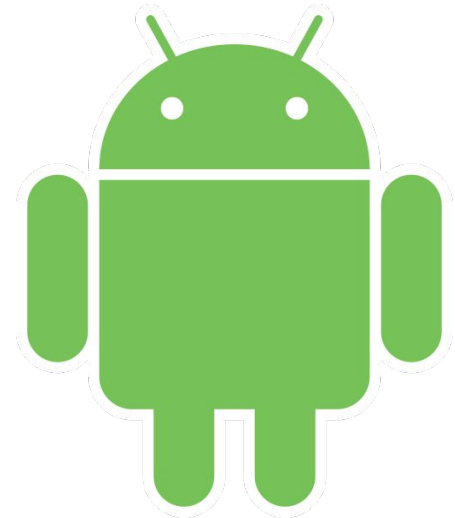


Fundamentos de Android



Android

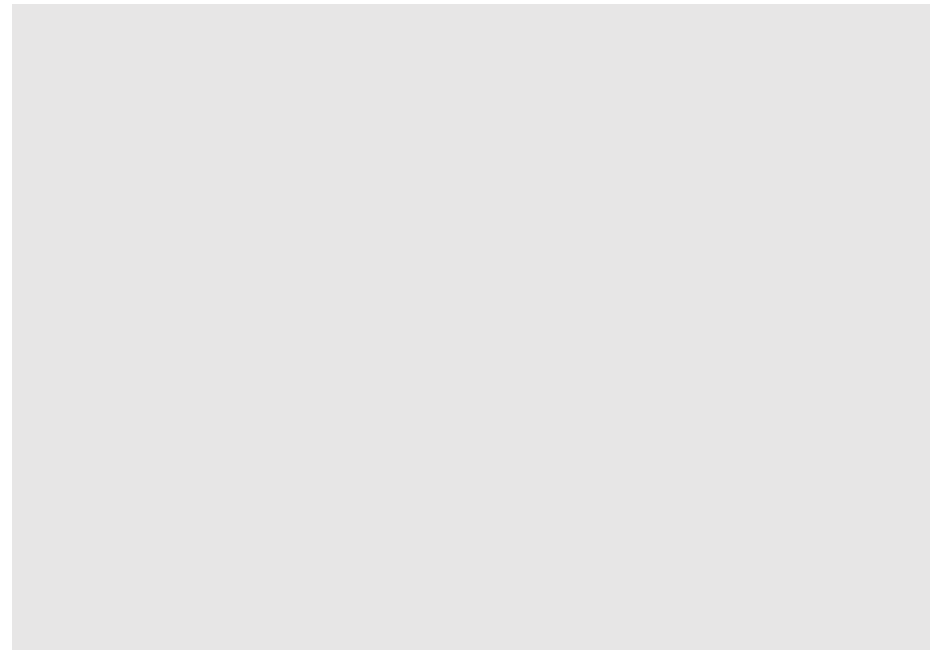
