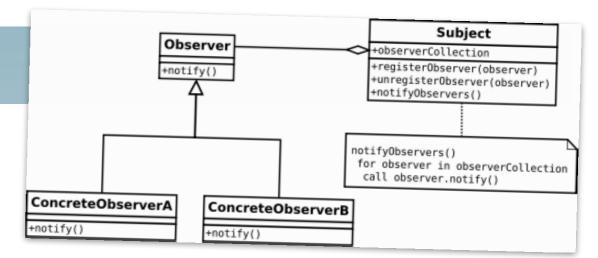
User Interaction: Intro to Android

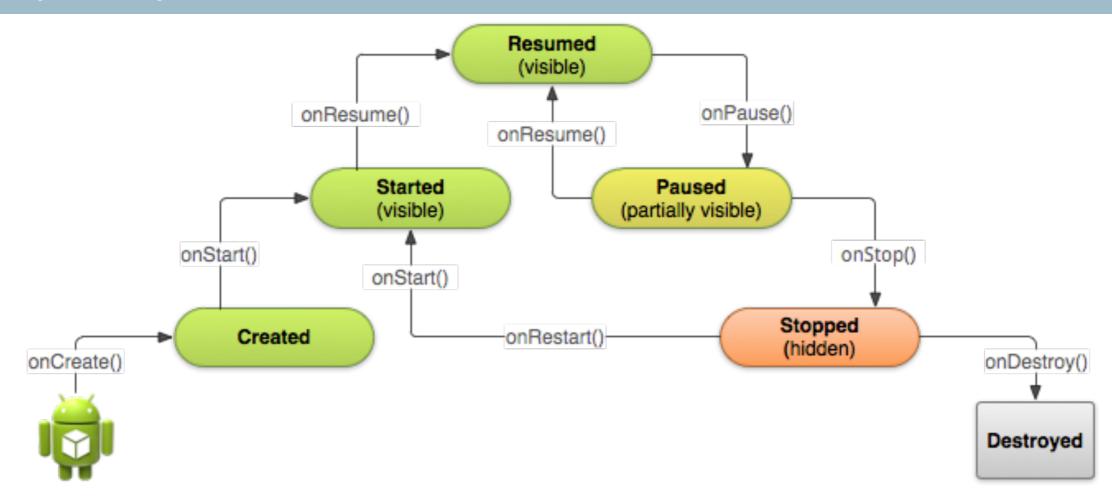
Assoc. Professor Donald J. Patterson INF 133 Fall 2014



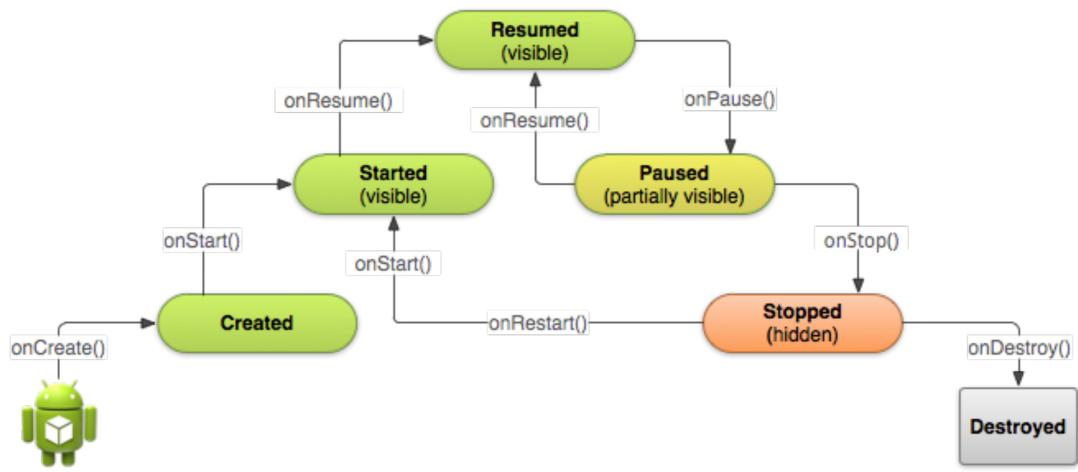


- Unlike traditional Java, Android does not use a "main" function
- It uses a sophisticated set of callbacks
- Each step of the callback corresponds to a step in the lifecycle of the app
- This is so that the phone can shut your app down when important things happen, like a phone calls arriving
- An implementation of the Activity class contains the callbacks

