

Navigating with Fragments



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Navigation Methods



Module_3/start/TabianDating



Fragment
vs
Activity

What's the difference?



Activities



Main container

Anchor for content

Can't do anything without an activity

Fragments



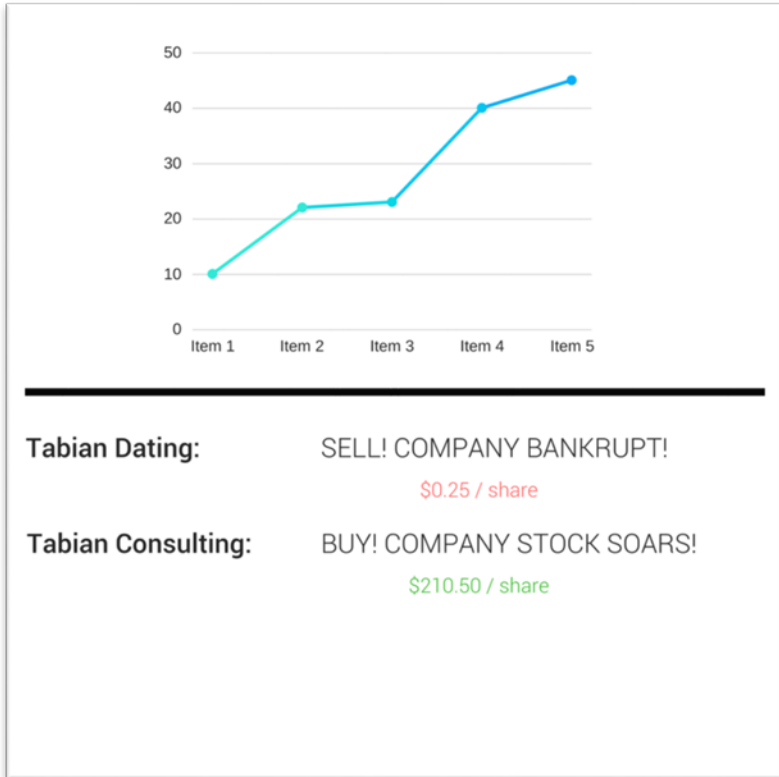
Occupy the entire view

Fragment stacking

Many fragments next to one another

Anything you can think of

An Example



Numbers on the bottom

Graph on the top

Communicate through an interface



Activities vs Fragments

Activity

Only one in view at a given time

Activities are “activities”

Define actions

Fragment

Can not host an activity

Fragments are just “views”

Define containers that facilitate actions



Fragment vs Activity

When to use a fragment? And when to use an Activity?





**Whatever will yield the best user
experience**





Activities don't look as good!





Activities don't look as good!

- Use activity animations



More Questions?

