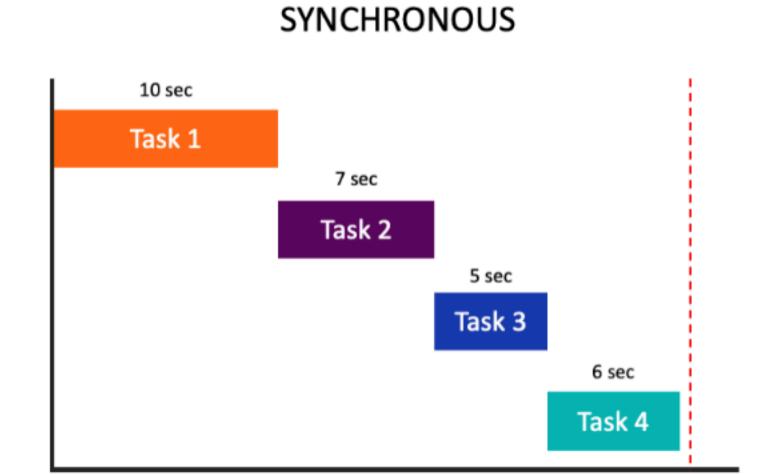
AsyncTask

Android Development

AsyncTask

Android Development

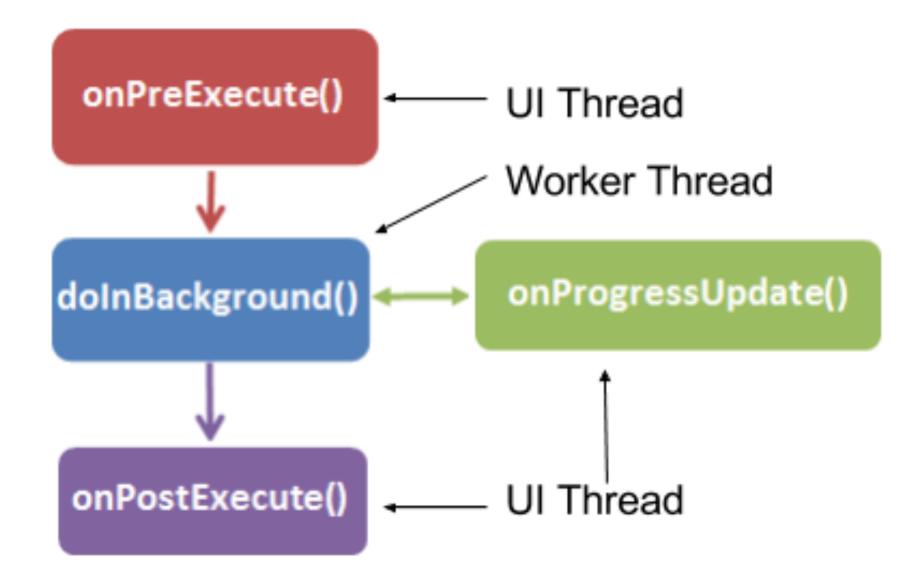
- Asynchronous operations
- AsyncTask
 - WeakReference
- Splitting a String
- Modelling data



Time taken (28 sec)

