

# An introduction to Android Development

Melson J Zacharias  
Perleybrook Labs LLC  
@mjzacharias

# OVERVIEW

- Java basics
- Evolution of android
- Development in android

JAVA?





**JAVA**



memegenerator.net

# HISTORY

- James Gosling 1995
- WORA
- Compiled & interpreted
- Slow

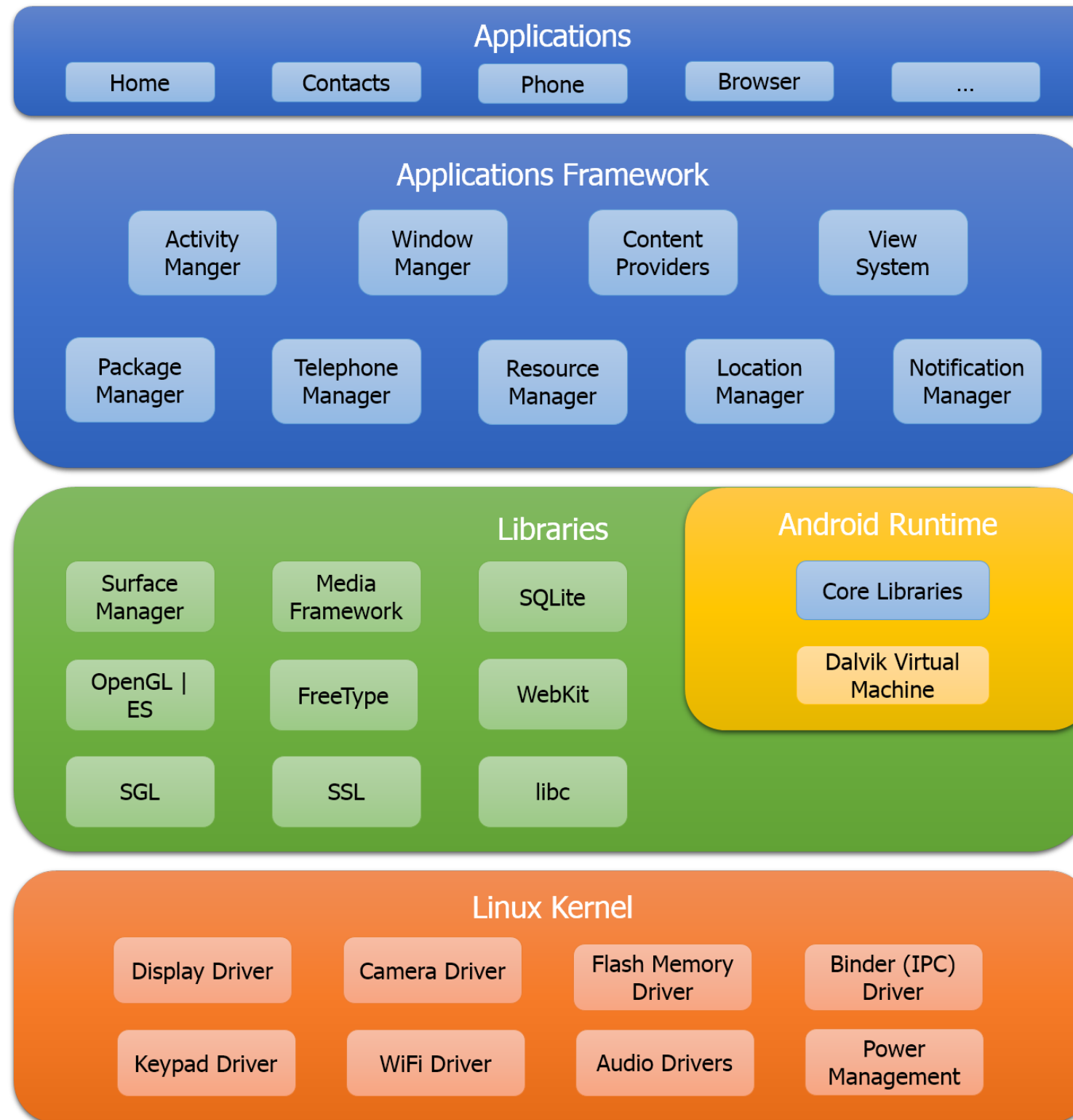
# ANDROID?