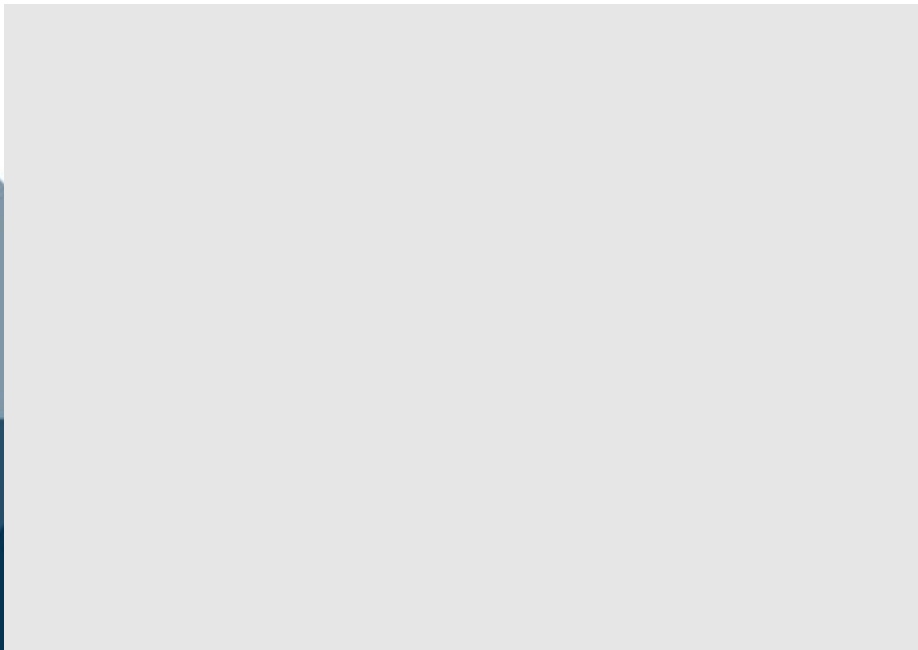
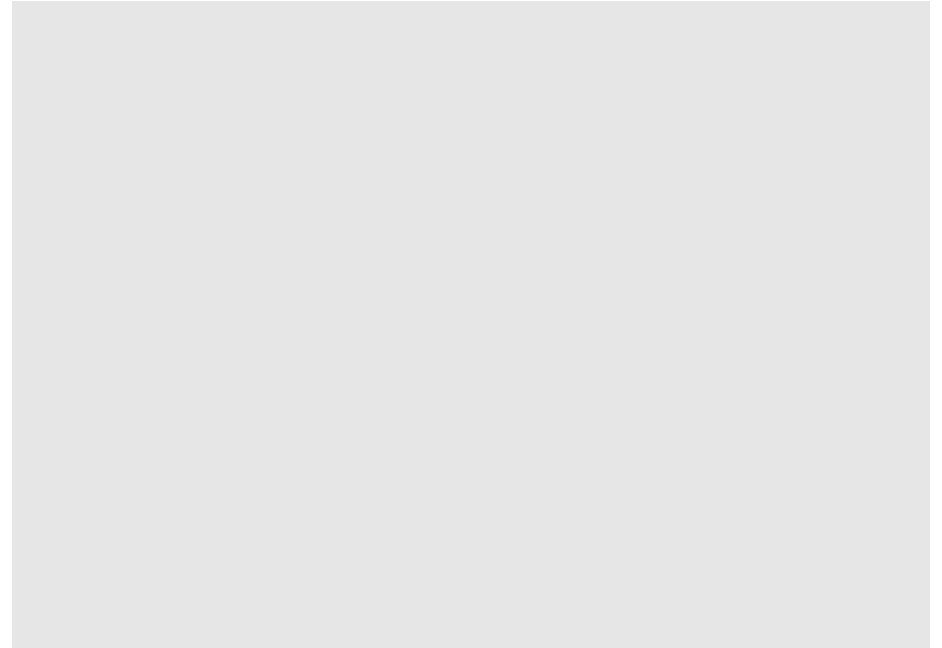
Sistema Operativo