Task 1 Task 2 Task 3 Task 4 Task 4 Task 4 Task 4 Task 4

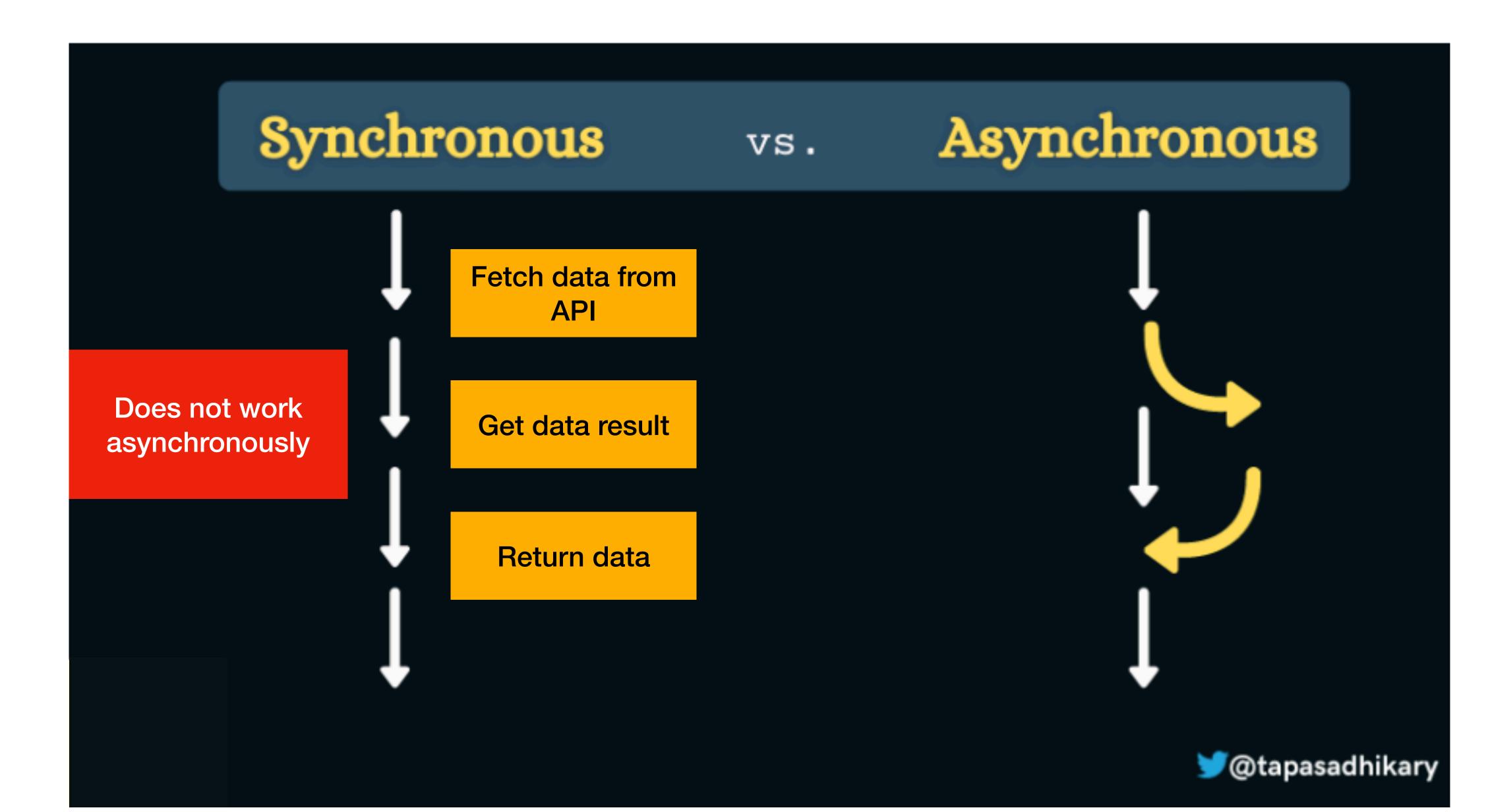
Time taken (10 sec)

