The Complete Android Activity/Fragment Lifecycle

Fragment Lifecycle

Activity Lifecycle

Key

Common

Uncommon

Conditional

Uncommon lifecycle events are ones that either the documentation states are not intended for application use or which aren't often encountered in many apps

Attached: fragment is associated with an activity

Added: fragment is in the view hiearchy

Fragment is added to existing activity

Fragment is inflated from layout

onInflate()

onAttach()

onCreate()

☑ retainInstance

onCreateView()

onViewCreated()

Only called upon fragment creation and reattachment, not restart

onActivityCreated()

onViewStateRestored()

onStart()

User navigates to the activity

App process killed

Apps with higher priority need memory

onResume()

Only called if setHasOptionsMenu(true)

onCreateOptionsMenu()

onPrepareOptionsMenu()

Fragment is active

Fragment is added to the back stack, then removed/replaced

User navigates backward or fragment is removed/replaced

The Fragment is popped from a FragmentManager's back stack and added again, to either the same or a different FragmentManager

onPause()

onSaveInstanceState()

This method may be called at any time before onDestroy()

onStop()

The fragment returns to the layout from the back stack

onDestroyView()

retainInstance the fragment is reattached

onDestroy()

☑ retainInstance

onDetach()

Fragment is destroyed

Activity is launched

onCreate()

onAttachFragment()

onContentChanged()

onRestart()

onStart()

Called when an activity you launched exits

onActivityResult()

onRestoreInstanceState()

onPostCreate()

Things get a little weird here if you're using the v4 compat library

onResume()

onPostResume()

onAttachedToWindow()

onCreateOptionsMenu()

Called when the user interacts with the activity

onPrepareOptionsMenu()

onUserInteraction()

Only called when onUserInteraction() is called first

Activity is running

onUserLeaveHint()

User returns to the activity

onPause()

onSaveInstanceState()

onStop()

User navigates to the activity

onDestroy()

Activity is shut down