

第 11 章

ViewPager

ViewPager activity CrimeFragment activity
11-1 UI ViewPager

11-1 Crime
11-2 CriminalIntent CrimePagerActivity
activity CrimeActivity ViewPager
 CriminalIntent
Crime CrimeFragment

- ❑ CrimePagerActivity
- ❑ ViewPager
- ❑ CrimePagerActivity ViewPager adapter;

- ❑ CrimeListFragment.onListItemClick(...) CrimePagerActivity
CrimeActivity。

11-2 CrimePagerActivity

11

11.1 CrimePagerActivity

CrimePagerActivity FragmentActivity CriminalIntent
 ViewPager
 FragmentActivity CrimePagerActivity
 onCreate(Bundle) mViewPager
 ViewPager 11-1

11-1 ViewPager CrimePagerActivity.java

```
public class CrimePagerActivity extends FragmentActivity {
    private ViewPager mViewPager;

    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
    }
}
```

11.1.1

XML

Android

XML

component

ID

ViewPager

FragmentManager

fragment

ID

ViewPager

fragment

ID

- ☐ ViewPager ID
- ☐ ViewPager mViewPager
- ☐ ID ViewPager
- ☐ ViewPager activity

ID

ID

res/values

XML

res/values/ids.xml

Android XML

ID

viewPager

ID

11-2

11-2

ID

res/values/ids.xml

```
<?xml version="1.0" encoding="utf-8"?>
<resources xmlns:android="http://schemas.android.com/apk/res/android">

    <item type="id" name="viewPager" />

</resources>
```

ID

ViewPager

CrimePagerActivity.java

ViewPager

11-3

11-3

CrimePagerActivity.java

```
@Override
public void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    mViewPager = new ViewPager(this);
    mViewPager.setId(R.id.viewPager);
    setContentView(mViewPager);
}
```

ViewPager

Fragment

ViewPager

SDK

"

"ViewPager

11.1.2 ViewPager PagerAdapter

ViewPager AdapterView ListView AdapterView
 Adapter ViewPager PagerAdapter
 AdapterView Adapter ViewPager PagerAdapte
 PagerAdapte ——FragmentStatePagerAdapter

FragmentStatePagerAdapter
 getCount() getItem(int) getItem(int) crime Crime
 crime CrimeFragment
 CrimePagerActivity 11-4 ViewPager pager adapter
 getCount() getItem(int)

11-4 pager adapter CrimePagerActivity.java

```
public class CrimePagerActivity extends FragmentActivity {
    private ViewPager mViewPager;
    private ArrayList<Crime> mCrimes;

    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        mViewPager = new ViewPager(this);
        mViewPager.setId(R.id.viewPager);
        setContentView(mViewPager);

        mCrimes = CrimeLab.get(this).getCrimes();

        FragmentManager fm = getSupportFragmentManager();
        mViewPager.setAdapter(new FragmentStatePagerAdapter(fm) {
            @Override
            public int getCount() {
                return mCrimes.size();
            }

            @Override
            public Fragment getItem(int pos) {
                Crime crime = mCrimes.get(pos);
                return CrimeFragment.newInstance(crime.getId());
            }
        });
    }
}

CrimeLab    crime    ArrayList

activity    FragmentManager
           adapter    FragmentStatePagerAdapter
FragmentState- PagerAdapter                      FragmentManager
FragmentStatePagerAdapter                      ViewPager
```

```

        getItem(int)                      fragment      activity                      fragment
        FragmentManager
        fragment                      activity
ViewPager      fragment
    Pager adapter                      getCount()
    getItem(int)                      Crime
Crime      ID                      CrimeFragment
    
```

11.1.3 CrimePagerActivity

```

        CrimeActivity                      CrimePagerActivity
        CrimeListFragment                      CrimeListFragment
        CrimePagerActivity                      CrimeActivity
        CrimeListFragment.java                      onItemClick(...)
CrimePagerActivity                      11-5
    
```

11-5 CrimePagerActivity CrimeListFragment.java

```

@Override
public void onItemClick(ListView l, View v, int position, long id) {
    // Get the Crime from the adapter
    Crime c = ((CrimeAdapter)getListAdapter()).getItem(position);
    // Start CrimeActivity
    Intent i = new Intent(getActivity(), CrimeActivity.class);
    // Start CrimePagerActivity with this crime
    Intent i = new Intent(getActivity(), CrimePagerActivity.class);
    i.putExtra(CrimeFragment.EXTRA_CRIME_ID, c.getId());
    startActivity(i);
}
    
```

```

        manifest                      CrimePagerActivity
        11-6                      AndroidManifest.xml                      CrimePagerActivity
        CrimeActivity
    
```

11-6 CrimePagerActivity manifest AndroidManifest.xml

```

<?xml version="1.0" encoding="utf-8"?>
<manifest ...>
    ...
    <application ...>
        ...
        <activity
            android:name=".CrimeActivity"
            android:label="@string/app_name">
        </activity>
        <activity android:name=".CrimePagerActivity"
            android:label="@string/app_name">
        </activity>
    
```

```

    </application>
</manifest>

CrimeActivity.java
    CriminalIntent    Crime #0    crime
                                ViewPager
setOffscreenPageLimit(int)
    ViewPager    Crime
ViewPager    Crime
    ViewPager    PageAdapter    ViewPager
    Crime
    CrimePagerActivity.onCreate(...)    crime ID    crime
                                Crime    mId    intent extra    crimeId
    Crime    11-7