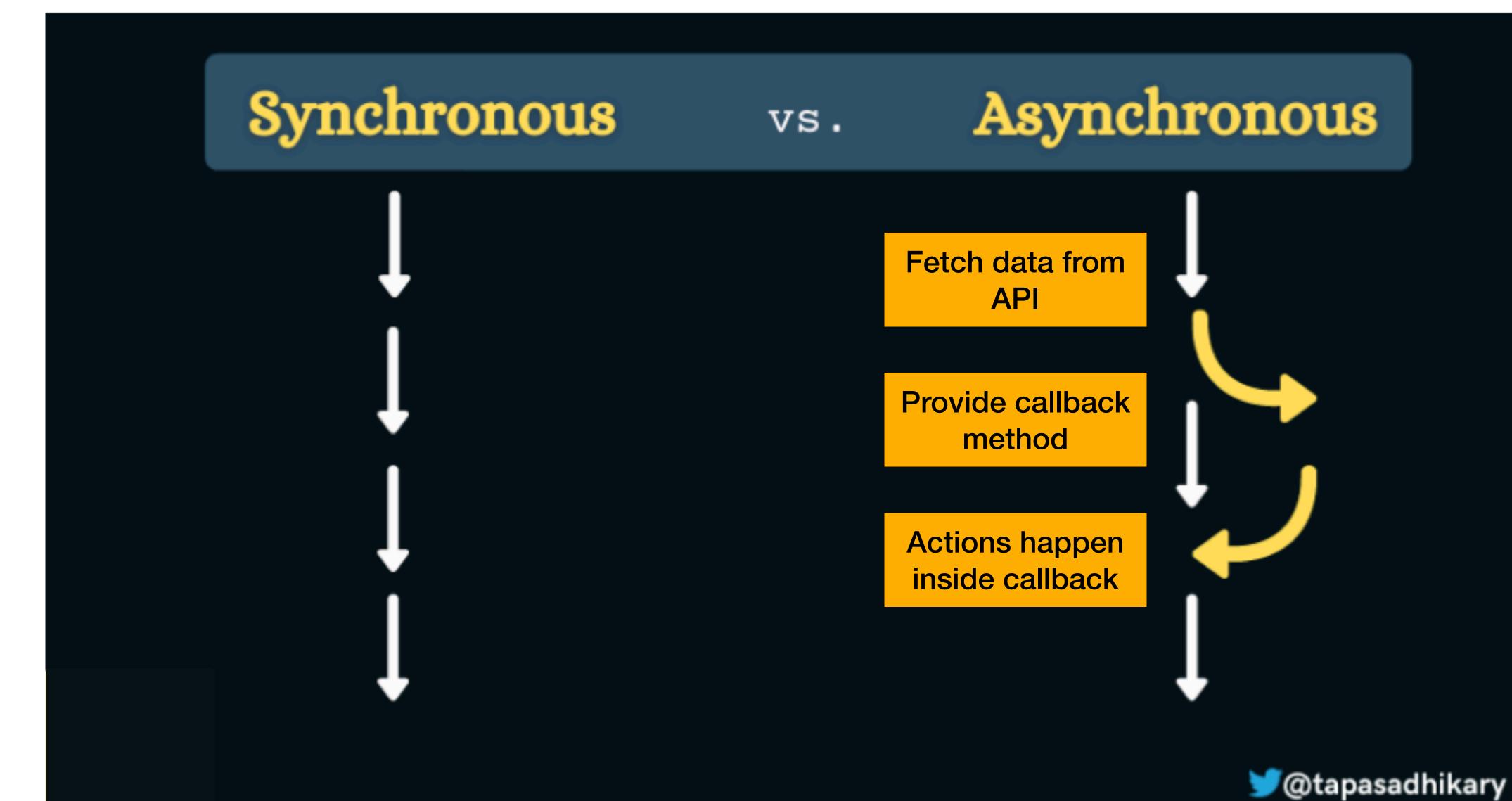


Example of async tasks?

You cannot return values from an asynchronous operation

Callbacks when asynchronous





Synchronous "mindset"

Does not work in asynchronous

```
1 String url = "www.dadjokes.com";
2 String data = getDataFromApi(url);
3 return data;
```

If we "wait" thread is blocked

Asynchronous "mindset"

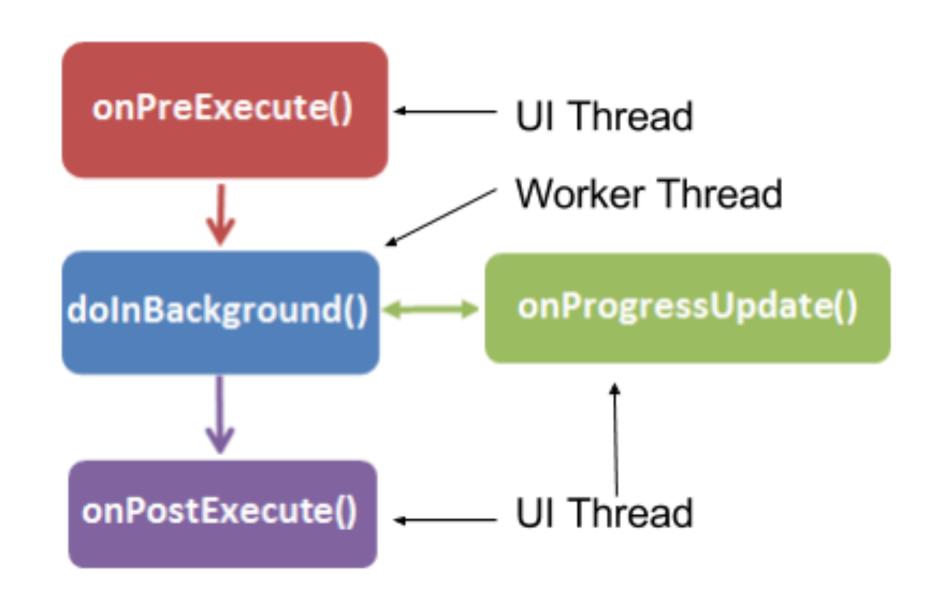
```
public void (method callback){
    String url = "www.dadjokes.com";
    String data = getDataFromApi(url);
    callback(data);
}
```

