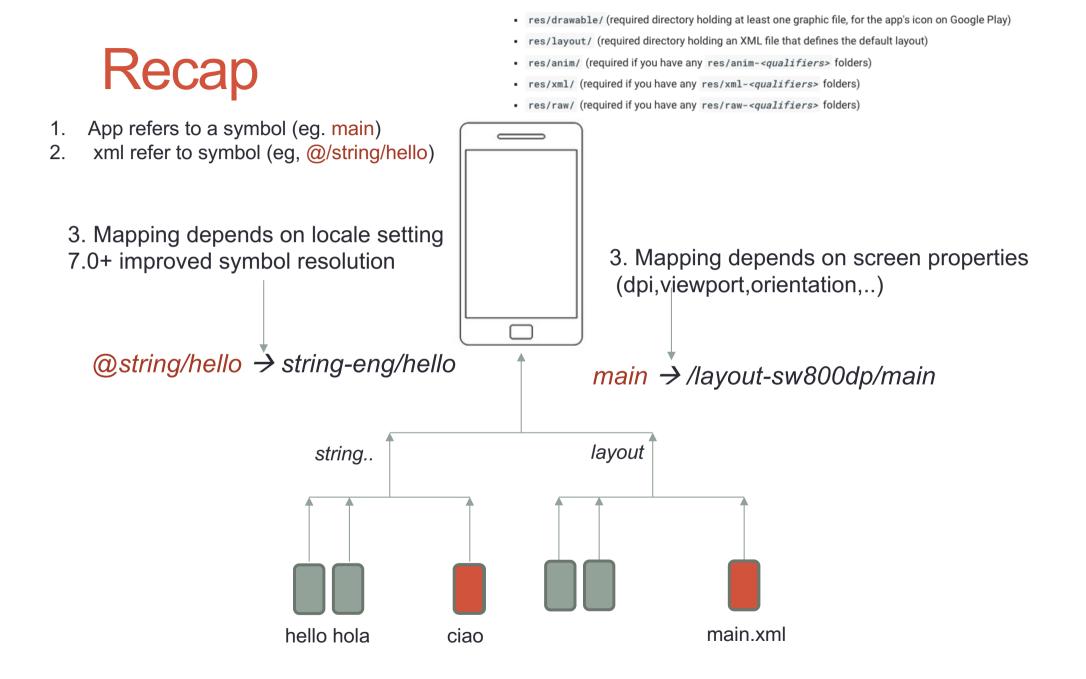
ACTIVITY, FRAGMENT, NAVIGATION

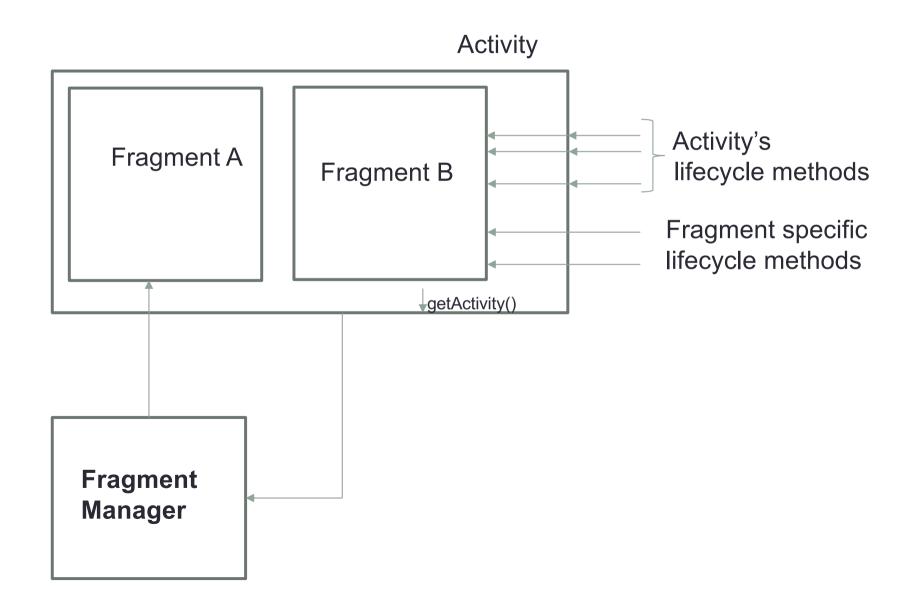
Roberto Beraldi



Fragments and activity

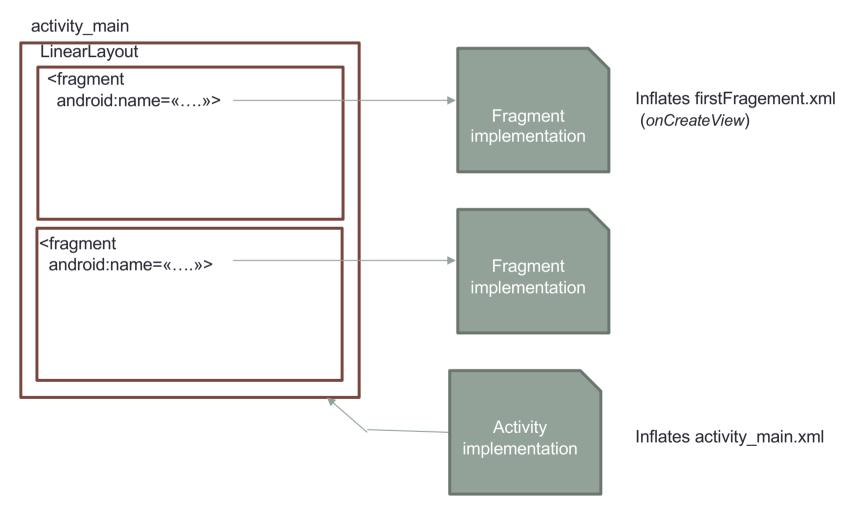
- Useful for large screen (like tablet)
- or as navigation tools
- Fragments are hosted inside an Activity
 - A fragment is 'attached' to a View
 - It must create its view (from an XML file)
