

# Activity life cycle

It refers to the stages the activity goes through from start to finish.

# Fragment

it refers to piece of code that can be reused in different activities

# The 6 stages of activity life cycle

1. onCreate - activates at the start of the activity
2. onStart - activates at the start of the activity
3. onResume - activates at the start of the activity

```
2021-08-28 14:43:45.307 12329-12329/com.example.myapplication I/CombinedLifeCycle: MainActivity onCreate
2021-08-28 14:43:45.310 12329-12329/com.example.myapplication I/CombinedLifeCycle: MainActivity onStart
2021-08-28 14:43:45.311 12329-12329/com.example.myapplication I/CombinedLifeCycle: MainActivity onResume
```

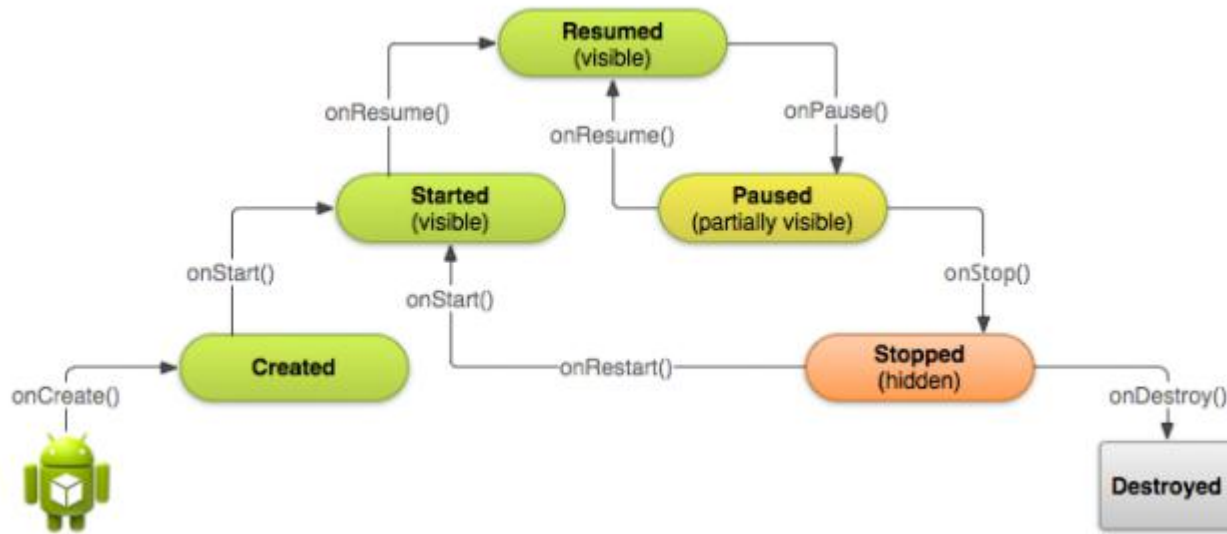
4. onPause - the activity is called when the app is about to start again
5. onStop - the activity stops running as the user has changed the view

```
2021-08-28 15:13:46.564 12329-12329/com.example.myapplication I/CombinedLifeCycle: MainActivity onPause
2021-08-28 15:13:47.562 12329-12329/com.example.myapplication I/CombinedLifeCycle: MainActivity onStop
```

6. onDestroy - the activity has stopped running completely and is destroyed

```
2021-08-28 15:28:00.736 12591-12591/? I/CombinedLifeCycle: MainActivity onDestroy
```

Launch succeeded



reference : <https://google-developer-training.github.io/android-developer-fundamentals-course-concepts-v2/unit-1-get-started/lesson-2-activities-and-intents/2-2-c-activity-lifecycle-and-state/2-2-c-activity-lifecycle-and-state.html>

