

Providing Stability to Fragment on Screen Rotation



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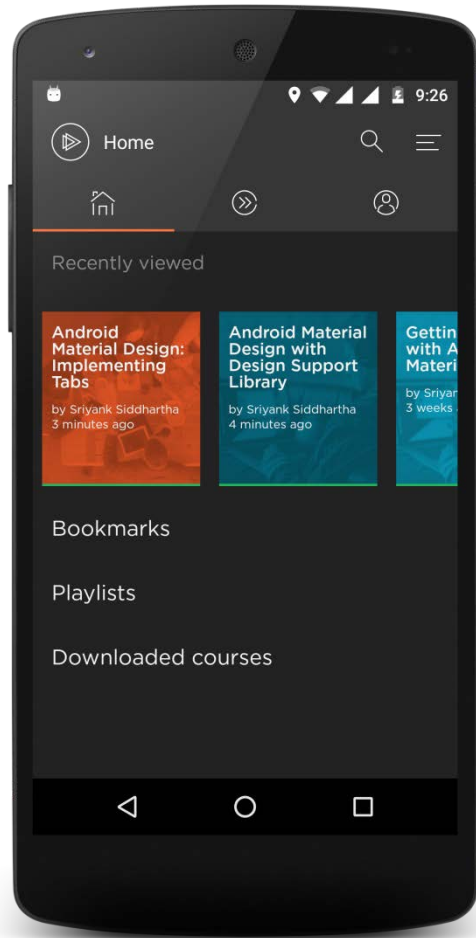
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