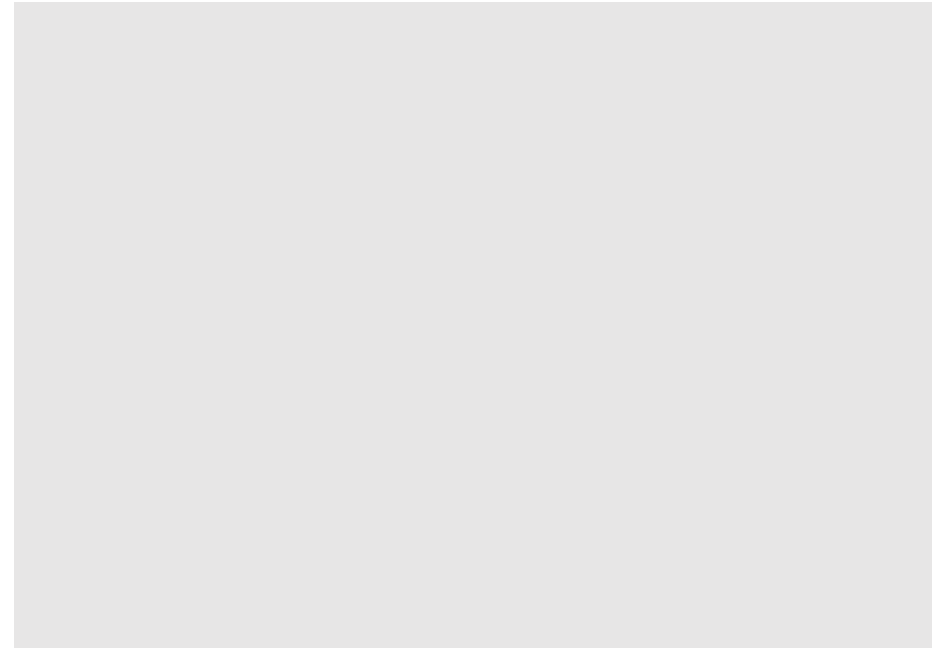
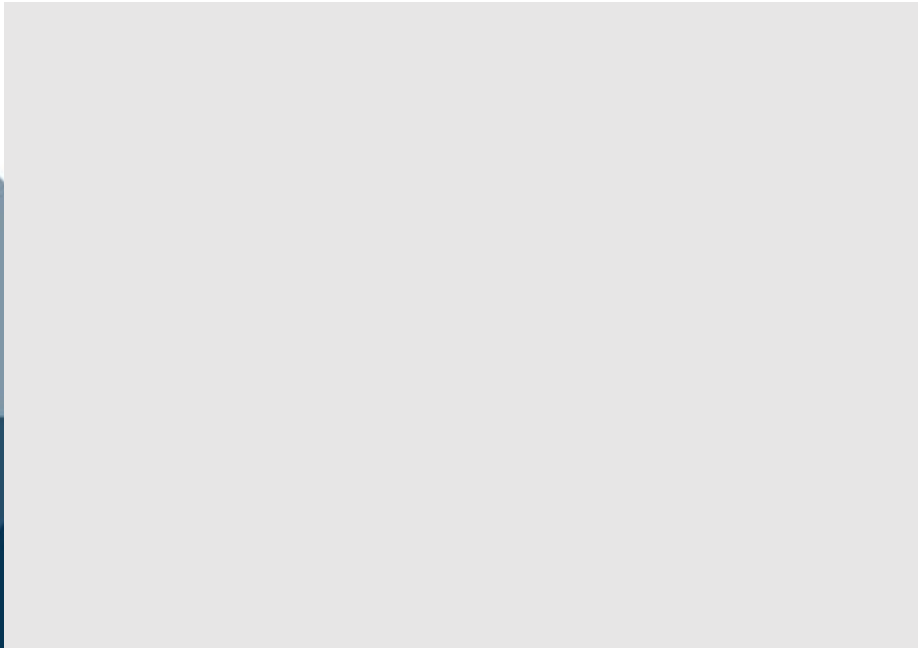
Google