- Fragments have their own lifecycle (which is more complex than the activity)
- Can be added via XML file or programmatically

Fragments and Activities



Fragment via XML

fragments are attached to the activity that inflates the main layout

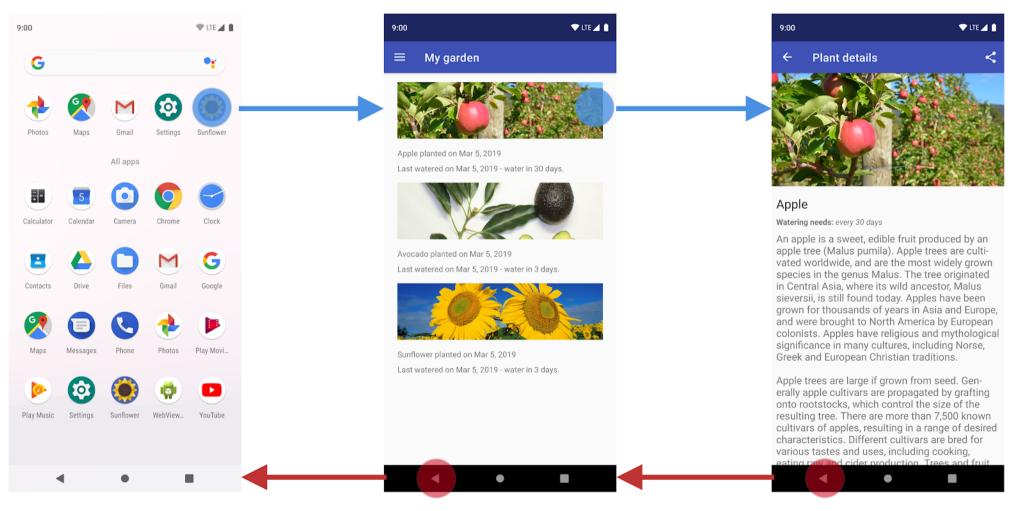


the **fragment** tag provides to the fragment implementation the view where the view will be rendered

