

**Android  
Advance  
Lesson 2  
Tablayout and  
ViewPager**



# Outline

- I. Introduction to Viewpager**
- II. Introduction to TabLayout**

A decorative border resembling a scroll, with a vertical strip on the left and a horizontal strip at the top, both featuring a scroll-like edge. The text is centered within this frame.

# I. Introduction to Viewpager

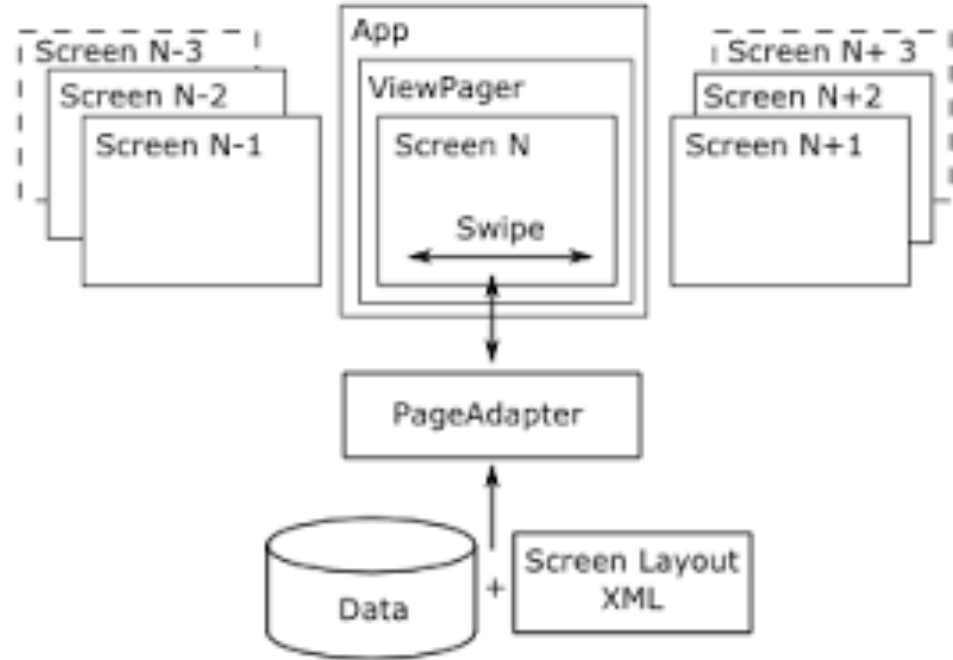


# 1. What is ViewPager?

- Layout manager that allows the user to flip left and right through pages of data. You supply an implementation of a PagerAdapter to generate the pages that the view shows.
- ViewPager is most often used in conjunction with Fragment, which is a convenient way to supply and manage the lifecycle of each page.

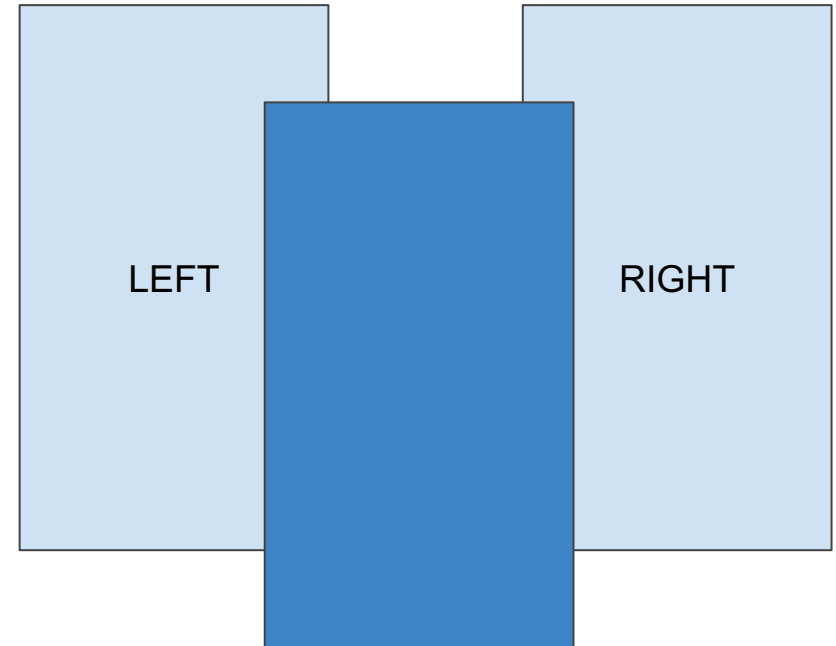
## 2. Design for ViewPager

- ViewPager
- PageAdapter
- PageTransformer



## 2. Design for ViewPager

- Two virtual page: Right and Left
- Swipe to virtual page upon to set it back.