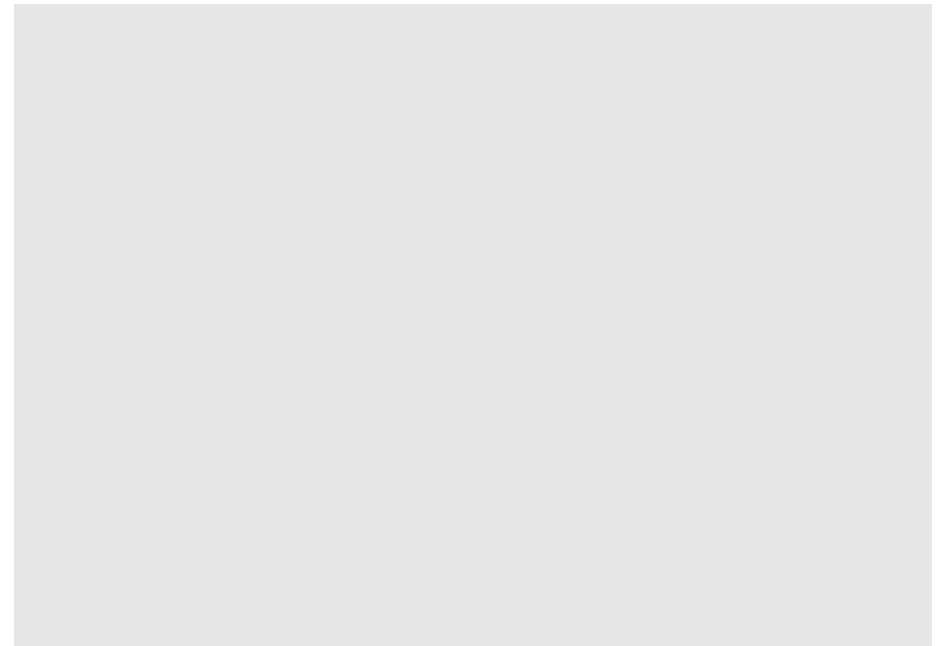
Dispositivos móviles

Kernel de Linux

Open Source.









android





Compatibilidad con el
dispositivo



Compatibilidad con la
aplicación



android

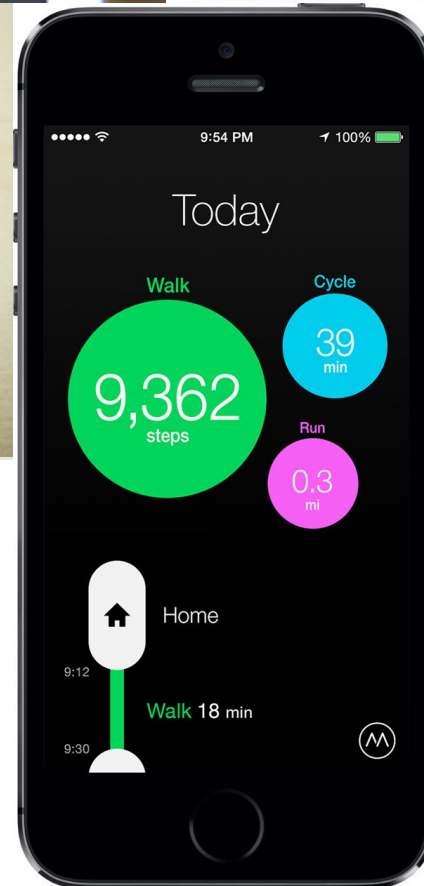
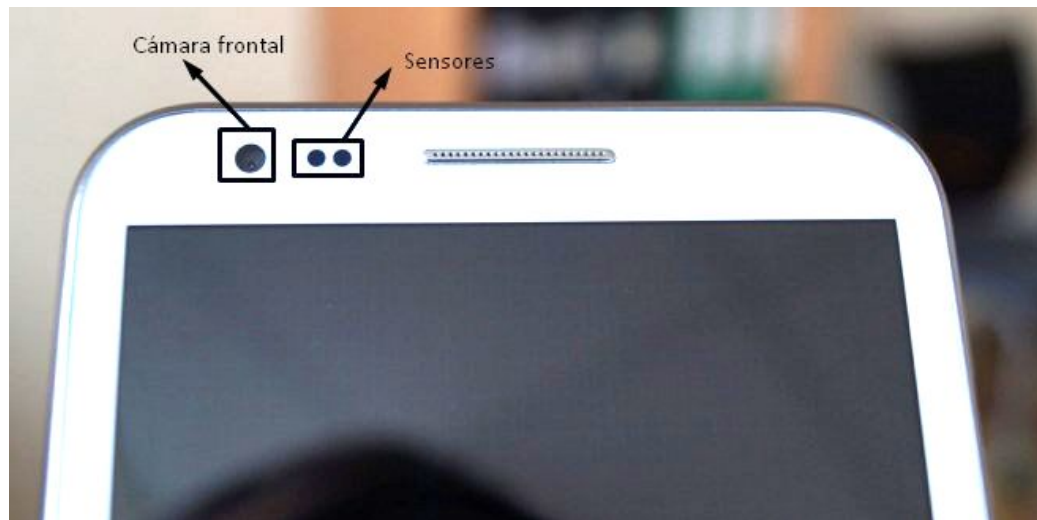


