

# Implementing Tabs

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# Source Code



**Module\_7/start/TabianDating**



# Implementing Tabs

**Absolutely need to use fragments**

**Adapter class: `FragmentPagerAdapter`**



Fragment  
Pager  
Adapter

**Designed specifically for tabs**

**Prevents fragments from being destroyed**

**Organization**



Fragment  
State  
Pager  
Adapter

**FragmentPagerAdapter**

**FragmentStatePagerAdapter**



# Rules

## **FragmentPagerAdapter**

- 5 fragments or less

## **FragmentStatePagerAdapter**

- More than 5 fragments
- Not meant for tabs



# Using a ViewPager Widget and TabLayout

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# Implementing Tabs and a ViewPagerAdapter

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# Using onActivityResult to Retrieve Images

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# Module Review

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# Layout And Widgets

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

```
</android.support.v4.view.ViewPager>
```

```
<android.support.design.widget.TabLayout  
    android:layout_width="match_parent"  
    android:layout_height="?attr/actionBarSize"  
    android:id="@+id/tabs_bottom"  
    android:background="#fff">
```

```
</android.support.design.widget.TabLayout>
```



# MyPagerAdapter

```
public class MyPagerAdapter extends FragmentPagerAdapter {  
  
    private final List<Fragment> mFragmentList = new  
    ArrayList<>();  
  
    public MyPagerAdapter(FragmentManager fm) {  
        super(fm);  
    }  
    @Override  
    public Fragment getItem(int position) {  
        return mFragmentList.get(position);  
    }  
    @Override  
    public int getCount() {  
        return mFragmentList.size();  
    }  
    public void addFragment(Fragment fragment){  
        mFragmentList.add(fragment);  
    }  
}
```



```
MyPagerAdapter adapter = new MyPagerAdapter(getSupportFragmentManager());  
mGalleryFragment = new GalleryFragment();  
mPhotoFragment = new PhotoFragment();  
adapter.addFragment(mGalleryFragment);  
adapter.addFragment(mPhotoFragment);  
  
mViewPager.setAdapter(adapter);  
  
TabLayout tabLayout = (TabLayout) findViewById(R.id.tabs_bottom);  
tabLayout.setupWithViewPager(mViewPager);  
tabLayout.getTabAt(GALLERY_FRAGMENT).setText(getString(R.string.tag_fragment_gallery));  
tabLayout.getTabAt(PHOTO_FRAGMENT).setText(getString(R.string.tag_fragment_photo));
```

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# setupViewPager

## Add GalleryFragment and PhotoFragment to the PagerAdapter

## Setup the TabLayout



```
getActivity().setResult(NEW_PHOTO_REQUEST,  
getActivity().getIntent().putExtra(getString(R.string.intent_new_gallery_photo),  
mSelectedImage));  
getActivity().finish();
```

```
getActivity().setResult(NEW_PHOTO_REQUEST,  
data.putExtra(getString(R.string.intent_new_camera_photo), mOutputUri.toString()));  
getActivity().finish();
```

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## Retrieving Images

Using “setResult” to send the images back to SettingsFragment



```
if(requestCode == NEW_PHOTO_REQUEST) {  
    if (data != null) {  
        if (data.hasExtra(getString(R.string.intent_new_gallery_photo))) {  
            // NEW INCOMING IMAGE FROM GALLERY  
  
            // Set the image with Glide and save pointer to Shared Preferences  
        }  
        else if (data.hasExtra(getString(R.string.intent_new_camera_photo))) {  
            // NEW INCOMING IMAGE FROM CAMERA  
  
            // Set the image with Glide and save pointer to Shared Preferences  
        }  
    }  
}
```

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## OnActivityResult

Retrieving the images from GalleryFragment or PhotoFragment



# Choosing a New Image

## GalleryFragment

Choose an image  
from memory

setResult:  
`Intent_new_gallery_photo`

## PhotoFragment

Take a new photo  
with Camera

setResult:  
`Intent_new_camera_photo`

## SettingsFragment

OnActivityResult





Up  
Next

**Review everything covered in the course**