# Fragment life cycle

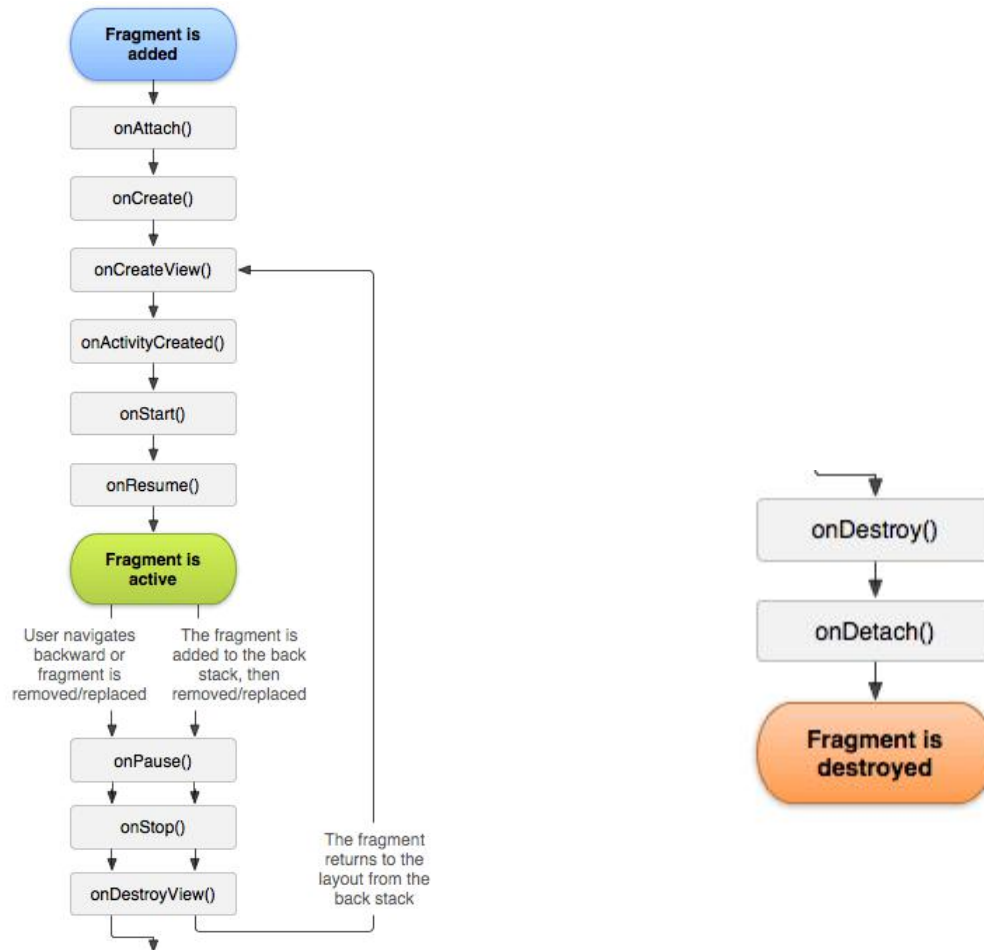
1. `onAttach` - this method is called to show the main activity that the fragment has attached to the main activity
2. `onCreate`- initializes the program
3. `onCreateView`- the method is called and draws the fragments on the activity .
4. `onActivityCreated`- starts when `onCreate` is done.

- 5. onStart- the fragment has finally started
- 6. onResume - the method indicates the method is in use .
- 7. onPause- pauses the method when other apps are being used
- 8. onStop - the activity in which the fragment is had stopped

9.onDestroyView - the fragment is removed from main activity .

10.onDestroy- the activity and the fragment has stopped running

11.onDetach - the fragment has detached from the activity.



refernces: <https://blog.mindorks.com/android-fragments-and-its-lifecycle>



As you can tell they are a lot of same stages between a fragment and activity life cycle.

Activity life cycle	Fragment life cycle
onCreate	onAttach onCreate onCreateView onActivityCreated
onStart	onStart
onResume	onResume
onPause	onPause
onStop	onStop
onDestorty	onDestroyView  onDestroy