The slide features a white background with decorative blue geometric shapes in the corners. In the top right, there is a large dark blue semi-circle and a smaller light blue triangle. In the bottom left, there is a light blue triangle and a dark blue semi-circle.

Características de Hardware

Versión de Android

Configuración de Pantalla



FEATURE_CAMERA_FRONT

FEATURE_NFC

FEATURE_SENSOR_STEP_COUNTER

FEATURE_MICROPHONE

minSdkVersion

targetSdkVersion

minSdkVersion	15
targetSdkVersion	26

The slide features a white background with decorative blue geometric shapes in the corners. In the top-right corner, there is a large dark blue semi-circle and a smaller light blue triangle. In the bottom-left corner, there is a dark blue semi-circle and a light blue triangle.

Características de Hardware

Versión de Android

Configuración de Pantalla

Los servicios de Google Play le dan la libertad de utilizar las API más recientes para los servicios populares de Google sin preocuparse por el soporte del dispositivo. Las actualizaciones de los servicios de Google Play se distribuyen automáticamente por Google Play Store y las nuevas versiones de la biblioteca del cliente se entregan a través del Administrador de Android SDK. Esto le facilita concentrarse en lo que es importante: la experiencia de sus usuarios.

Broadcast



Broadcast

Transmisiones





Broadcast Receivers

Receptor de Transmisiones



Código
fuente



Manifest

Código
fuente



Android Device

The diagram illustrates the components of an Android Device. It is represented by a green rectangle with a folded top-right corner. Inside this rectangle is a dark blue circle. Within the circle is a light blue rounded square. The text 'Android Device' is at the top of the green rectangle, 'Manifest' is in the center of the dark blue circle, and 'Código fuente' is in the center of the light blue rounded square.

Manifest

Código
fuente



Bateria baja


Llamada entrante

Mensaje entrante

Wifi disponible

Carga conectada

```
public class AlarmReceiver extends BroadcastReceiver {  
  
    @Override  
    public void onReceive(Context context, Intent intent) {  
  
        Toast.makeText(context,  
            "AlarmReceiver.onReceive()",  
            Toast.LENGTH_LONG).show();  
    }  
}
```



```
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.androidalarm"
    android:versionCode="1"
    android:versionName="1.0" >

    <uses-sdk
        android:minSdkVersion="8"
        android:targetSdkVersion="22" />

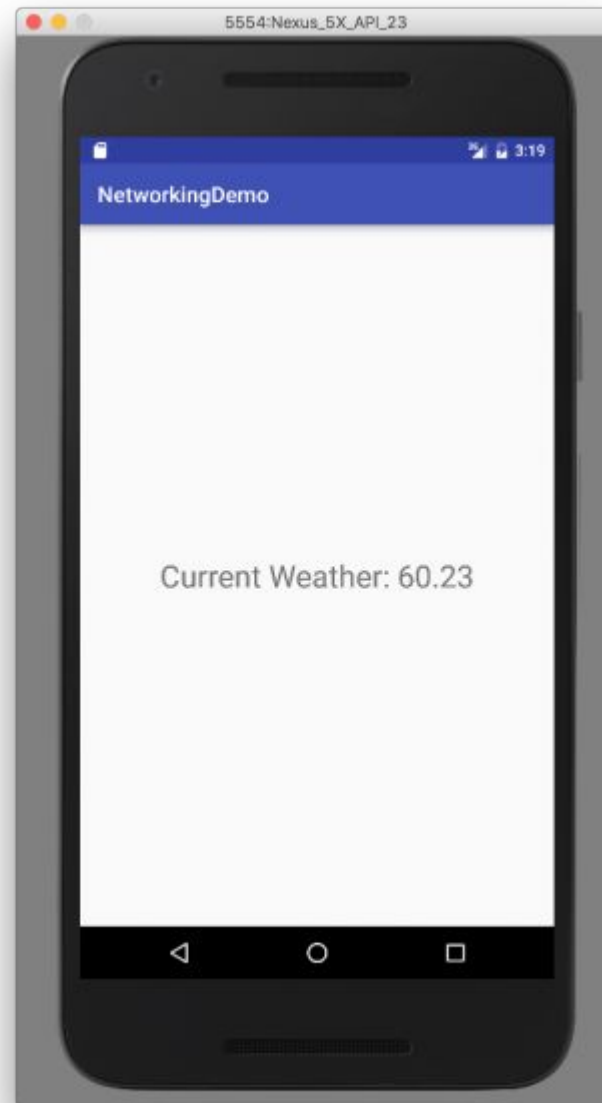
    <application
        android:allowBackup="true"
        android:icon="@drawable/ic_launcher"
        android:label="@string/app_name"
        android:theme="@style/AppTheme" >
        <activity
            android:name=".MainActivity"
            android:label="@string/app_name" >
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
        <receiver android:name=".AlarmReceiver" android:process=":remote" />
    </application>

</manifest>
```