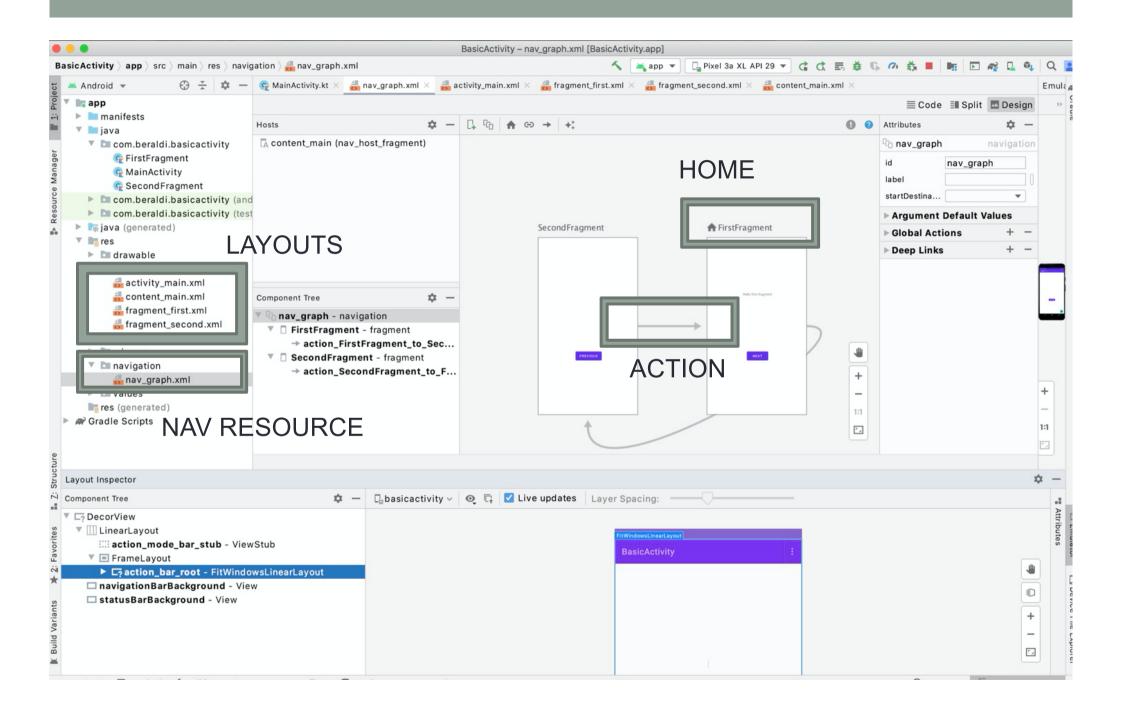
Navigation

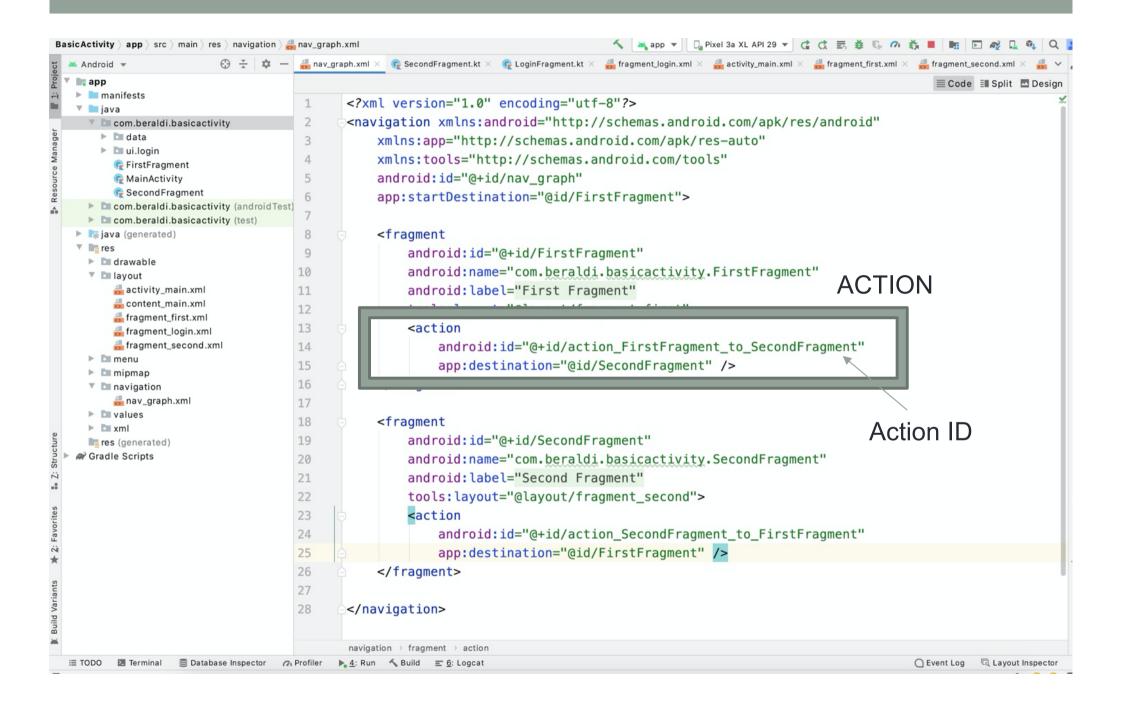
- Single Activity many fragments
- Forward/Backward navigation
- Lateral navigation, main paradigms:
 - Tab navigation
 - Bottom navigation
 - Drawer navigation
 - Menu navigation