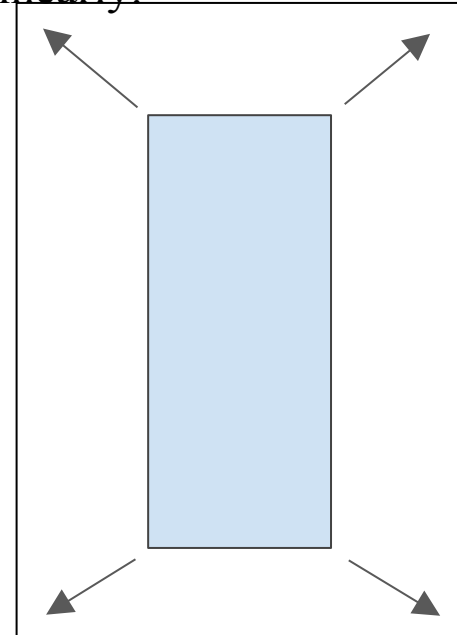


## 3. Pager Adapter

- Fragment pager adapter
- Instantiate a fragment when showing it.

## 4. Page Transformer

- While it is instantiated, transforming with PageTransformer.
- Depth animation fades the page out, and scales it down linearly.



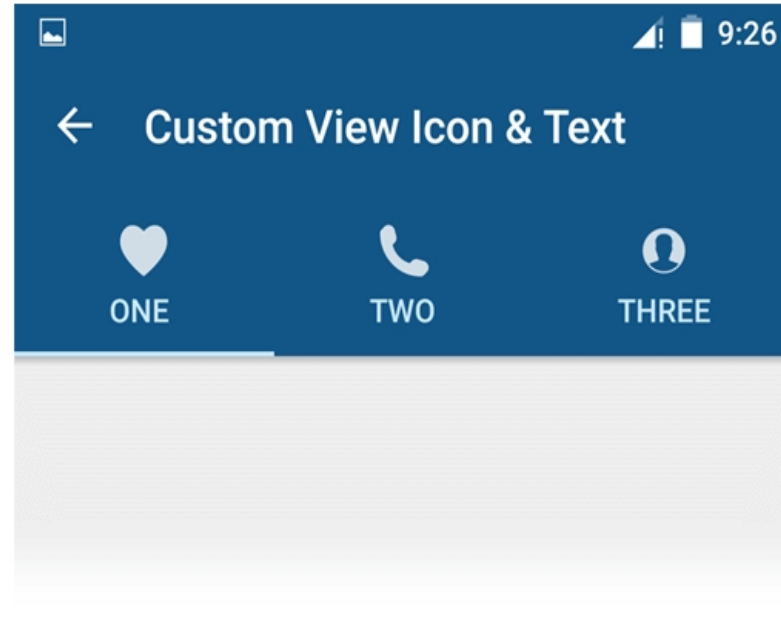


A decorative border resembling a scroll, with a vertical strip on the left and a horizontal strip at the top, both featuring a scroll-like edge. The text is centered within this frame.

## II. Introduction to TabLayout

# 1. What is TabLayout?

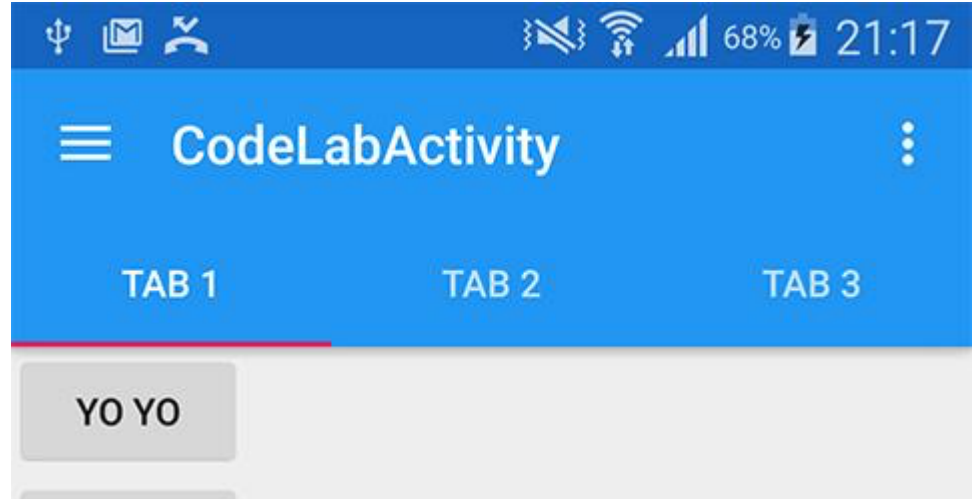
- TabLayout provides a **horizontal** layout to **display tabs**.





## 2. TabLayout and ViewPager

```
<android.support.v4.view.ViewPager  
    android:layout_width="match_parent"  
    android:layout_height="match_parent">  
    <android.support.design.widget.TabLayout  
        android:layout_width="match_parent"  
        android:layout_height="wrap_content"  
        android:layout_gravity="top" />  
</android.support.v4.view.ViewPager>
```





## 3. Attributes of TabLayout

tabBackground	@drawable/image	Background applied to the tabs
tabGravity	center, fill	Gravity of the tabs
tabIndicatorColor	@color/blue	Color of the tab indicator line
tabIndicatorHeight	@dimen/tabh	Height of the tab indicator line
tabMaxWidth	@dimen/tabmaxw	Maximum width of the tab
tabMode	fixed, scrollable	Small number of fixed tabs or scrolling list
tabTextColor	@color/blue	Color of the text on the tab



## 4. Sample

<https://github.com/DoanVanToan/TabLayoutViewPager>



# Q&A

# Exercise

- Apply the knowledge above create Project like bellow:

