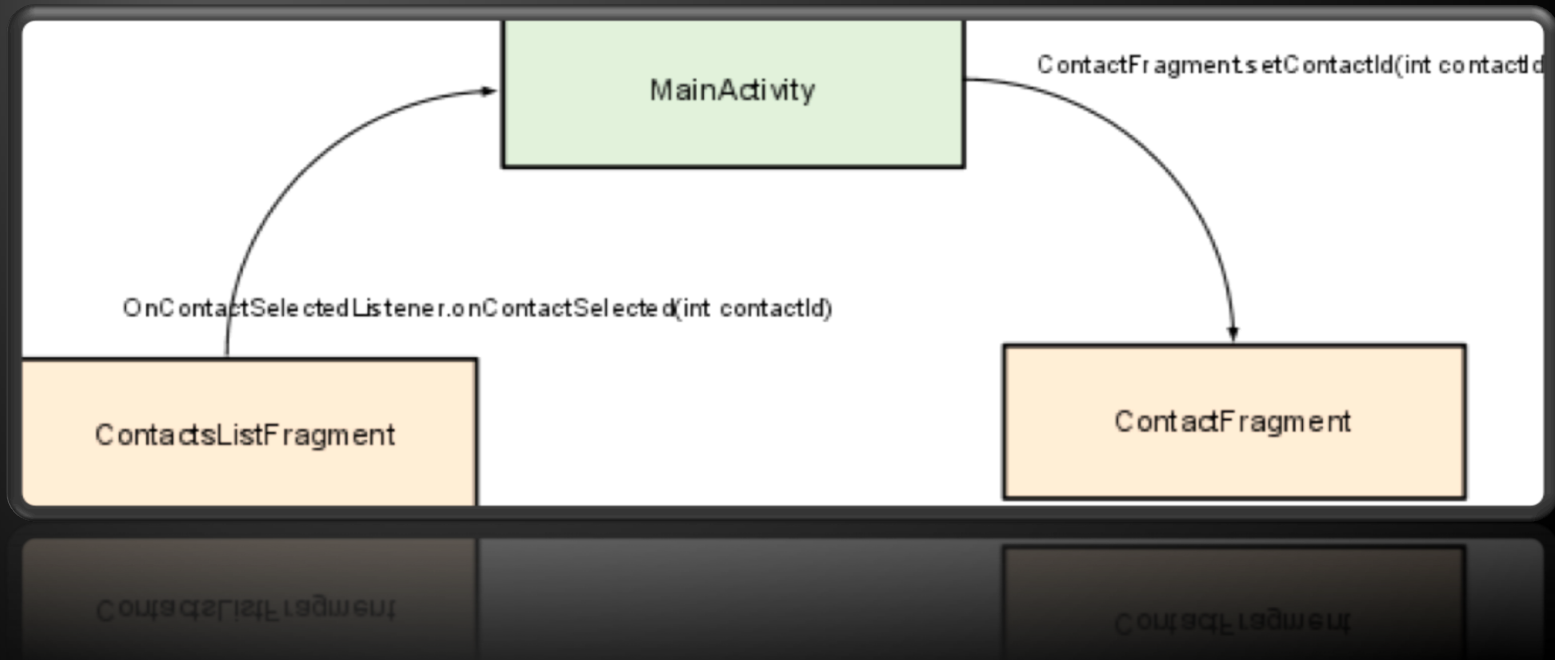
- ◆ A fragment is a modular section of an activity, which has its own lifecycle...
- ◆ But, a fragment's lifecycle is directly affected by the host activity's lifecycle
- ◆ Activity paused: fragments paused
- ◆ Activity destroyed: fragments destroyed
- ◆ Activity running: fragments can have different states

Fragment Lifecycle

- ◆ **onCreate()**
- ◆ The system calls this when creating the fragment.
- ◆ **onCreateView()**
- ◆ The system calls this when it's time for the fragment to draw its user interface for the first time.
- ◆ **onPause()**
- ◆ The system calls this method as the first indication that the user is leaving the fragment (though it does not always mean the fragment is being destroyed).



Communication Between Fragments





Questions?

1. Create an activity with two fragments
 - ◆ One shows a list of products
 - ◆ Only their name and category
 - ◆ Each product can be tapped
 - ◆ If a product is tapped, the other fragment appears, showing the details for the product: name, id, category, quantity and price