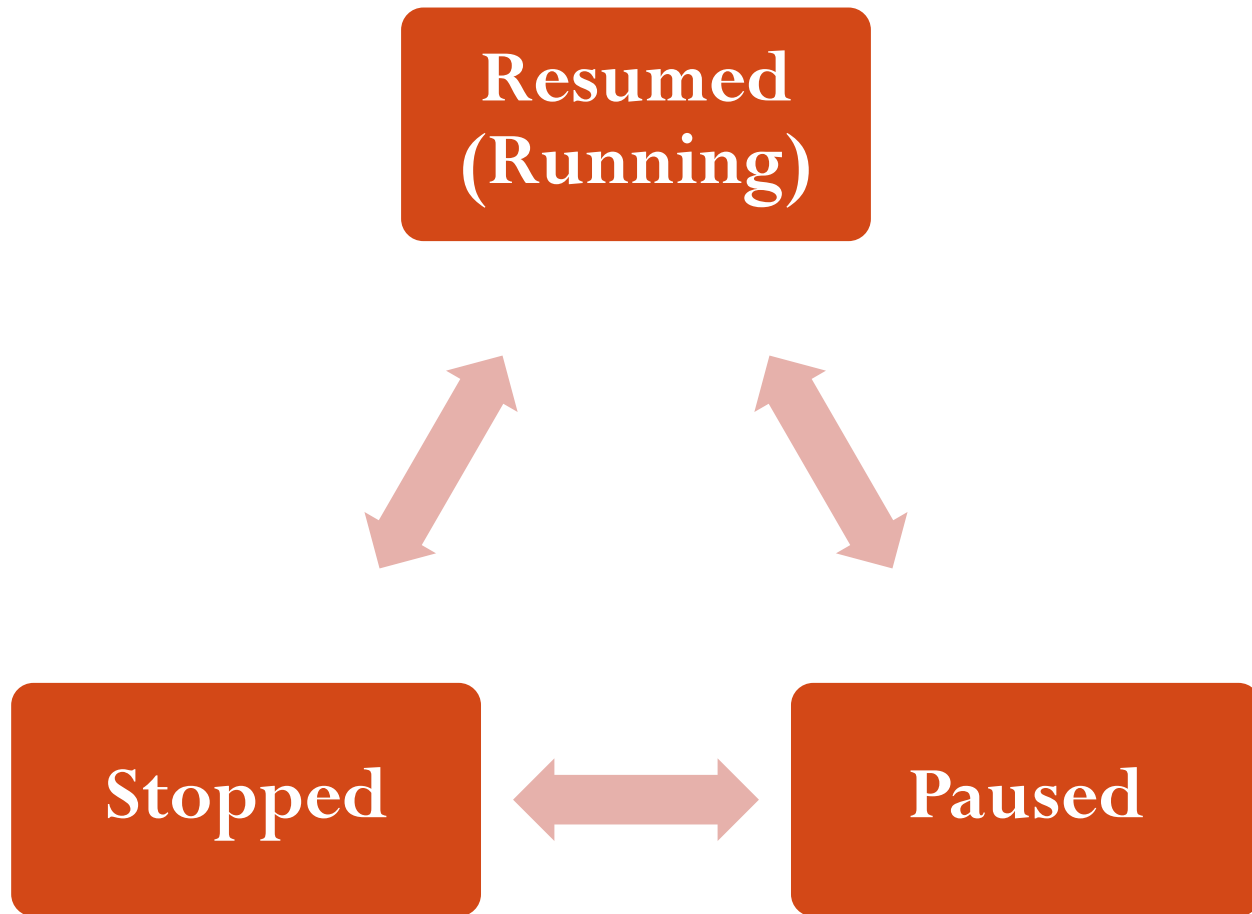


Lifecycle of Activities & Fragments in Android

Introduction to lifecycle states and callbacks

States of an Activity



States of an Activity

- Resumed (Running)
 - The activity is in the foreground of the screen and has user focus.
- Paused
 - Another activity is in the foreground and has focus, but this one is still visible.
 - A paused activity is completely alive
 - The Activity object is retained in memory
 - It maintains all state and member information
 - Remains attached to the window manager
 - Can be **killed** by the system in **extremely low memory situations**.
- Stopped
 - The activity is completely obscured by another activity (the activity is now in the "background")
 - Is also still alive (the Activity object is retained in memory, it maintains all state and member information)
 - Is *not* attached to the window manager
 - It can be **killed** by the system **when memory is needed elsewhere**

Activity Lifecycle Callbacks

```
public class ExampleActivity extends Activity {  
    @Override  
    public void onCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
        // The activity is being created.  
    }  
    @Override  
    protected void onStart() {  
        super.onStart();  
        // The activity is about to become visible.  
    }  
    @Override  
    protected void onResume() {  
        super.onResume();  
        // The activity has become visible (it is now "resumed").  
    }  
    @Override  
    protected void onPause() {  
        super.onPause();  
        // Another activity is taking focus (this activity is about to be "paused")  
    }  
    @Override  
    protected void onStop() {  
        super.onStop();  
        // The activity is no longer visible (it is now "stopped")  
    }  
    @Override  
    protected void onDestroy() {  
        super.onDestroy();  
        // The activity is about to be destroyed.  
    }  
}
```

Activity Lifecycle Callbacks