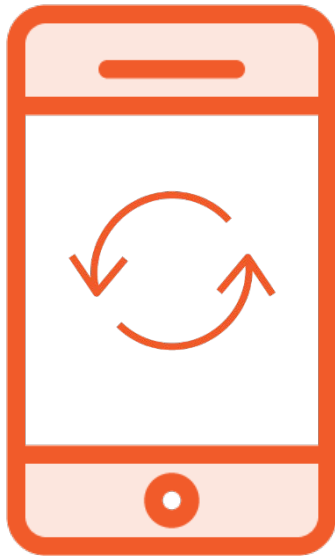


Discussion section of the course

Building and Inflating Fragments

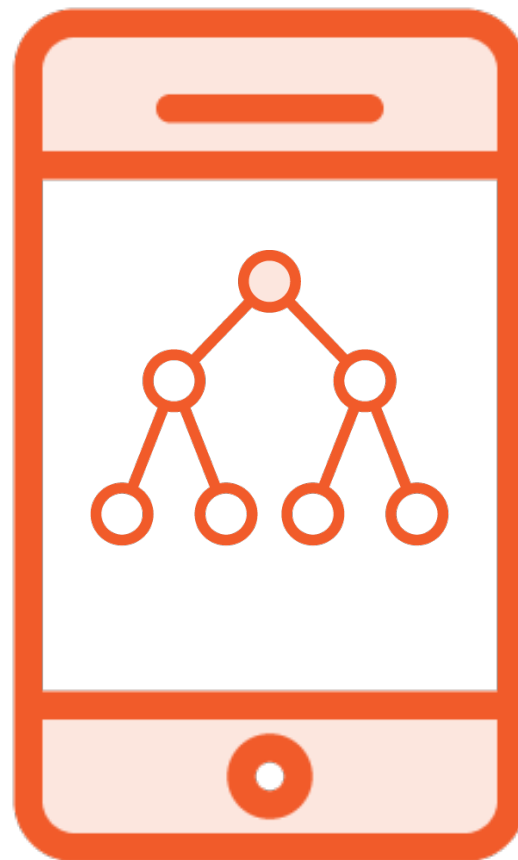
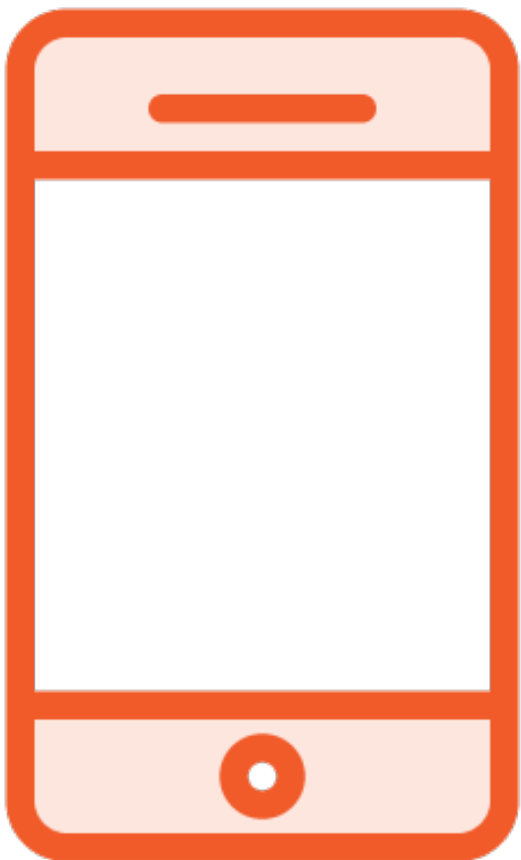


Fragment Back-Navigation



Manually manage the back-stack





addToBackStack

.addToBackStack("fragmentTag");

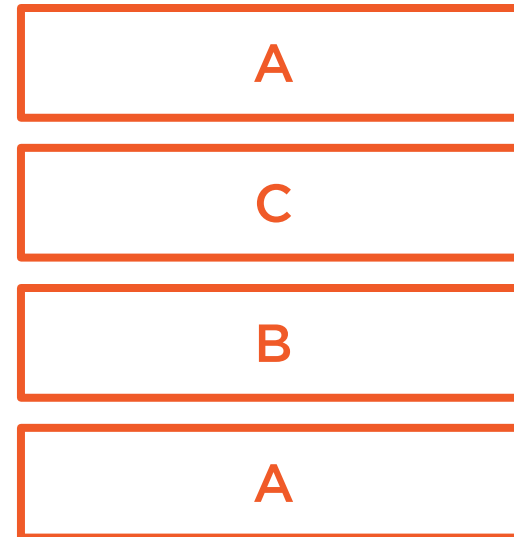


addToBackStack

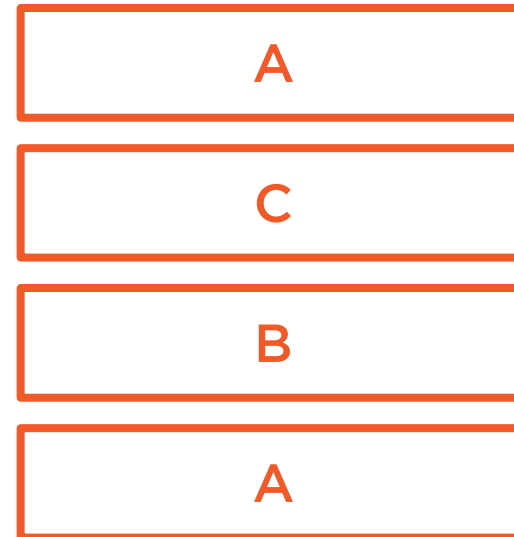
.addToBackStack(null);



