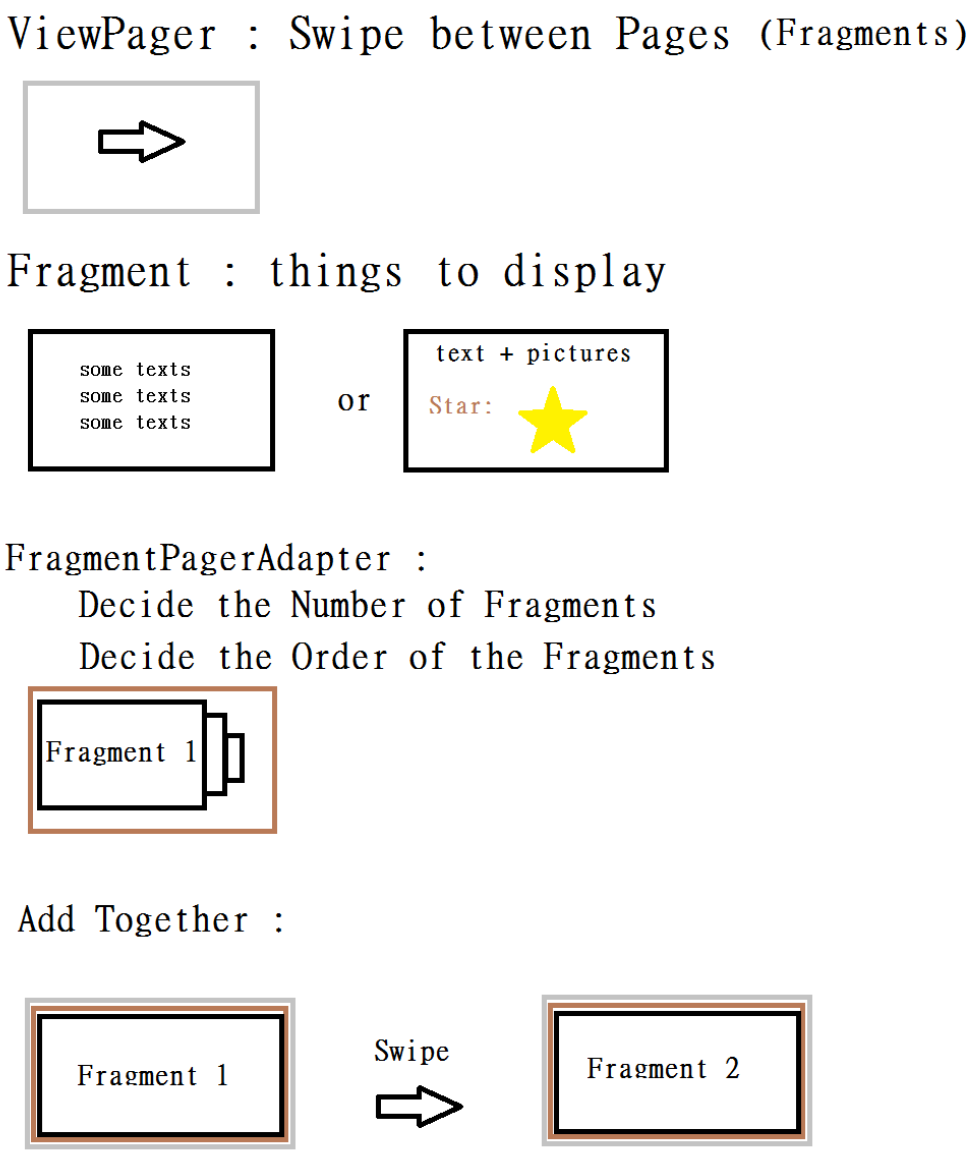
What is a ViewPager?

A ViewPager is used when you want to swipe between different fragments.

Threes things when using ViewPager

1. ViewPager 2. Fragment 3. FragmentPagerAdapter

From my perspective, it looks like this :



How to use ViewPager?

Step 1. Add ViewPager in your .xml file

```
<android.support.v4.view.ViewPager
    android:id="@+id/myViewPager"
    android:layout_width="match_parent"
    android:layout_height="wrap_content">
</android.support.v4.view.ViewPager>
```

Step 2. Define the Fragments which you want to use

Here is an example

```
public class FirstFragment extends Fragment {
    // Store instance variables
    private String title;
    private int page;

    // newInstance constructor for creating fragment with arguments
    public static FirstFragment newInstance(int page, String title) {
        FirstFragment fragmentFirst = new FirstFragment();
        Bundle args = new Bundle();
        args.putInt("someInt", page);
        args.putString("someTitle", title);
        fragmentFirst.setArguments(args);
        return fragmentFirst;
    }

    // Store instance variables based on arguments passed
    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        page = getArguments().getInt("someInt", 0);
        title = getArguments().getString("someTitle");
    }

    // Inflate the view for the fragment based on layout XML
    @Override
    public View onCreateView(LayoutInflater inflater, ViewGroup container,
            Bundle savedInstanceState) {
        View view = inflater.inflate(R.layout.fragment_first, container, false);
        TextView tvLabel = (TextView) view.findViewById(R.id.TextView);
        tvLabel.setText(page + " -- " + title);
        return view;
    }
}
```

The .xml layout for FirstFragment :

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="vertical" android:layout_width="match_parent"
    android:layout_height="match_parent">
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textAppearance="?android:attr/textAppearanceLarge"
        android:text="Large Text"
        android:id="@+id/textView"
        android:layout_gravity="center_horizontal" />
</LinearLayout>
```

Step 3. Setup your FragmentPagerAdapter (Adapter:接合器)

It determines **how many pages exist** and **which fragment to display for each page**

Here is an example:

```
public class MainActivity extends AppCompatActivity {
    // ...
    public static class MyPagerAdapter extends FragmentPagerAdapter {
    private static int NUM_ITEMS = 3; // total number of pages
        public MyPagerAdapter(FragmentManager fragmentManager) {
            super(fragmentManager);
        }
        // Returns total number of pages
        @Override
        public int getCount() {
            return NUM_ITEMS;
        }
        // Returns the fragment to display for that page
        @Override
        public Fragment getItem(int position) {
            switch (position) {
            case 0: // Fragment # 0 - This will show FirstFragment
                return FirstFragment.newInstance(0, "Page # 1");
            case 1: // Fragment # 0 - This will show FirstFragment different title
                return FirstFragment.newInstance(1, "Page # 2");
            case 2: // Fragment # 1 - This will show FirstFragment
                return FirstFragment.newInstance(2, "Page # 3");
            default:
                return null;
            }
        }

        // Returns the page title for the top indicator
        @Override
        public CharSequence getPageTitle(int position) {
            return "Page " + position;
        }
    }
}
```

Last step: Apply the Adapter

```
public class MainActivity extends AppCompatActivity {

    FragmentPagerAdapter adapterViewPager;



    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_home);

        ViewPager mViewPager = (ViewPager) findViewById(R.id.myViewPager);

         FragmentPagerAdapter mfragmentPagerAdapter =

        new MyPagerAdapter(getSupportFragmentManager());

        mViewPager.setAdapter(mfragmentPagerAdapter);

    }



    // ...

}
```

Reference website :

https://github.com/codepath/android_guides/wiki/ViewPager-with-FragmentPagerAdapter