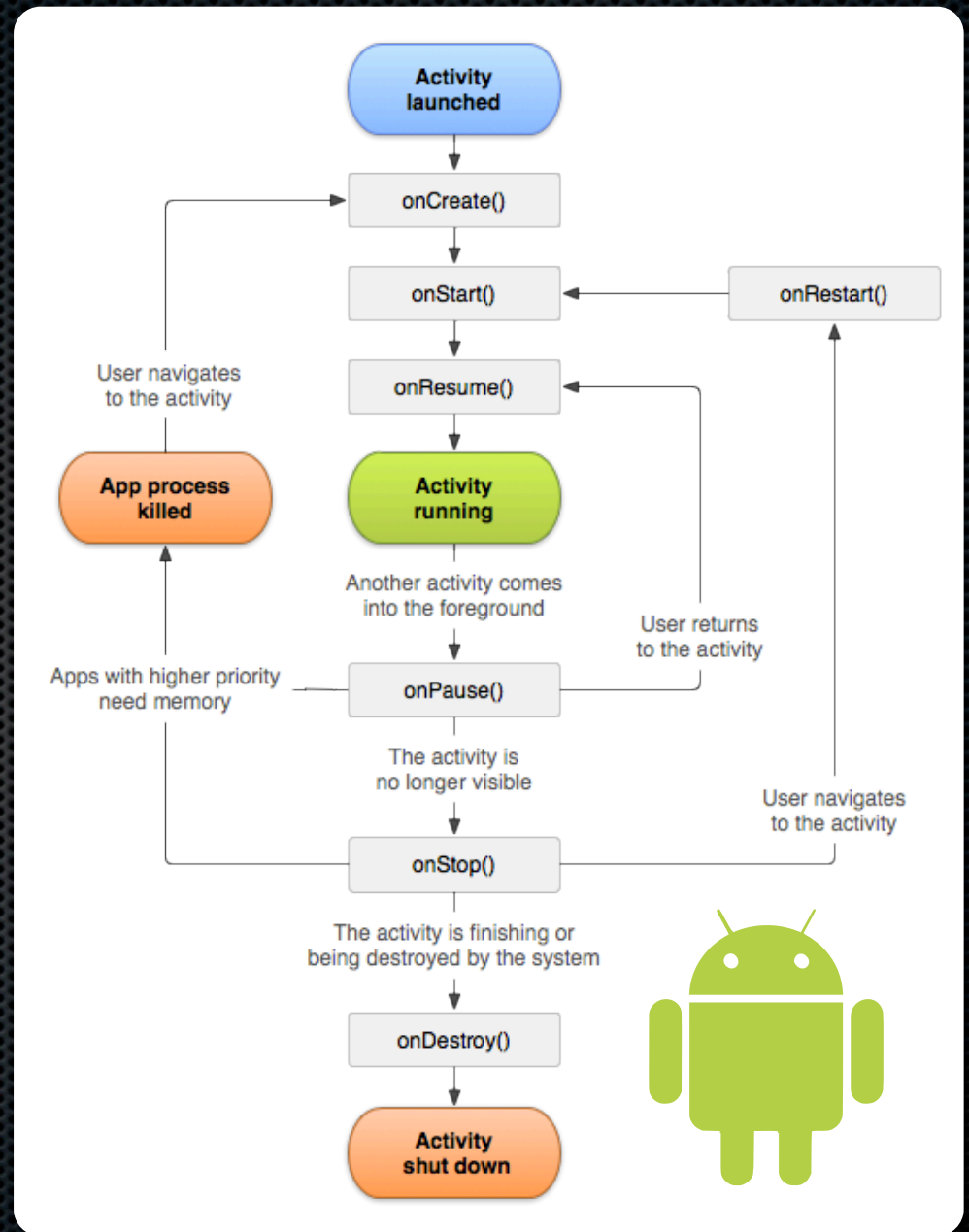


Mobile Application Programming: Android Fragments

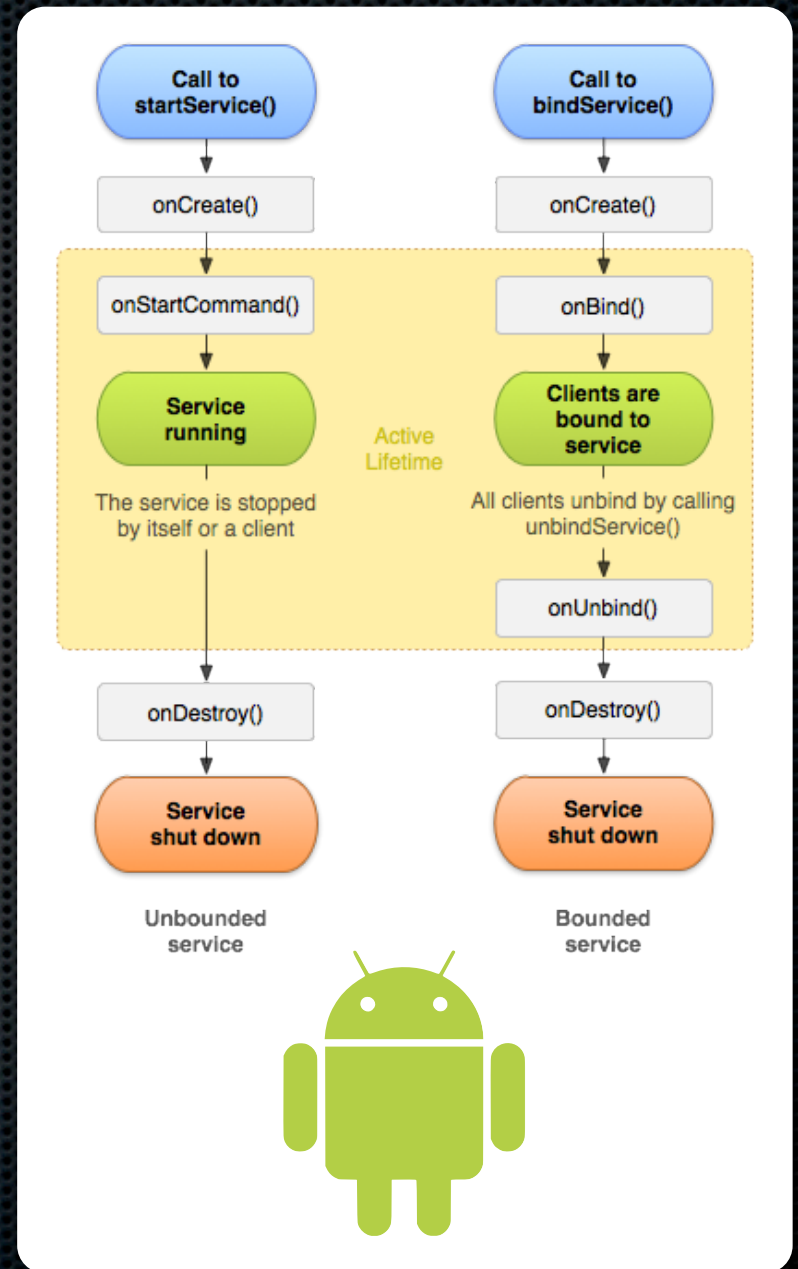
Activities

- ❖ Apps are **composed of activities**
- ❖ Activities are self-contained tasks made up of **one screen-full** of information
- ❖ Activities **start one another** and are **destroyed commonly**
- ❖ Apps can **use activities belonging to another app**

