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mobile



Android development The activity life cycle



Activity life cycle

- Each activity in an app has its own life cycle.
- There are five running **states** for an activity. A sixth state (Destroyed) is entered when the app is fully exited by the user or the system reclaims its memory. Each state transition is signaled by a callback method:
- onCreate() the activity is first invoked, and transitions to the Created state.
- onStart() the activity becomes visible, but no interaction is possible. The activity transitions to the Started state.

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Activity life cycle

- onResume() the activity is visible and can be interacted with. It enters the Resumed state.
 This is the "running" state of the activity.
- onPause() the activity is either partially hidden or becoming entirely hidden. It is non– interactive, and is entering the Paused state.
- onStop() the activity is entirely hidden and in the background. It is entering the Stopped state, but may be restarted.



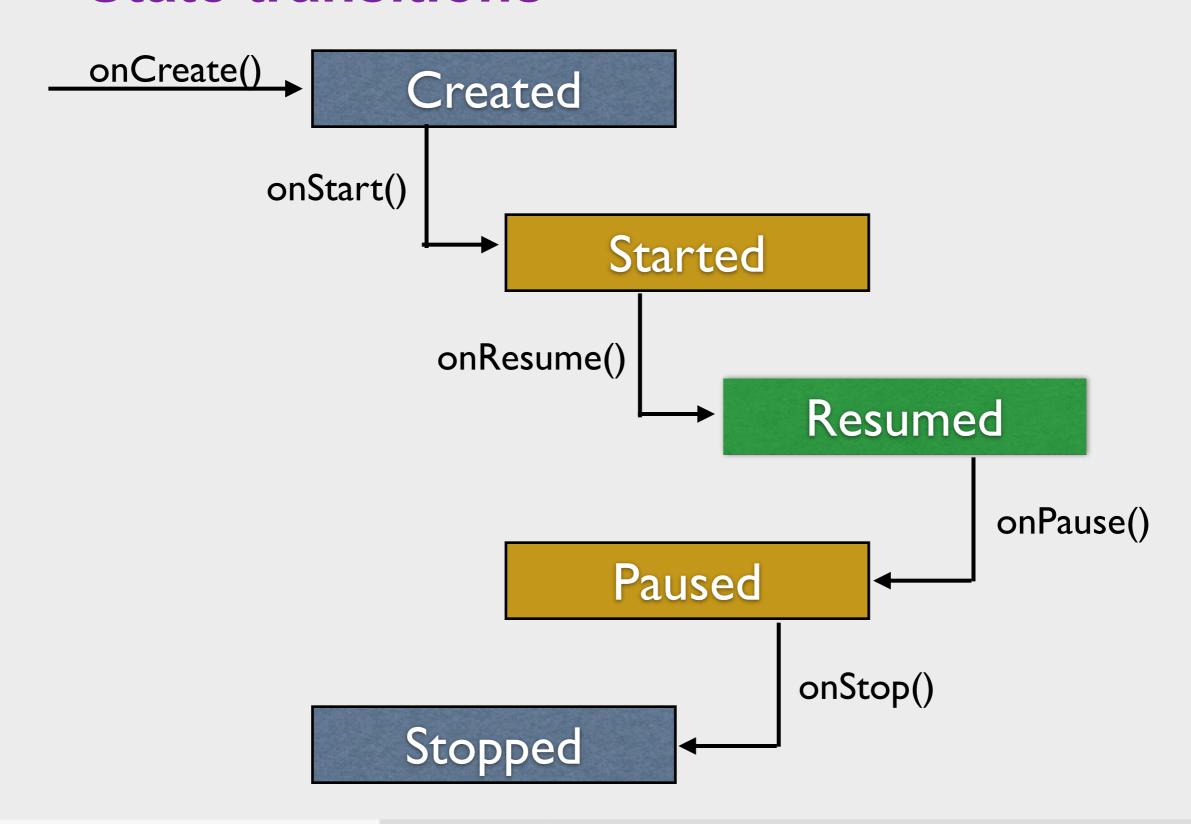
Activity life cycle

onDestroy() – the activity is entering the
 Destroyed state, either as a result of the user exiting the app or the system reclaiming memory.