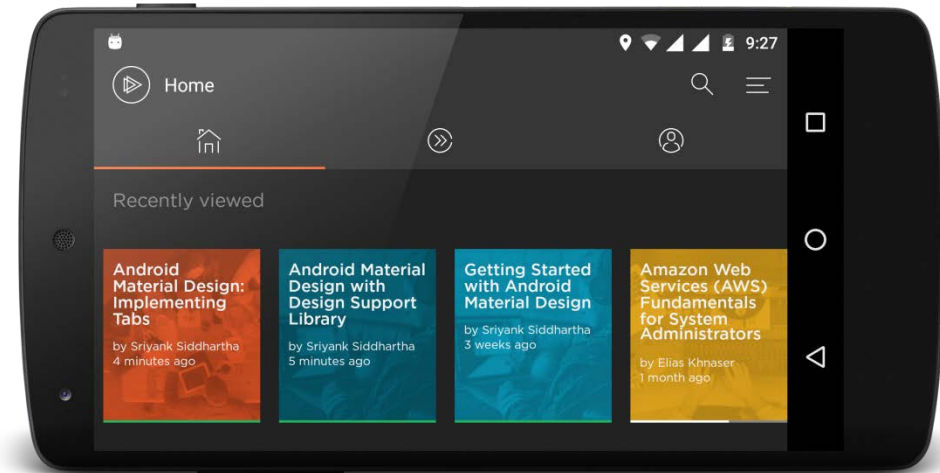
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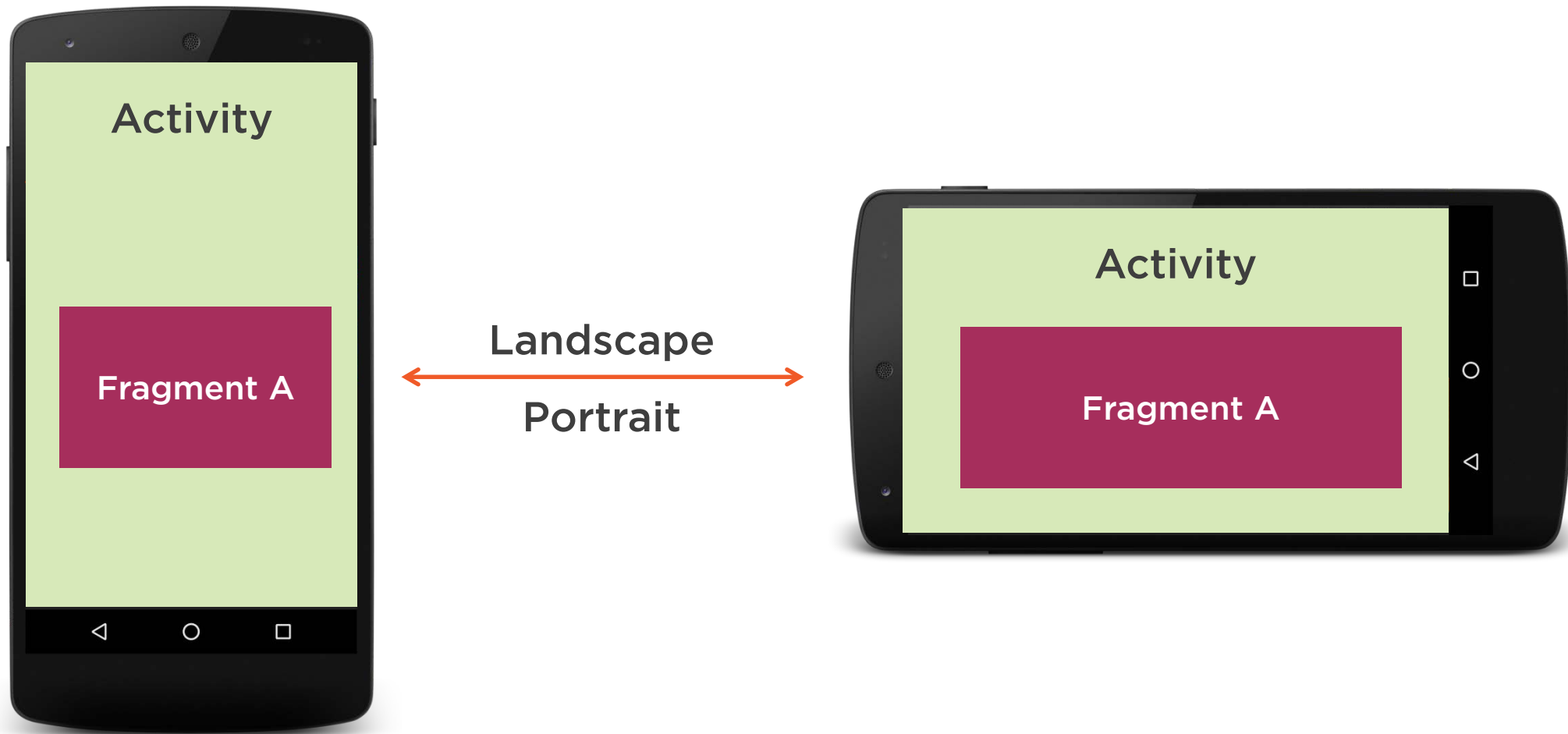
Activity and Screen Orientation