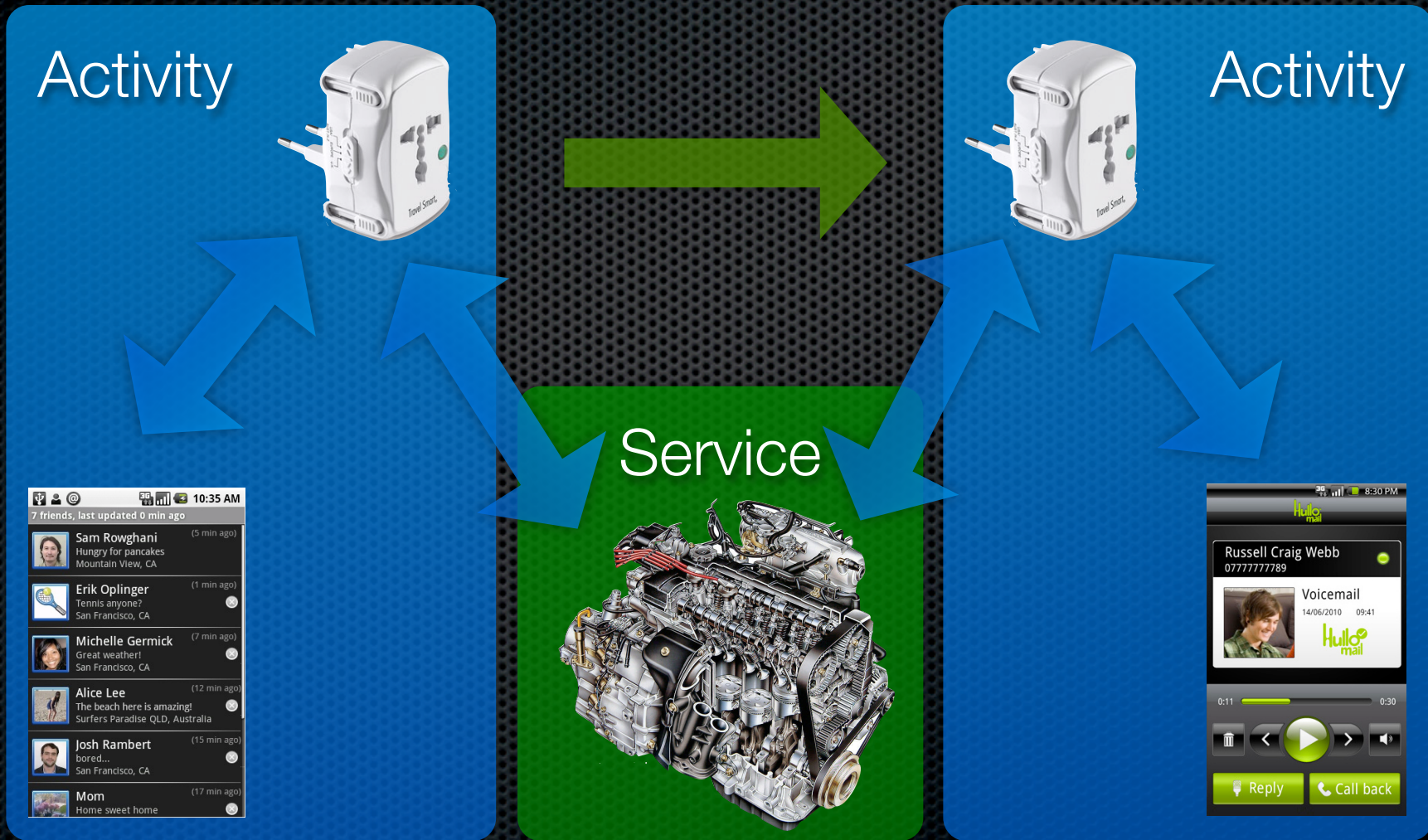


Services

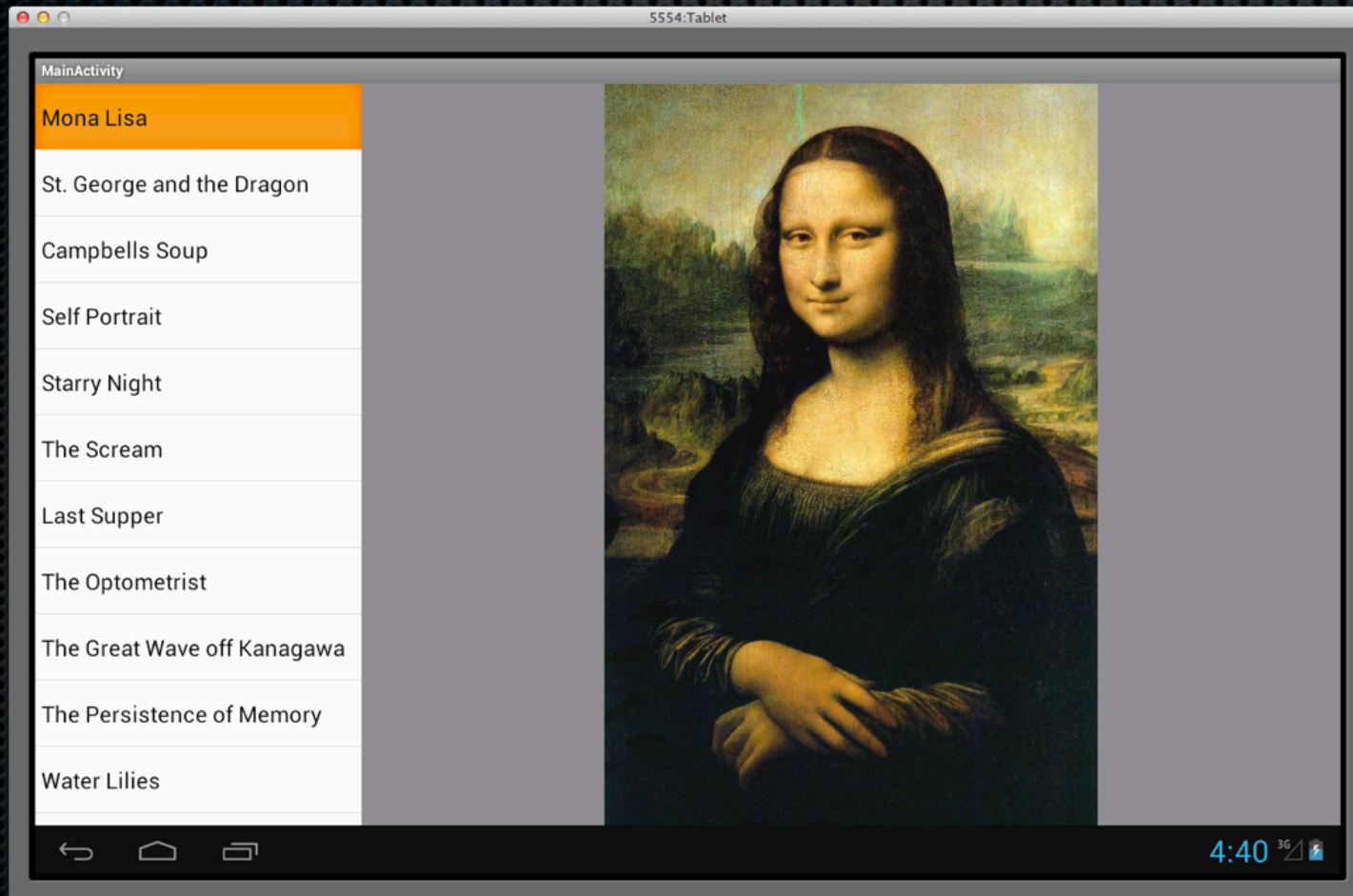
- ❖ An application component that can perform **long-running operations in the background** and **does not provide a user interface**.
- ❖ Can be **started and potentially run indefinitely** or be **bound to** and run until the operation the service provides is no longer needed.
- ❖ Apps can **use services belonging to another app**
- ❖ Can be **unbound or bound**



Services in MVC

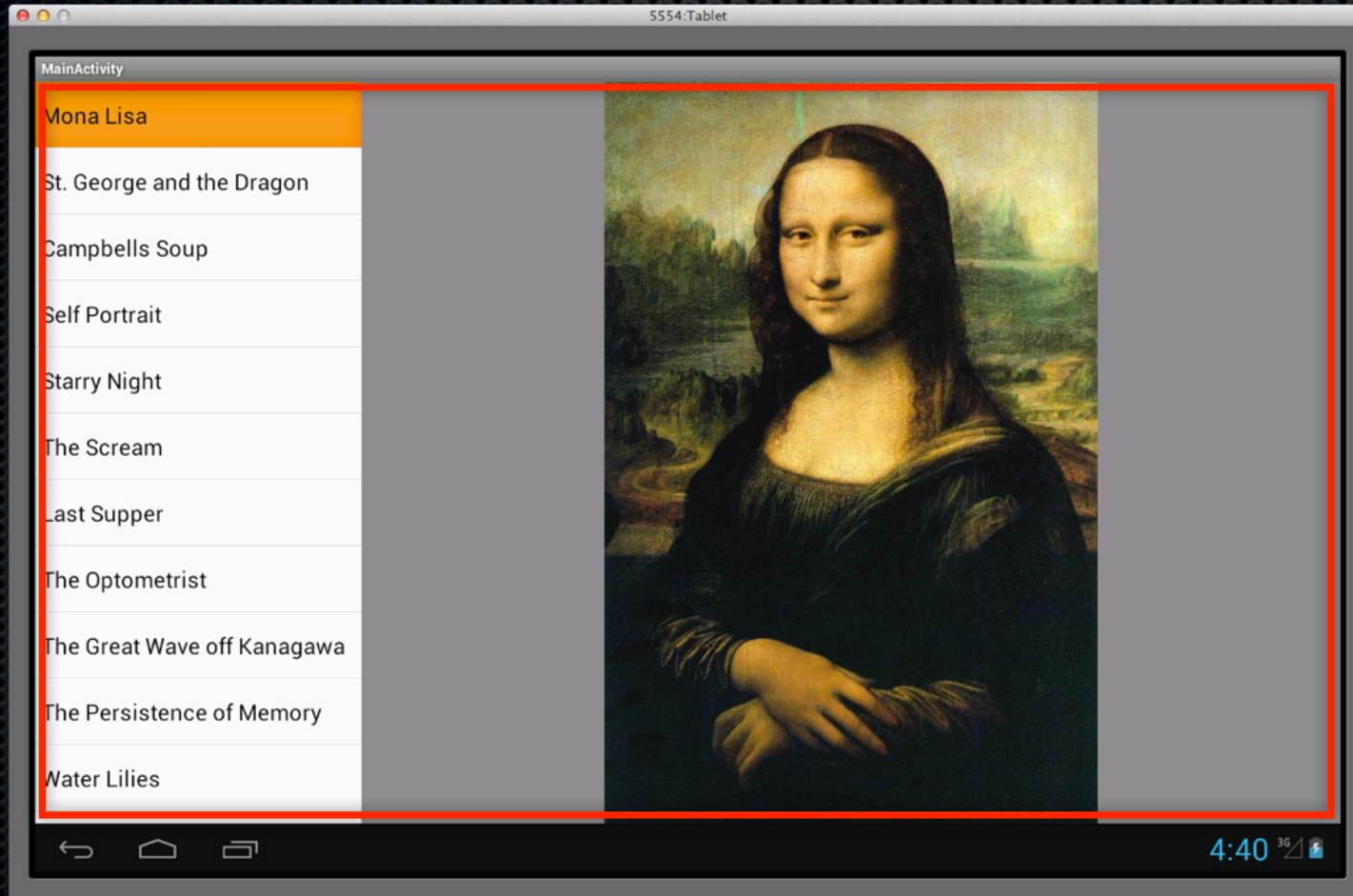


Fragments



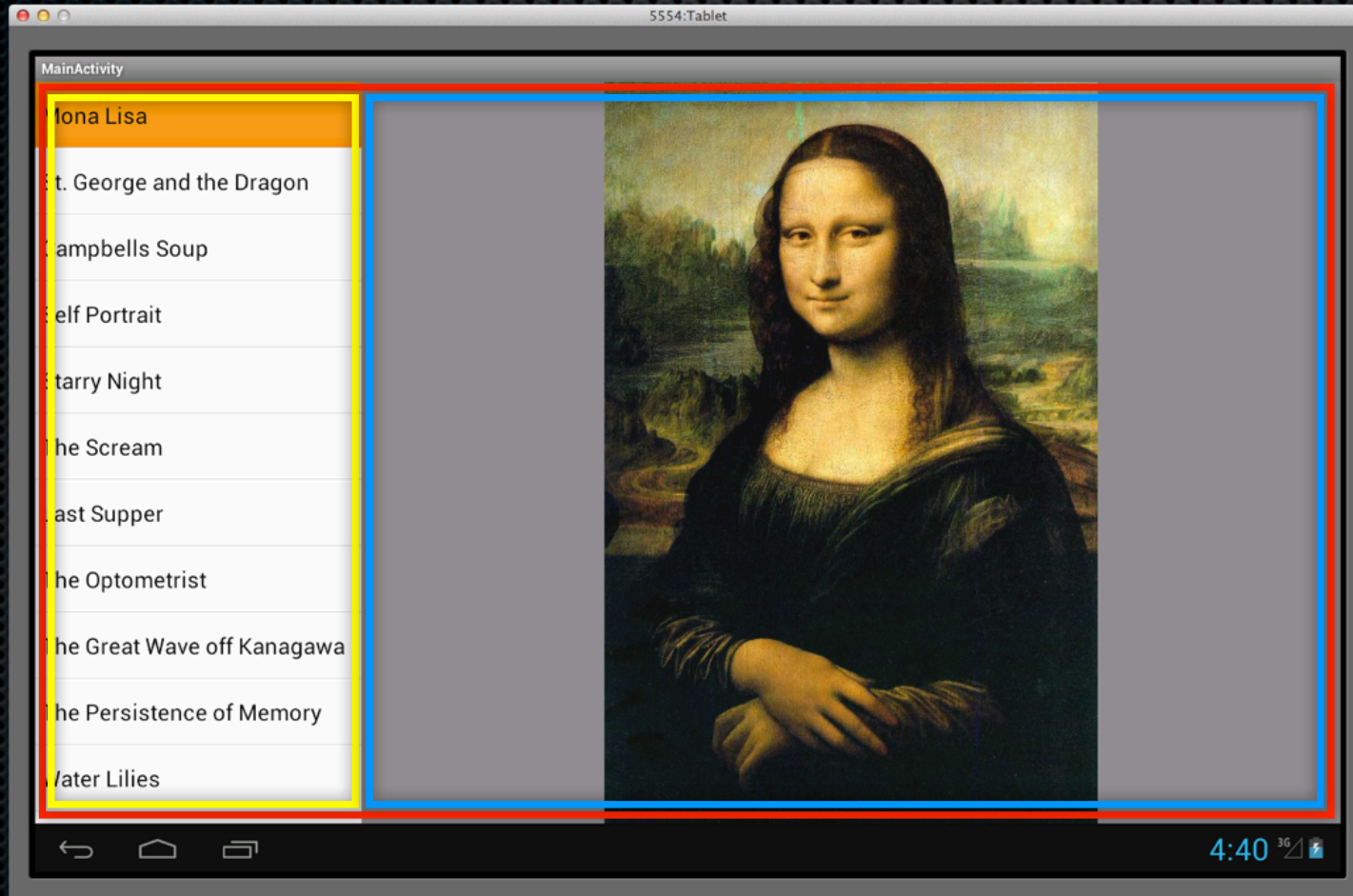
Fragments

— LinearLayout



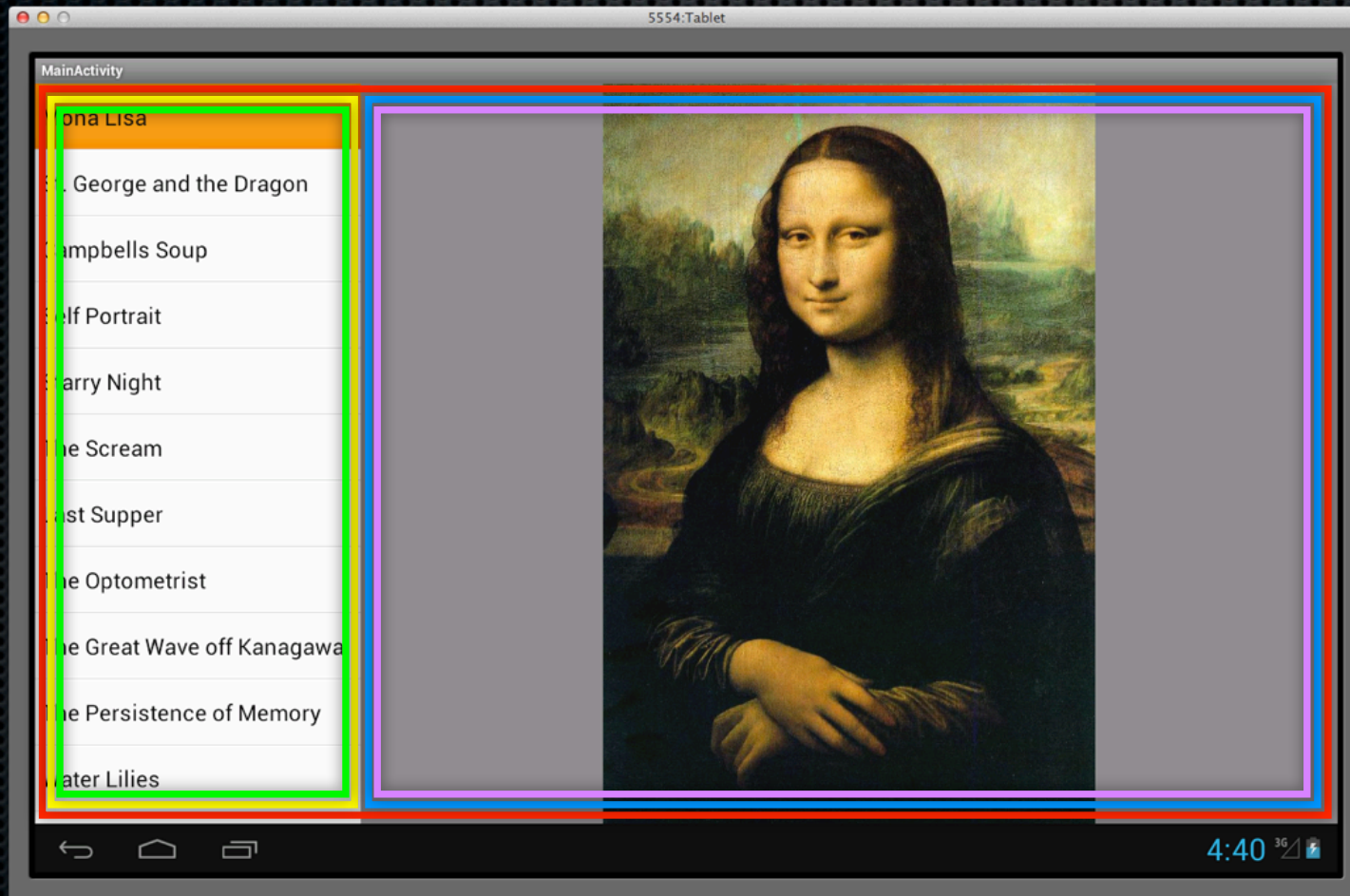