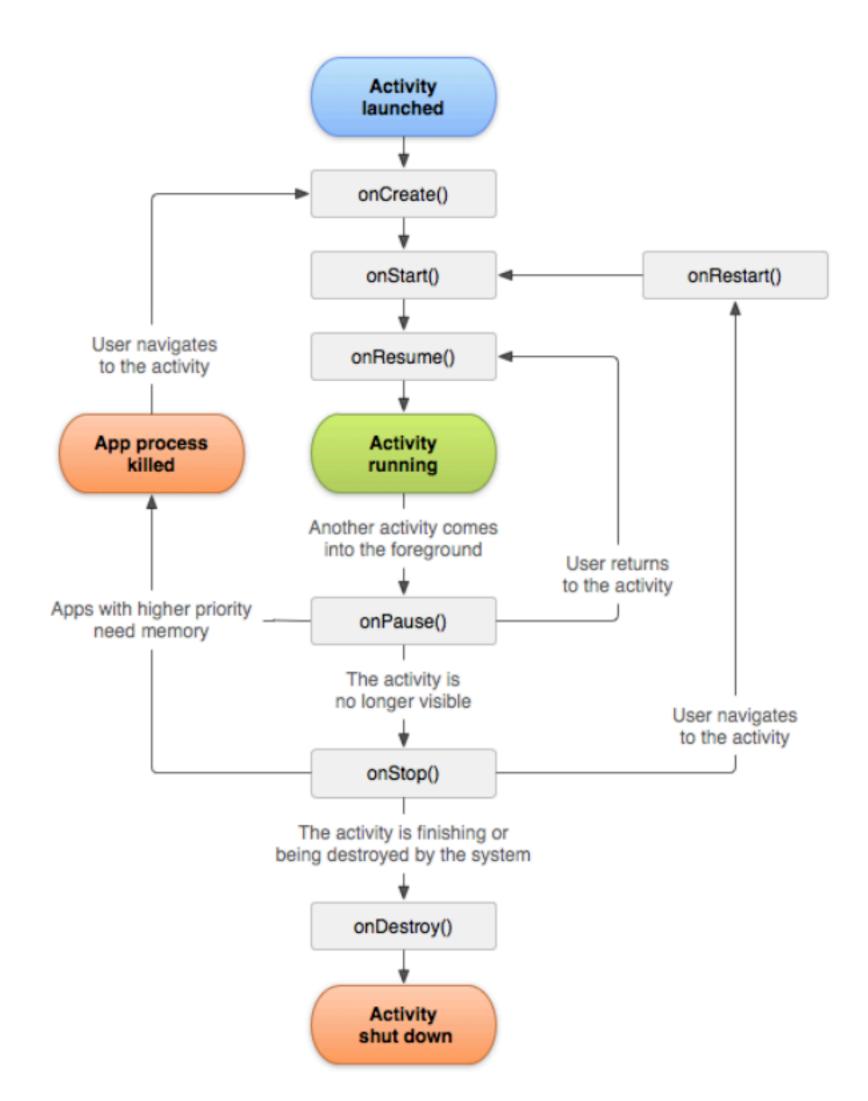
No thread is blocked

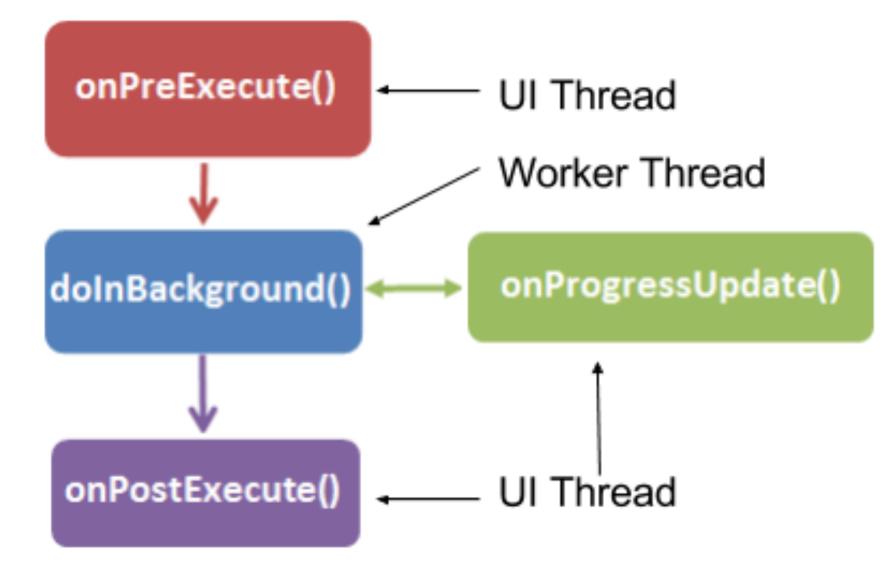
Example is the Javascript way - Java/ Android is a little different, but same concept



```
public class MainActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
}
```





