

Tasks and Activities

Task: stack of activities



Activity 3

Activity 2

Activity 1

Tasks and Activities



Activity 2

Activity 1

An activity uses an intent to activate another activity

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Tasks and Activities



Activity 5

Activity 4

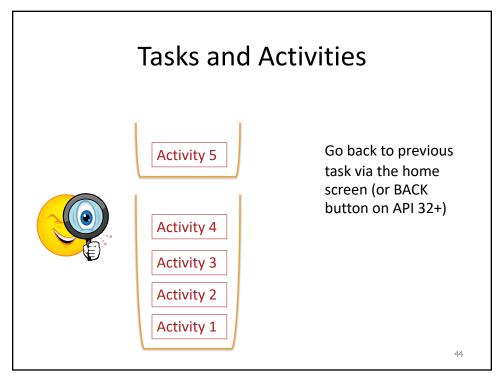
Activity 3

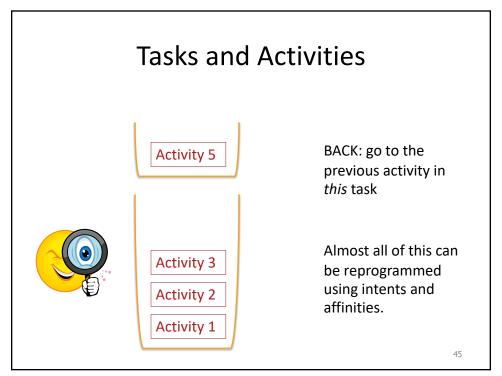
Activity 2

Activity 1

The user may choose to start another task from the home screen.

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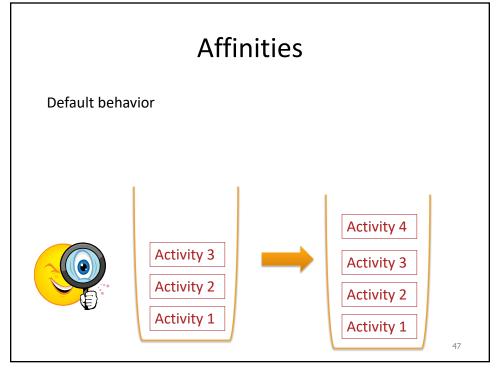


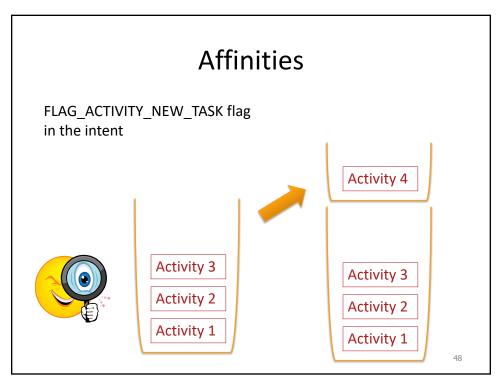
Affinities

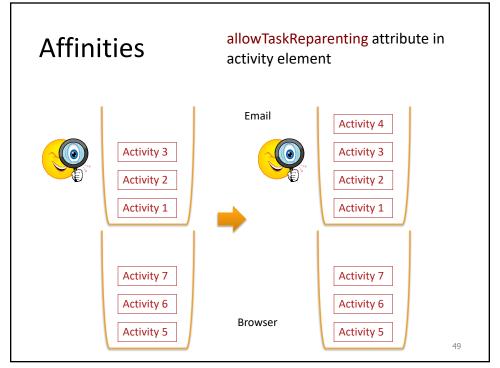
- Afinity between activities in an application
- taskAffinity attribute of <activity>
 - element to override default
- May be shared with activities in other tasks

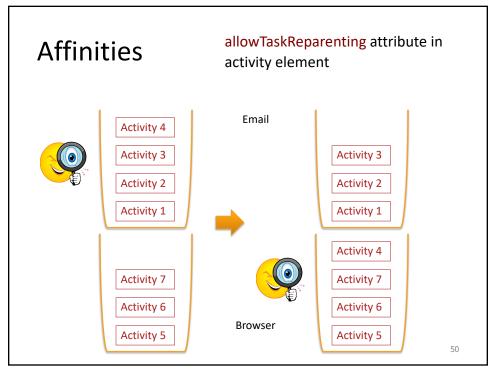
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Processes and Threads

- Component elements (<activity>, <service>,
 <receiver>, <provider>) can specify with
 process attribute where they should run
 - Each component may run in its own process
 - Some components may share a process
 - Components of different applications may run in same process

Launch Modes

Specified in <activity> element's launchMode attribute

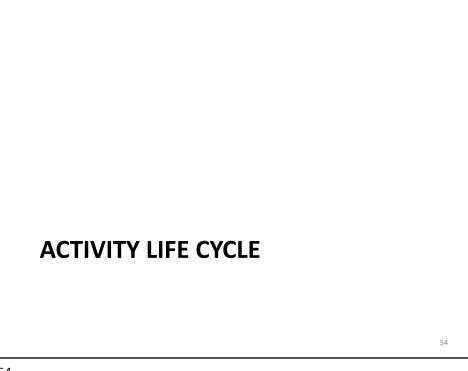
	Which task activity starts in (default)	Multiple instances of activity	Other activities in its task	New instance for new intent
standard (default)	Originating task	Yes	Yes	Yes
singleTop	Originating task	Yes	Yes	Re-used if on top of stack
singleTask	New task	No	Yes (but it is always root activity)	No, intent dropped if not on top
singleInstance	New task	No	No	No, only activity in task

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Processes and Threads

- Each component runs in the main thread
- Free up resources: which process to terminate?



Activity States • Active • Paused • Stopped • Inactive Active Visible and running Visible but some other activity is running No longer visible Not yet launched or just killed