Fragments

- LinearLayout
- FrameLayout
- FrameLayout

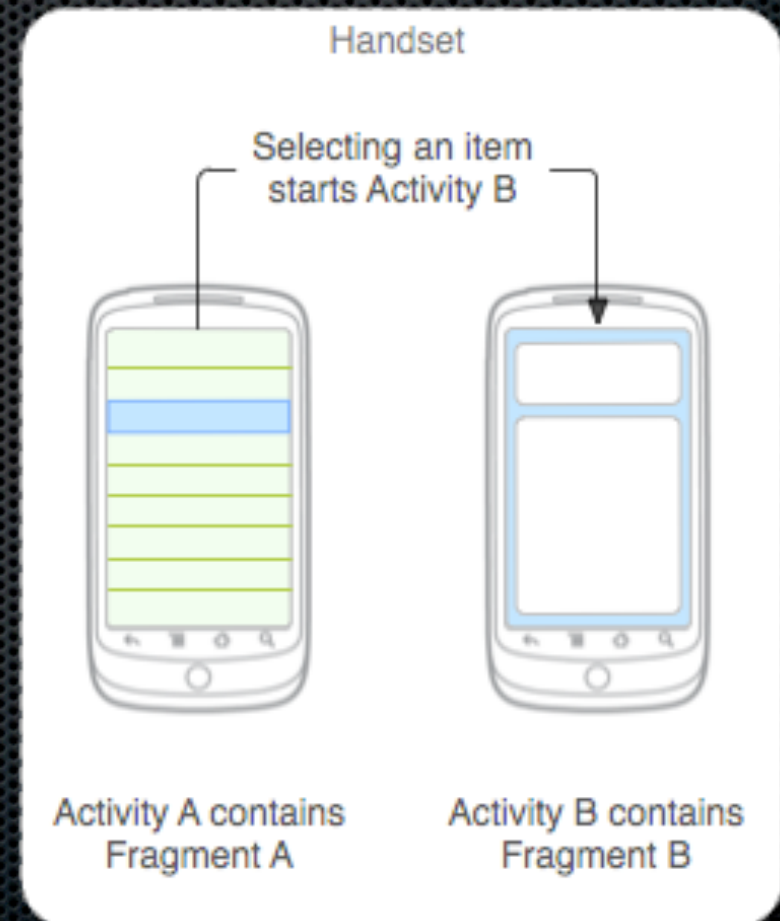
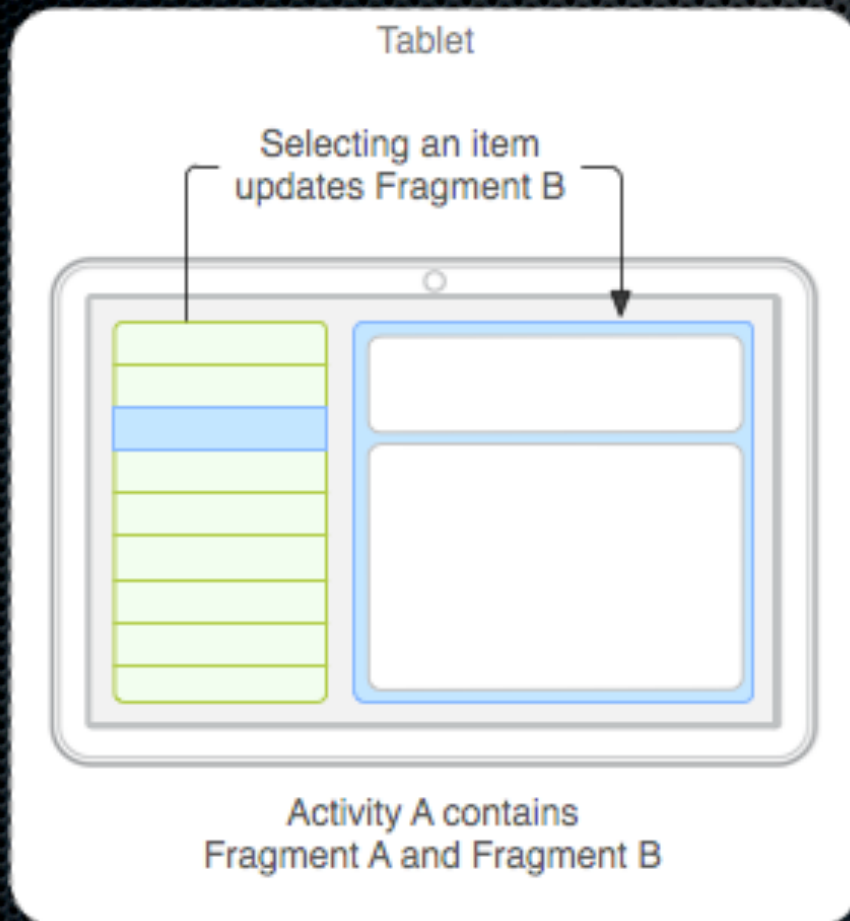


Fragments

- LinearLayout
- FrameLayout
- FrameLayout
- ListFragment
- Fragment



Fragments



Fragments

- ❖ Acts like a **sub-activity**
- ❖ Attached and removed from an activity using the **FragmentManager**
- ❖ Attachment or removal of many fragments with **FragmentManager**
- ❖ Lifecycle **tied to parent** activity
- ❖ Adds `onAttach / onDetach` and `onCreateView / onDestroyView`