Forward/Backward navigation



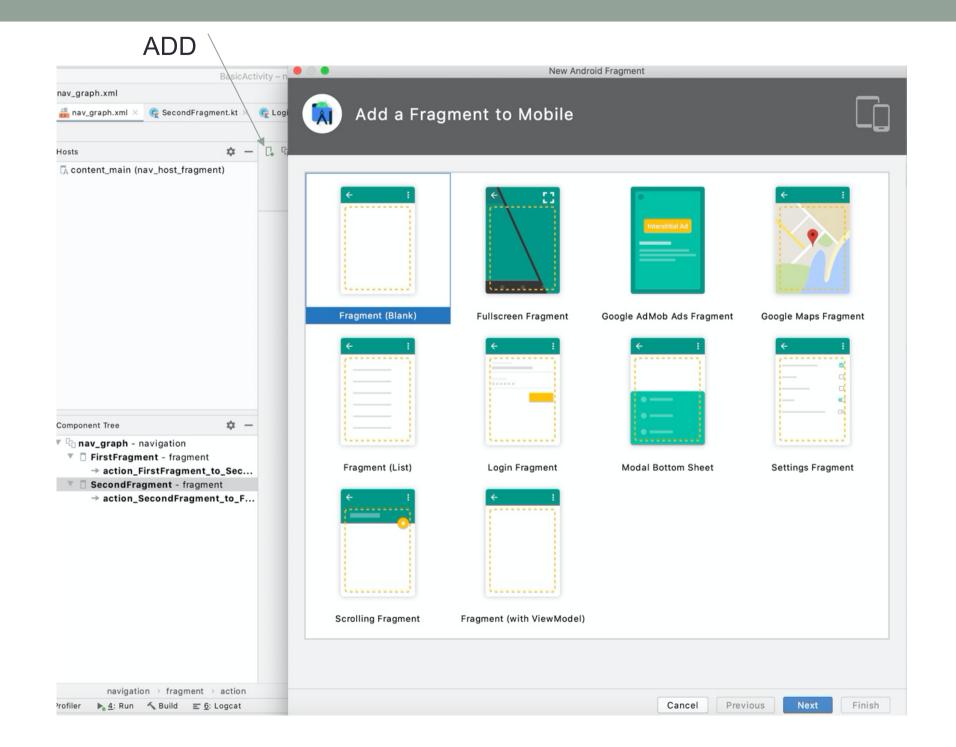
Launcher List Screen Detail Screen



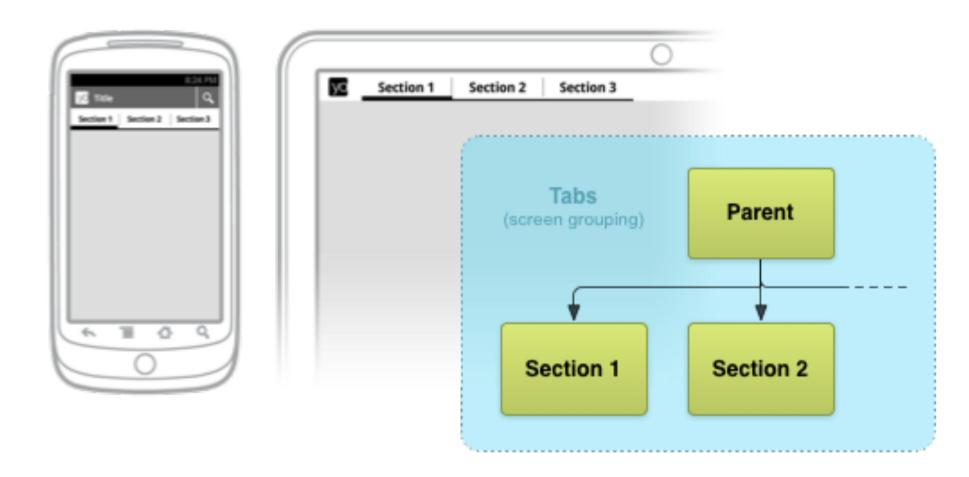


```
14
     class SecondFragment : Fragment() {
15
16 0
           override fun onCreateView(
                   inflater: LayoutInflater, container: ViewGroup?,
17
                   savedInstanceState: Bundle?
18
           ): View? {
19
              // Inflate the layout for this fragment
20
               return inflater.inflate(R.layout.fragment second, container, attachToRoot: false)
21
22
23