```

11-7 CrimePagerActivity.java

```

public class CrimePagerActivity extends FragmentActivity {
    @Override
    public void onCreate(Bundle savedInstanceState) {
        ...

        FragmentManager fm = getSupportFragmentManager();
        mViewPager.setAdapter(new FragmentStatePagerAdapter(fm) {
            ...

            UUID crimeId = (UUID)getIntent()
                .getSerializableExtra(CrimeFragment.EXTRA_CRIME_ID);
            for (int i = 0; i < mCrimes.size(); i++) {
                if (mCrimes.get(i).getId().equals(crimeId)) {
                    mViewPager.setCurrentItem(i);
                    break;
                }
            }
        });
    }
}

```

```

    CriminalIntent    Crime
                                activity

    Crime    ViewPager.OnPageChangeListener
    11-8

```

11-8 OnPageChangeListener CrimePagerActivity.java

```

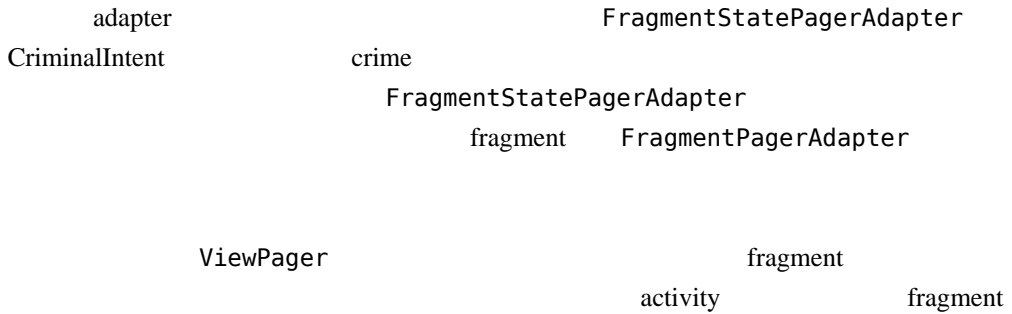
@Override
public void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
}

```


	11.1	CrimePagerActivity	181
		FragmentManager	
		FragmentPagerAdapter	
		fragment	
		fragment	
11-4			

11-3	FragmentStatePagerAdapter	fragment
------	---------------------------	----------

11-4	FragmentPagerAdapter	fragment
------	----------------------	----------

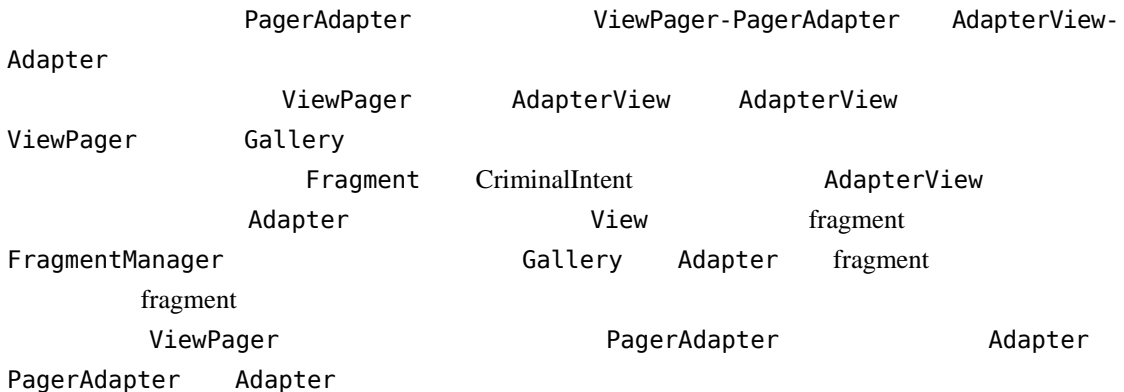


11.2 ViewPager

ViewPager PagerAdapter
ViewPager

❑ Android ViewPager

❑



getView(...) PagerAdapter

```

public Object instantiateItem(ViewGroup container, int position)
public void destroyItem(ViewGroup container, int position, Object object)
public abstract boolean isViewFromObject(View view, Object object)

```

PagerAdapter.instantiateItem(ViewGroup, int) pager adapter

ViewGroup

destroyItem(ViewGroup, int,

Object)

pager adapter

instantiateItem(ViewGroup, int)

PagerAdapter

```

                ViewPager
    isViewFromObject(View, Object)
int)
A
    true
    ViewPager
PagerAdapter
PagerAdapter
fragment
Object)
@Override
public boolean isViewFromObject(View view, Object object) {
    return ((Fragment)object).getView() == view;
}

                ViewPager
                ViewPager
                instantiateItem (ViewPager,
                instantiateItem(ViewGroup, 5)
                isViewFromObject(View, A)
                PagerAdapter
                instantiateItem(ViewGroup, int)
                fragmentObject
                isViewFromObject(View,
                PagerAdapter
                FragmentPagerAdapter
                FragmentStatePagerAdapter

```