- Android Inc.
- Open Handset Alliance
- AOSP
- Google



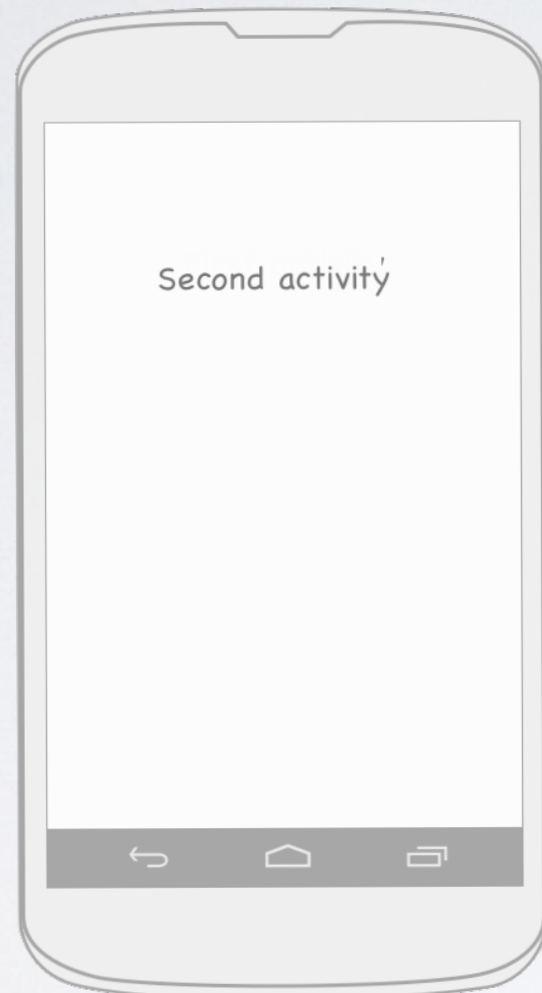
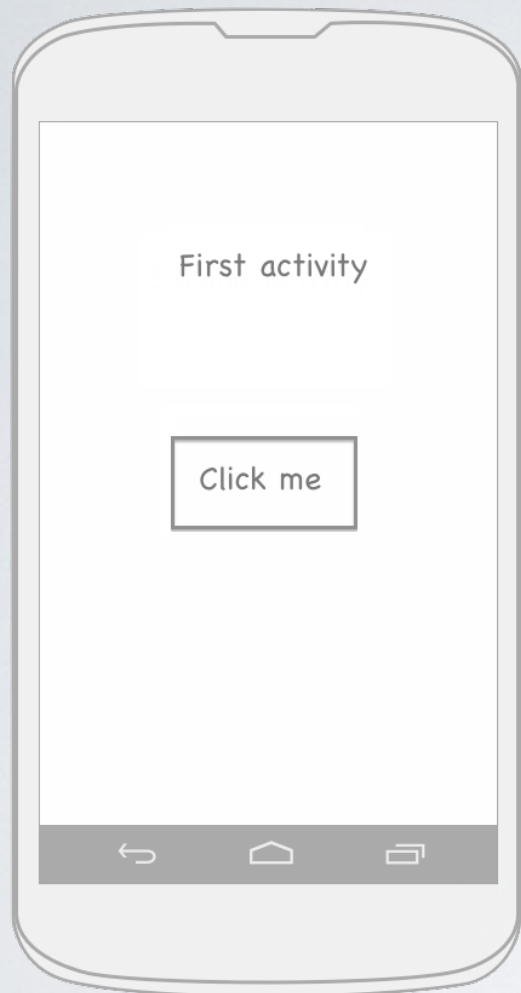
# ANDROID