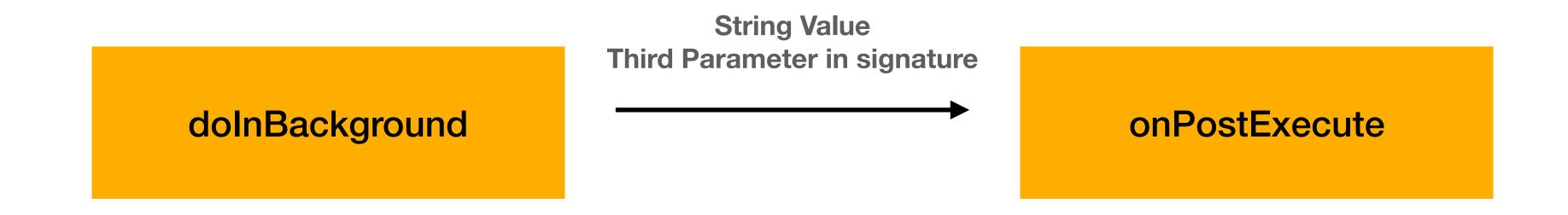


AsyncTask

Implementation details

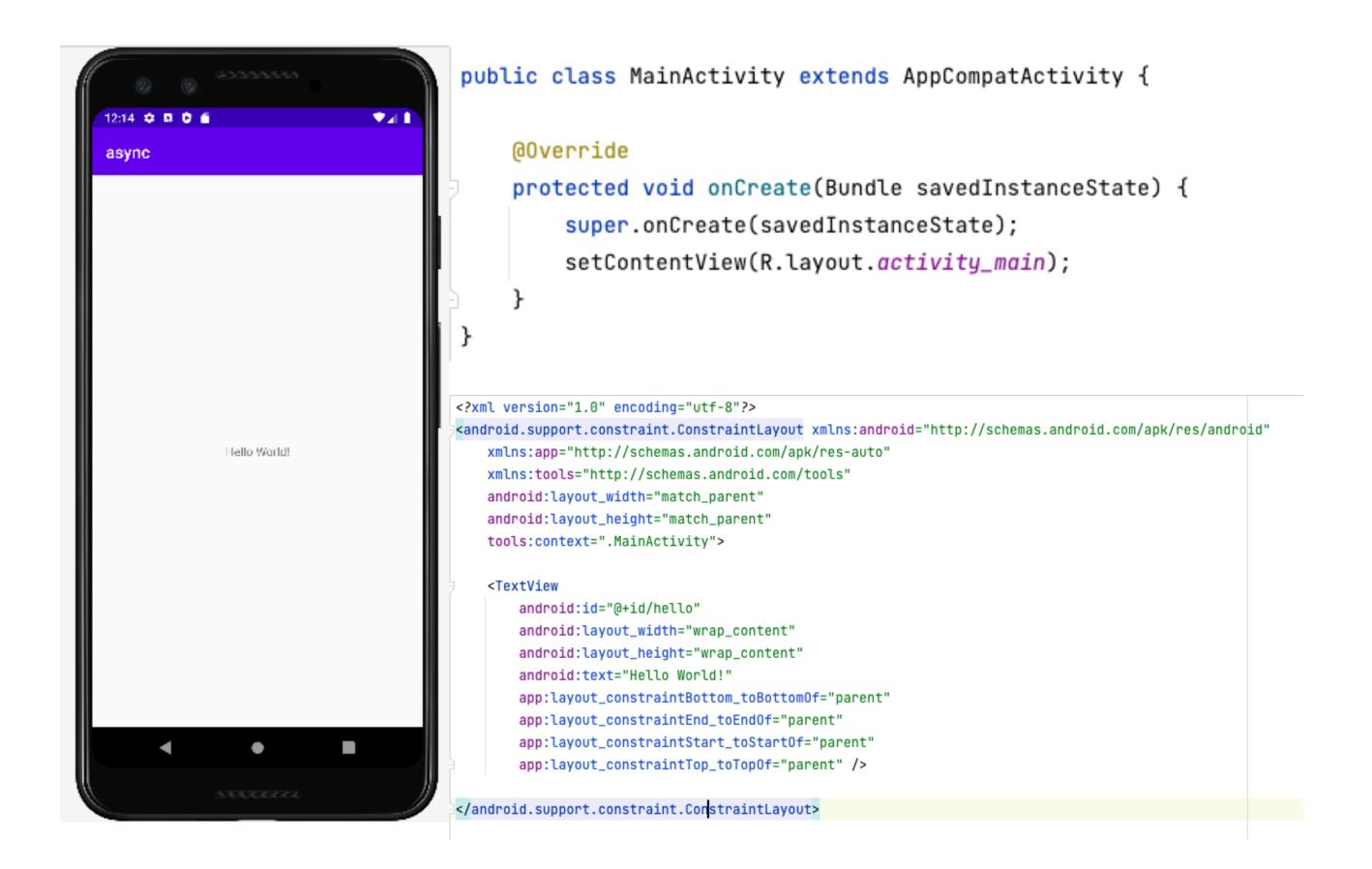
public class SimpleAsyncTask extends AsyncTask <Void, Void, String>{}

