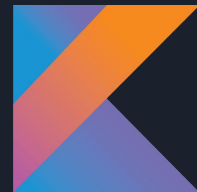


# Kotlin Android Fragments

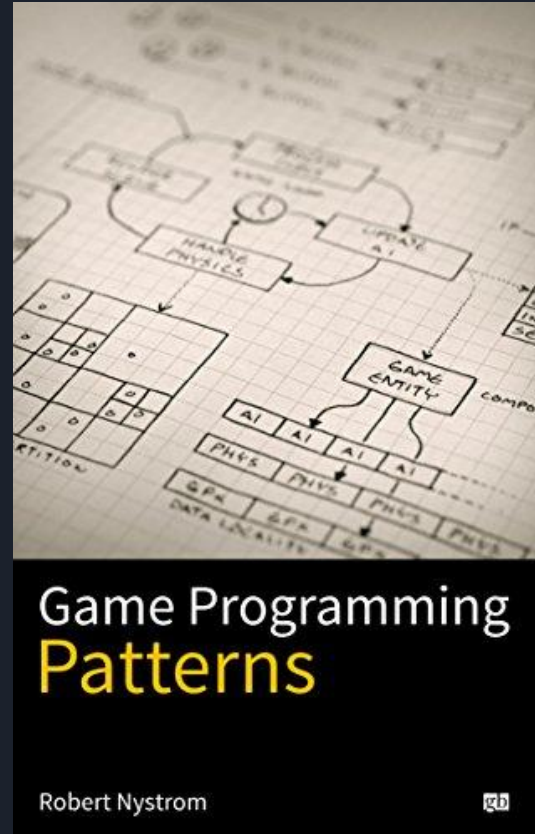


CS 402: Mobile Development

# Book Recommendation

## Game Programming Patterns

<https://amzn.to/2Xd6fU3>





# Fragments

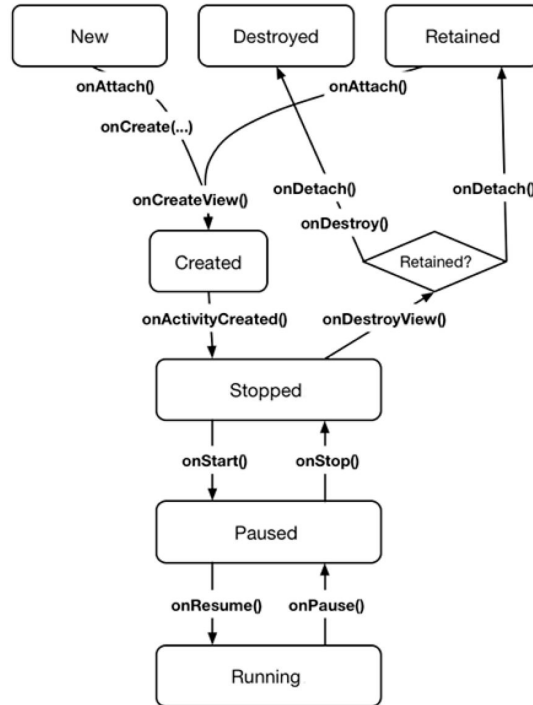
Implemented in Honeycomb (3.0)

All Activity class implementations before that don't know how to handle Fragments.

Fragments allow different layouts to be used in an Activity

# Android Fragment Lifecycle

Figure 7.18 The fragment lifecycle, again





# Android Fragments Class

```
class SomeFragment: Fragment
```



# Android Fragments

```
override fun onCreate(savedInstanceState: Bundle?)
```

Activity's onCreate method is `protected`

Fragment's is `public`



# onCreateView

```
override fun onCreateView(inflater: LayoutInflater?,  
    container: ViewGroup?,  
    savedInstanceState: Bundle?): View?
```



# Inflate the Layout

```
val viewToReturn = inflater!!.inflate(R.layout.fragment_gallery,  
container, false)
```

```
return viewToReturn
```





# Get a UI Element Reference

```
val someFragment =  
    fragmentManager.findFragmentById(R.id.fragmentContainer)
```



# Get Fragment Manager

```
// In parent Activity

supportFragmentManager

    .beginTransaction()

    .replace(R.id.frameContainer, galleryFragment)

    .addToBackStack(galleryFragment.toString())

    .setTransition(FragmentTransaction.TRANSIT_FRAGMENT_OPEN)

    .commit()
```



# Create Fragment

```
val newFragment = AFragmentClass.newInstance()
```

# Android Fragment Lifecycle

Figure 7.18 The fragment lifecycle, again