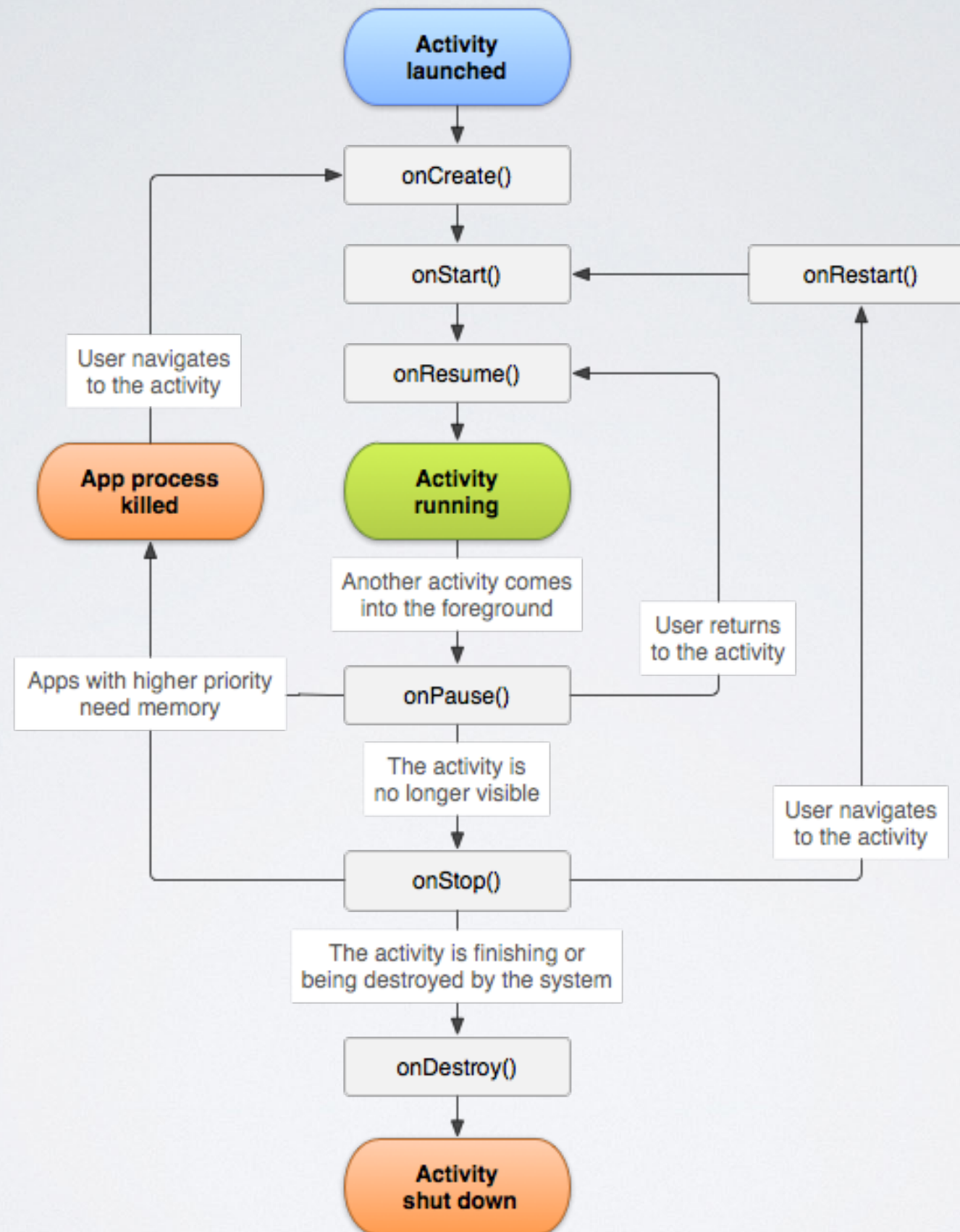




# Activities



```
public class MainActivity extends Activity {  
  
}
```



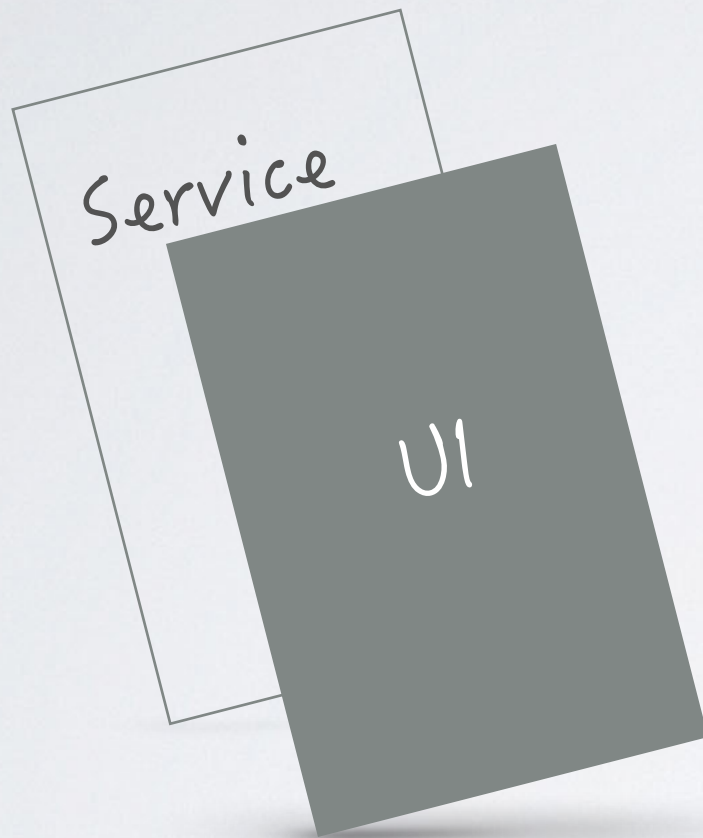
# LIST VIEW

- Messaging
- Contacts
- Email





# Services



```
public class MyService extends Service {  
}
```



# Broadcast receivers

```
public class MyReceiver extends BroadcastReceiver {  
    }  
}
```

# Content providers

```
public class MyContentProvider extends ContentProvider {  
    }  
}
```

# Additional components

- Fragments
- Views
- Layouts
- Intents
- Resources
- Manifest

# SAVING DATA?

- SharedPreferences
- SQLite



# DATA EXCHANGE?

- XML
- JSON

```
{  
  "Location"    : "Chengannur",  
  "Condition"   : "Haze",  
  "Temperature" : "28"  
}
```



# BACKGROUND OPERATIONS?

**AsyncTask** to the rescue!

- `onPreExecute`
- `doInBackground`
- `onPostExecute`

THANK YOU! :)

@mjzacharias | <http://thenullpointer.in> | <fb.com/mjzacharias>