Asynctask





Hilo Principal

onPreExecute()

onProgressUpdate()

onProgressUpdate()

onProgressUpdate()

onPostExecute()

Hilo en Segundo Plano

publishProgress()

publishProgress()

publishProgress()

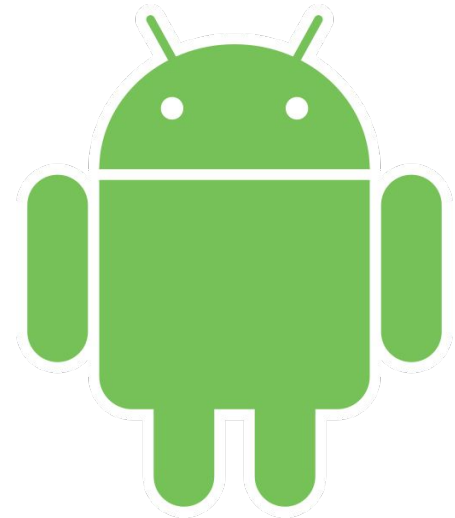
doInBackground()



```
private class DownloadFilesTask extends AsyncTask<URL, Integer, Long> {  
    protected Long doInBackground(URL... urls) {  
        int count = urls.length;  
        long totalSize = 0;  
        for (int i = 0; i < count; i++) {  
            totalSize += Downloader.downloadFile(urls[i]);  
            publishProgress((int) ((i / (float) count) * 100));  
            // Escape early if cancel() is called  
            if (isCancelled()) break;  
        }  
        return totalSize;  
    }  
  
    protected void onProgressUpdate(Integer... progress) {  
        setProgressPercent(progress[0]);  
    }  
  
    protected void onPostExecute(Long result) {  
        showDialog("Downloaded " + result + " bytes");  
    }  
}
```

```
new DownloadFilesTask().execute(url1, url2, url3);
```

