#### 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

FragmentStatePagerAdatper



#### Rules

#### FragmentPagerAdapter

- 5 fragments or less

#### FragmentStatePagerAdapter

- More than 5 fragments
- Not meant for tabs



### Using a ViewPager Widget and TabLayout



# Implementing Tabs and a ViewPagerAdapter



### Using OnActivityResult to Retrieve Images



#### Module Review



# Layout And Widgets

```
<android.support.v4.view.ViewPager</pre>
    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</pre>
    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));
```

# 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();
```

#### 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

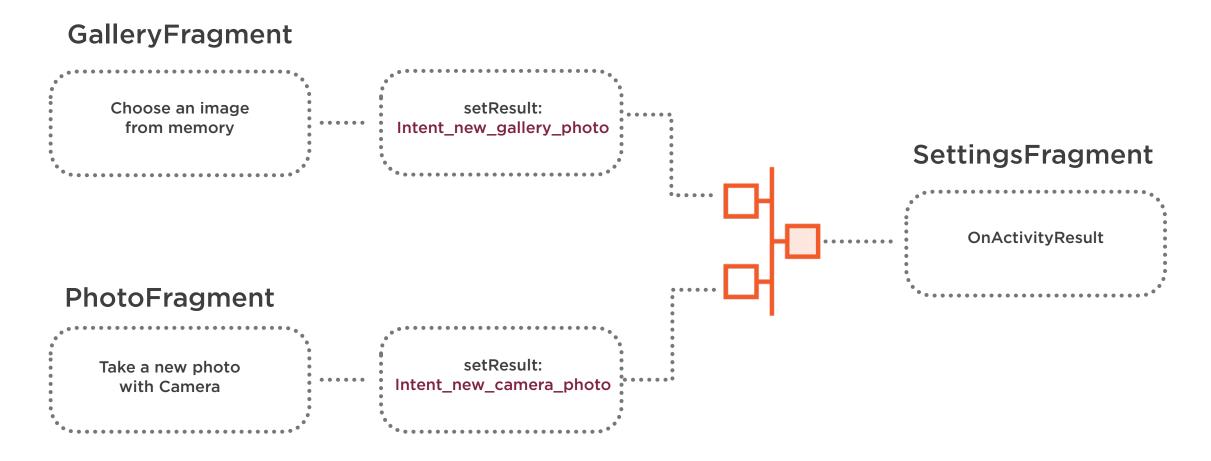
        // Set the image with Glide and save pointer to Shared Preferences
        }
    }
}
```

# OnActivityResult

Retrieving the images from GalleryFragment or PhotoFragment



# Choosing a New Image





Up Next

Review everything covered in the course