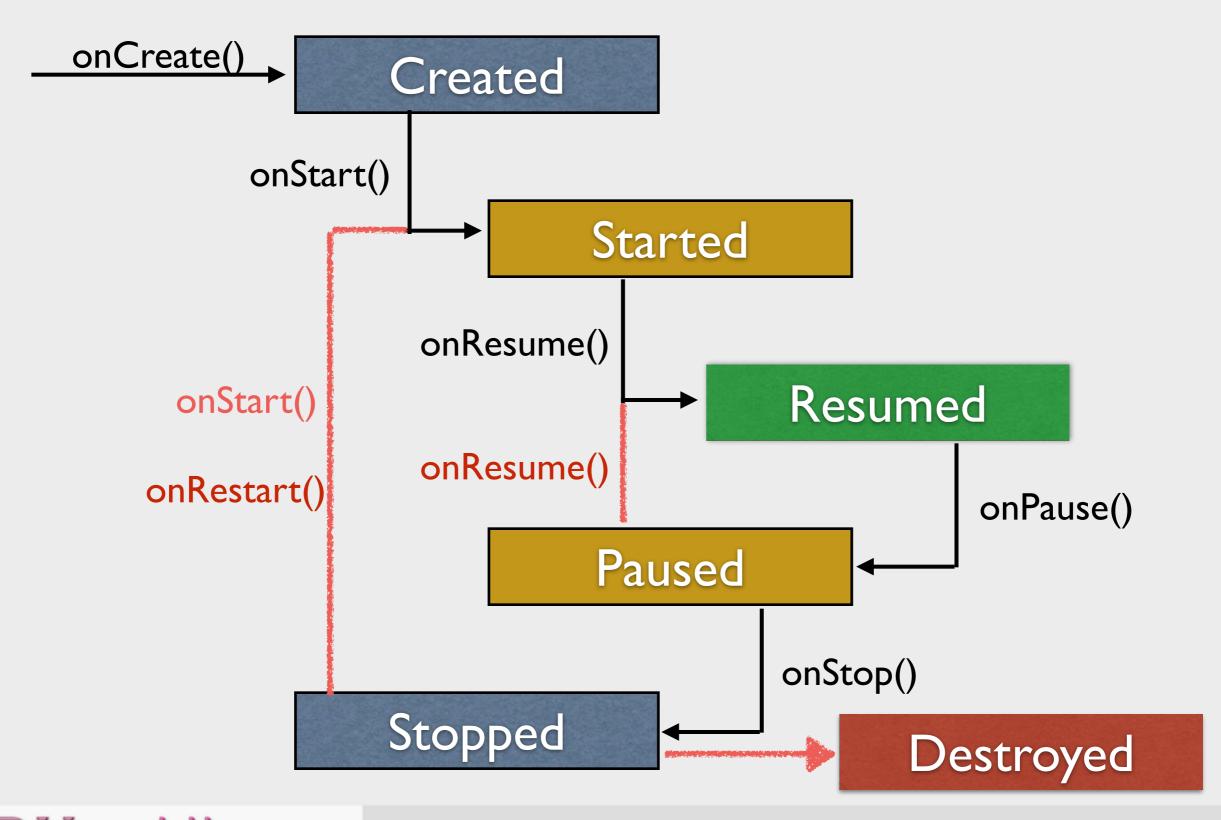


State transitions





State transitions





onDestroy()

- The system normally calls onDestroy only after it has called onPause() and onStop(), even if the user quits the app (from the resumed state).
- If an activity is intended only to transition to another activity, finish() can be called in onCreate() to immediately destroy the activity, without transitioning through the paused and stopped states.