Bases Técnicas de Android



Lenguajes para programar con Andorid



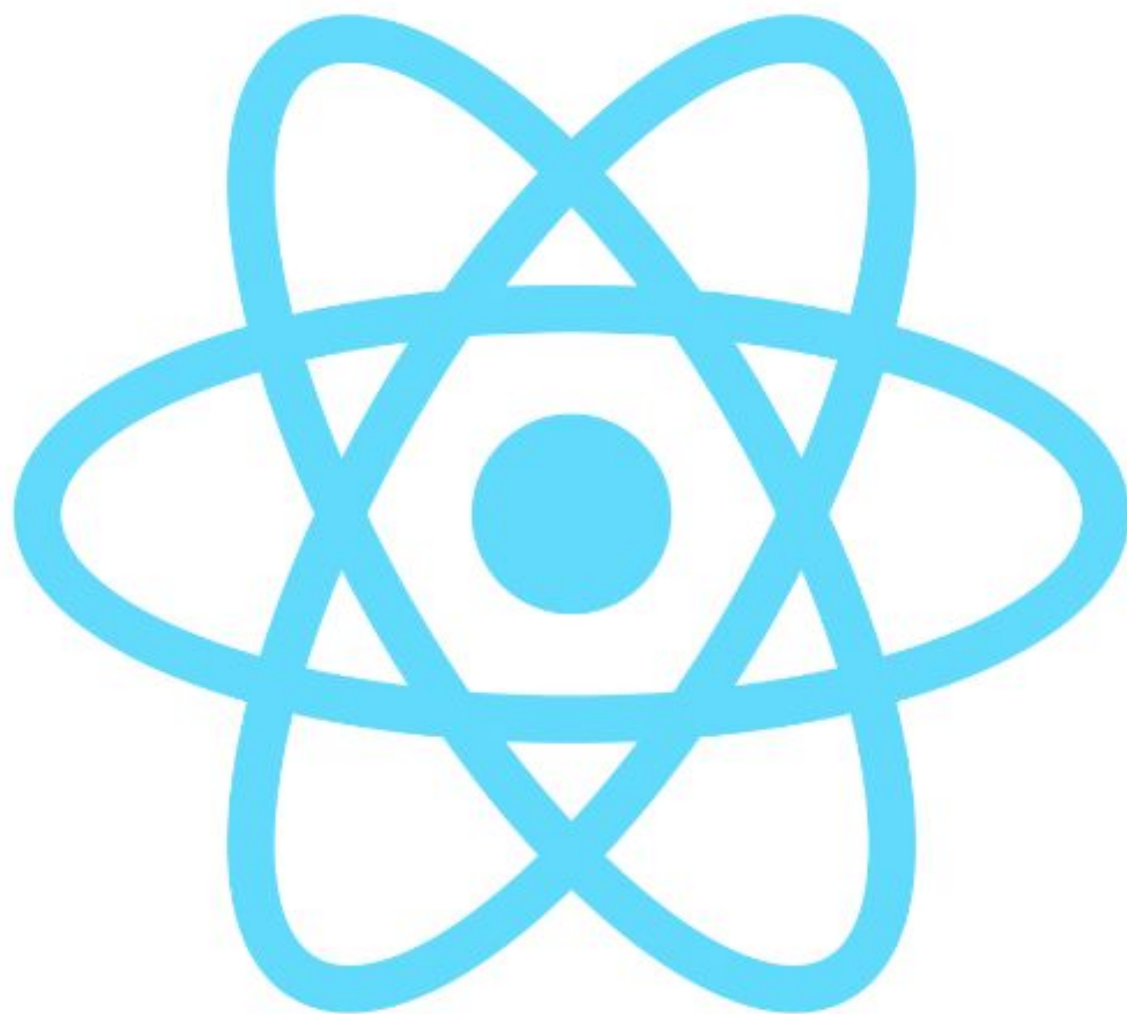


JavaTM





JS





ionic



C#



File



Clase File java/kotlin

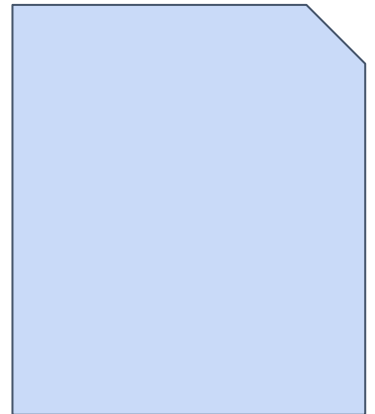
```
private File getTempFile(Context context, String url) {  
    File file;  
    try {  
        String fileName = Uri.parse(url).getLastPathSegment();  
        file = File.createTempFile(fileName, null, context.getCacheDir());  
    } catch (IOException e) {  
        // Error while creating file  
    }  
    return file;  
}
```

```
<manifest ...>  
    <uses-permission android:name="android.permission.WRITE_EXTERNAL_STORAGE" />  
    ...  
</manifest>
```