← Landscape
Portrait →



Fragment and Screen Orientation



Initial Project Setup



Fragment Lifecycle on Screen Rotation



Conclusion



On rotation of screen

- The Activity is **Destroyed**
 - The Fragment within it is also **Destroyed**
- The Activity is **Recreated** fresh in requested orientation
 - The Fragment is also **Recreated** fresh

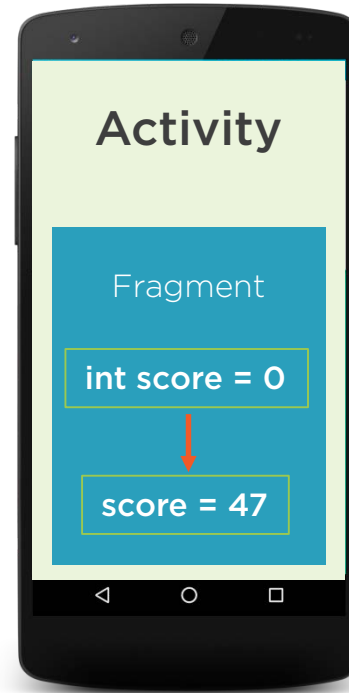
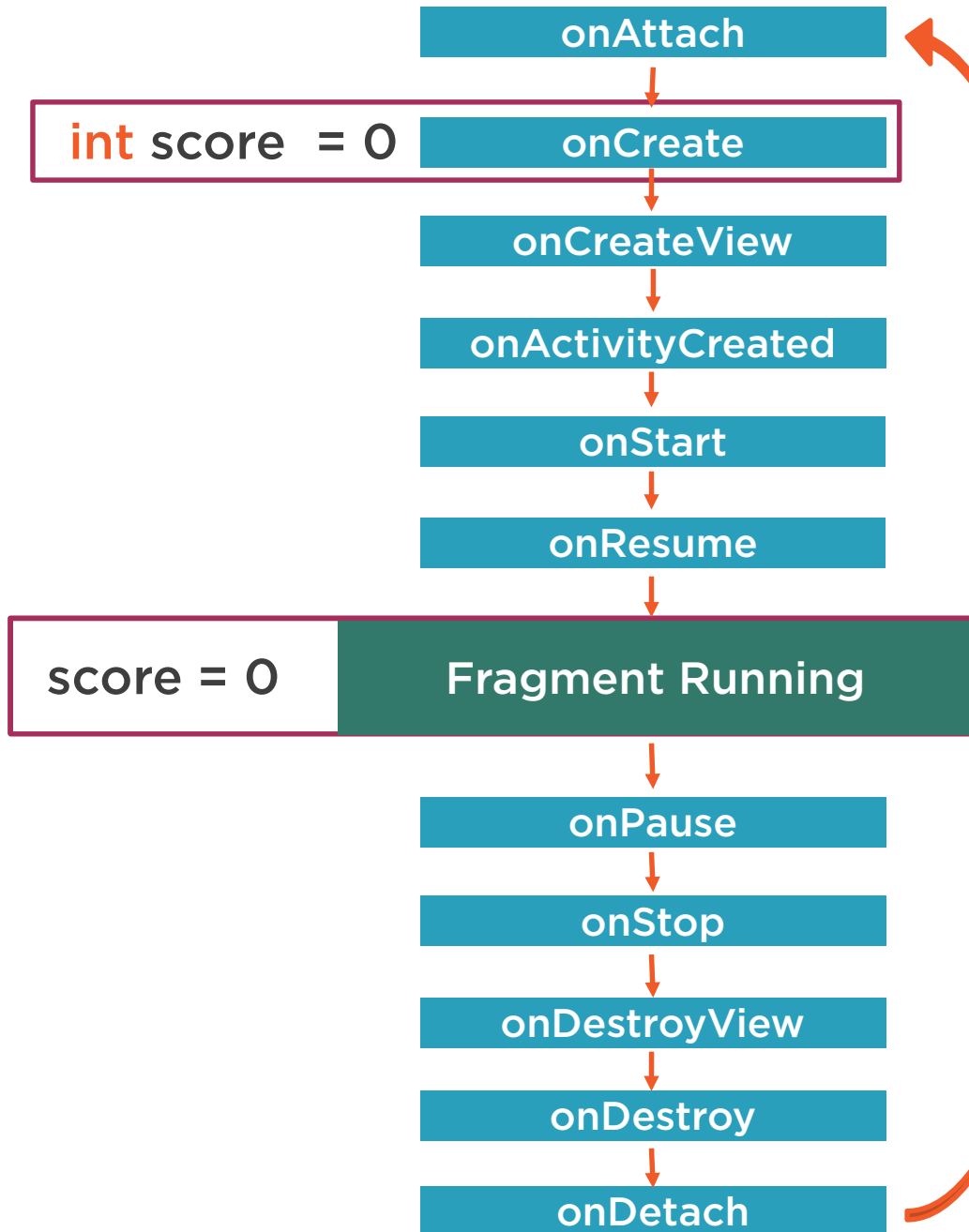
Impact on Views and Variables?



Consequences of Screen Rotation



Fragment and Screen Rotation



Impact of Screen Orientation on Views



Conclusion



[Provided Views have unique ID]