•

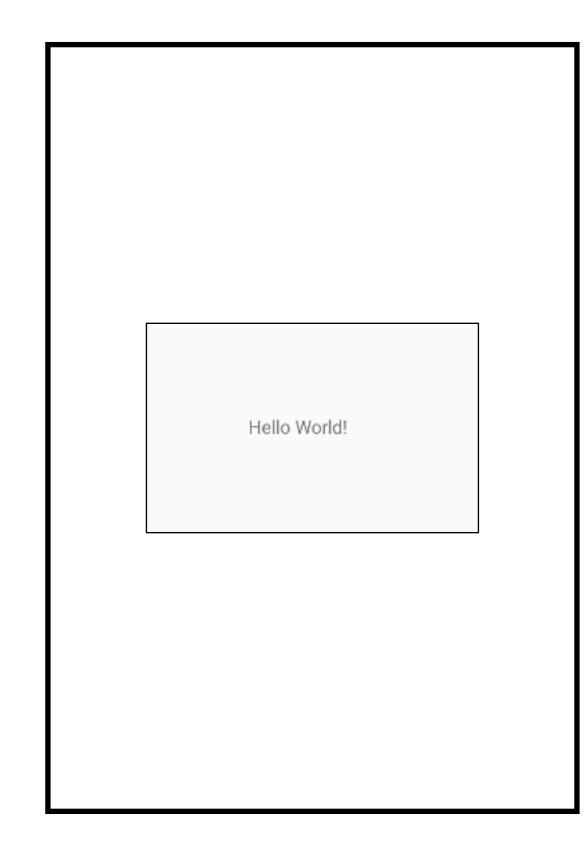


WeakReference

Element Subject to change



onPostExecute



Example BasicAsyncTask

Parsing data with split();

Object Models