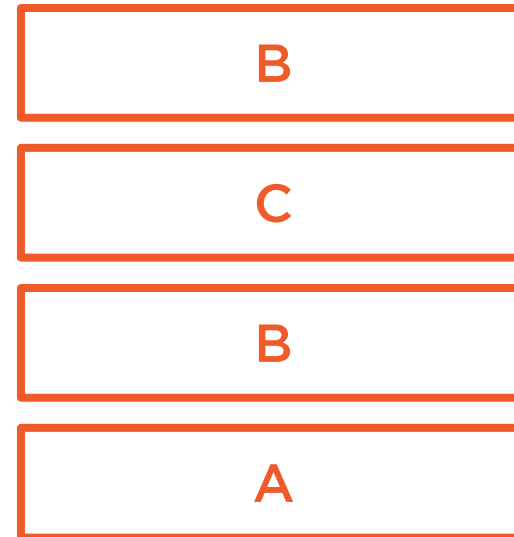
Lego Blocks



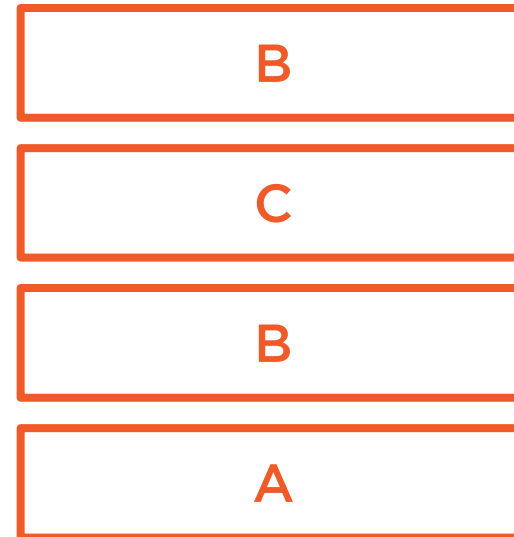
Lego Blocks



Lego Blocks



Lego Blocks



Adding a RecyclerView to a Fragment



Sending Parcelables through a Bundle



Module Review



Inflating a Fragment

```
HomeFragment homeFragment = new HomeFragment();  
FragmentTransaction transaction =  
getSupportFragmentManager().beginTransaction();  
  
transaction.replace(R.id.main_content_frame,  
homeFragment, getString(R.string.tag_fragment_home));  
  
transaction.addToBackStack(getString(R.string.tag_fragment_home));  
  
transaction.commit();
```



Remember!



Two fragments should never communicate directly



Proper Fragment Communication



```
public interface IMainActivity {  
    void inflateViewProfileFragment(User user);  
}
```



Proper Fragment Communication



```
ViewProfileFragment fragment = new ViewProfileFragment();
```

```
Bundle args = new Bundle();  
args.putParcelable(getString(R.string.intent_user), user);  
fragment.setArguments(args);
```

```
FragmentTransaction transaction =  
getSupportFragmentManager().beginTransaction();  
transaction.replace(R.id.main_content_frame, fragment,  
getString(R.string.tag_fragment_view_profile));  
transaction.addToBackStack(getString(R.string.tag_fragment_view  
_profile));  
transaction.commit();
```



Proper Fragment Communication



```
@Override
public void onCreate(@Nullable Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    Bundle bundle = this.getArguments();
    if(bundle != null){
        mUser =
        bundle.getParcelable(getString(R.string.intent_user));
        Log.d(TAG, "onCreate: got incoming bundle: " +
        mUser.getName());
    }
}
```



Up
Next

Implement a bottom navigation view