Views that DO NOT RETAIN its state on screen rotation

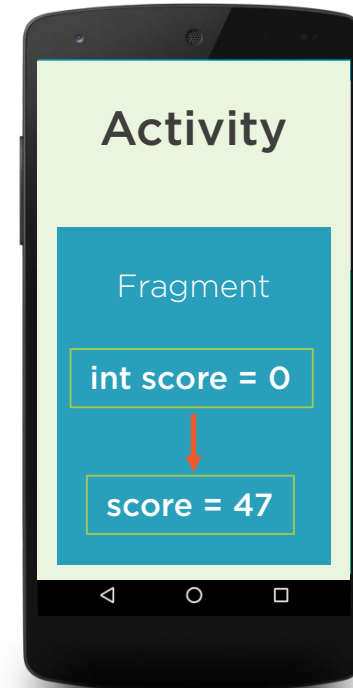
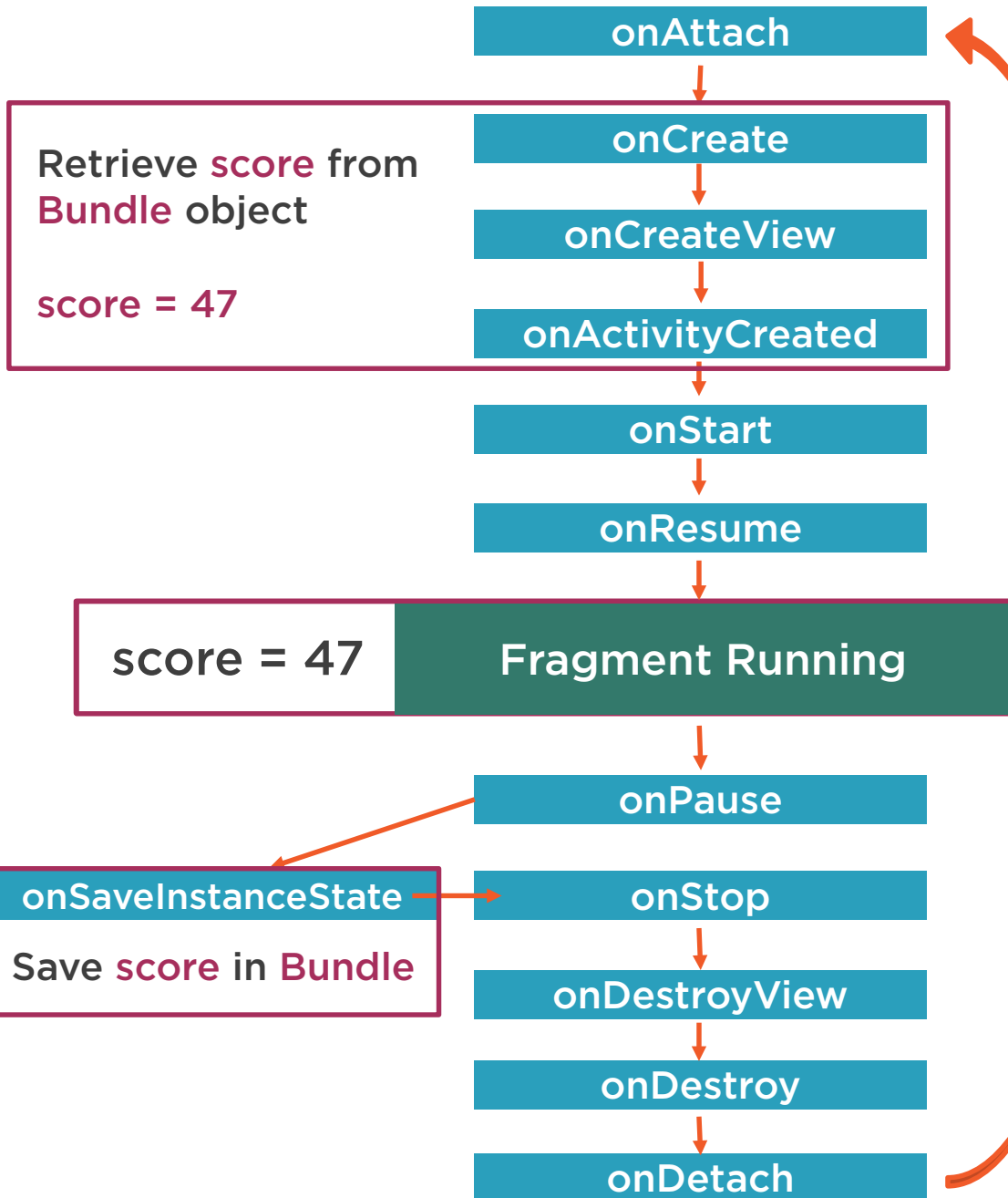
- TextView
- Button

Views that by default RETAIN its state on screen rotation

- EditText
- Checkbox
- Switch
- RadioButton



Restoring the Fragment State



Demo



Restoring Fragment State on Screen Rotation



Summary



Impact of Screen Rotation

- On a Fragment
- On the Views inside the Fragment
- On variables present inside the Fragment

Handling Screen Rotation

- Saving data to Bundle
 - onSaveInstanceState(...)
- Retrieving data from Bundle
 - onCreate(...)
 - onCreateView(...)
 - onActivityCreated(...)

Uses



Flexible user interface for Tablets and Phone

Tabs using ViewPager

- Fixed Tabs
- Scroll Tabs
- Swipe Tabs

Navigation Drawer

Dialog Boxes



What Next?



Android App Components

- Activity
- Service
- BroadcastReceiver
- ContentProvider

Material Design

- Implementing Tabs
- NavigationDrawer