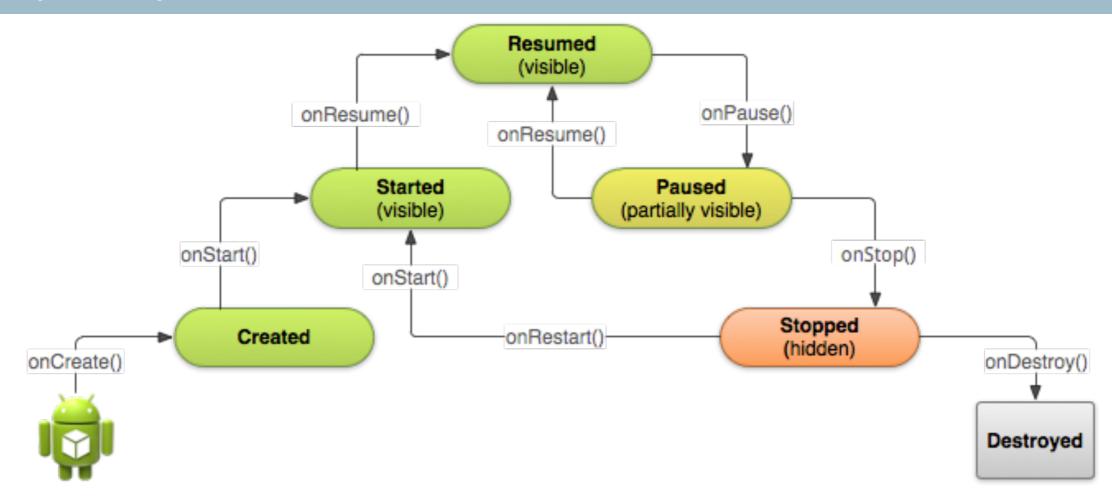
• "Activity" maps to "Observer"



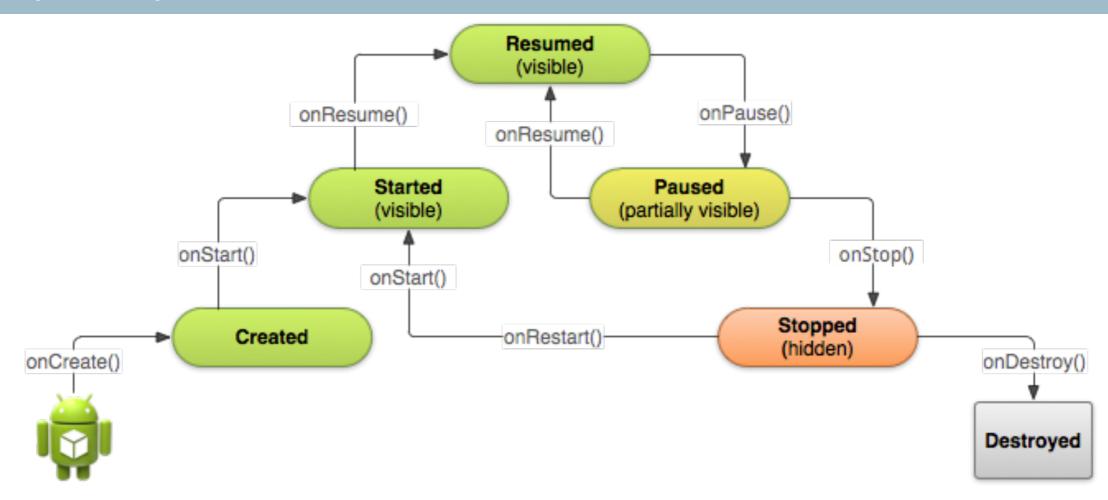
- Key loops
 - Entire Lifetime
 - onCreate()- onDestroy()



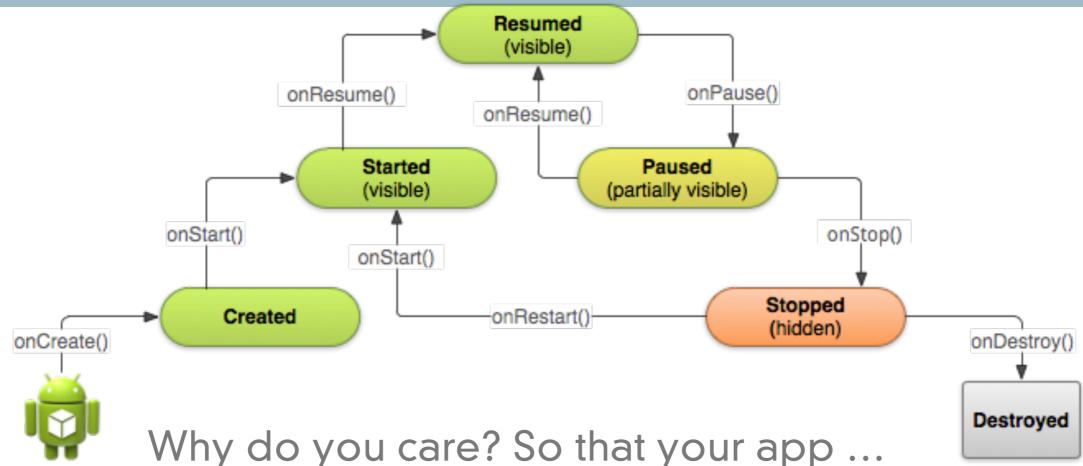
- Key loops
 - Visible Lifetime
 - onStart() onStop()



- Key loops
 - Foreground Lifetime
 - onResume() onPause()



onPause() may be followed by kill



- Does not crash if the user receives a phone call or switches to another app while using your app.
- Does not consume valuable system resources when the user is not actively using it.
- Does not lose the user's progress if they leave your app and return to it at a later time.
- Does not crash or lose the user's progress when the screen rotates between landscape and portrait orientation.

Activity Stack