           override fun onViewCreated(view: View, savedInstanceState: Bundle?) {
24 0
               super.onViewCreated(view, savedInstanceState)
25
26
               view.findViewById<Button>(R.id.button_second).setOnClickListener { it: View!
27
                   findNavController().navigate(R.id.action_SecondFragment_to_FirstFragment)
28
29
30
31
```

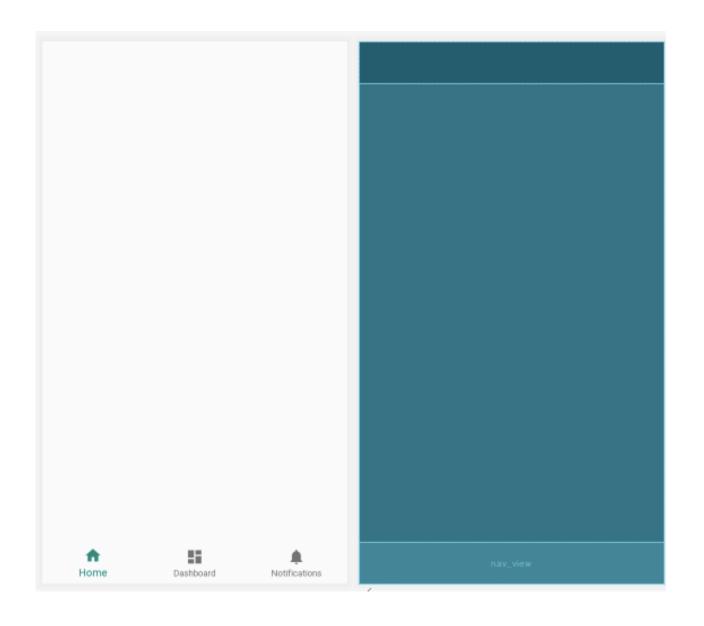
- Nav Controller is is charge of managing fragments
- navigate(action) says where to go



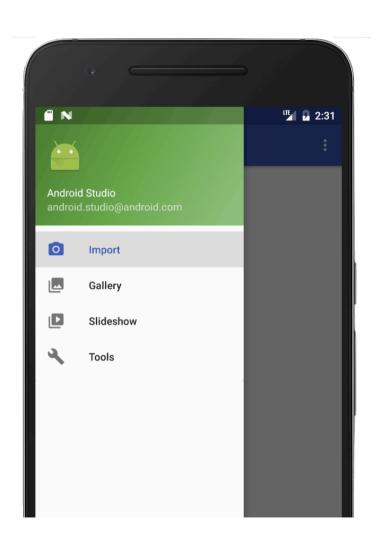
Tab navigation



Bottom navigation



Drawer navigation



Menu navigation