SharedPreferences



XML file



Android Device Monitor

Quick Access

DDMS



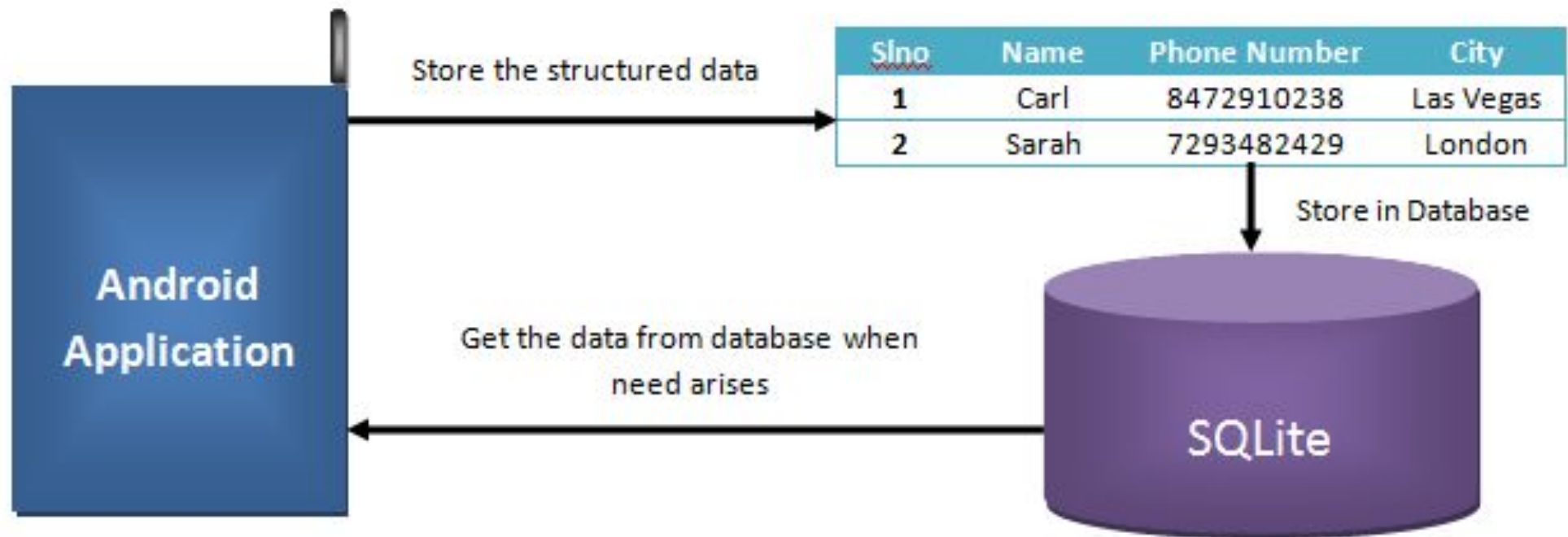
Threads Heap Allocation Tracker Network Statistics File Explorer Emulator Control System Information

Name	Size	Date	Time	Permissions	Info
▶ com.android.webview		2016-03-25	00:50	drwxr-x--x	
▶ com.android.widgetpreview		2016-03-20	17:03	drwxr-x--x	
▼ com.codevoila.androidtutorial		2016-03-24	21:12	drwxr-x--x	
▶ cache		2016-03-20	19:45	drwxrwx--x	
▶ code_cache		2016-03-20	19:45	drwxrwx--x	
▶ files		2016-03-20	20:33	drwxrwx--x	
▼ shared_prefs		2016-03-25	00:38	drwxrwx--x	
demo.xml	217	2016-03-25	00:38	-rw-rw----	
▶ com.example.android.apis		2016-03-20	17:03	drwxr-x--x	
▶ com.example.android.livecubes		2016-03-20	17:03	drwxr-x--x	

Bases de Datos



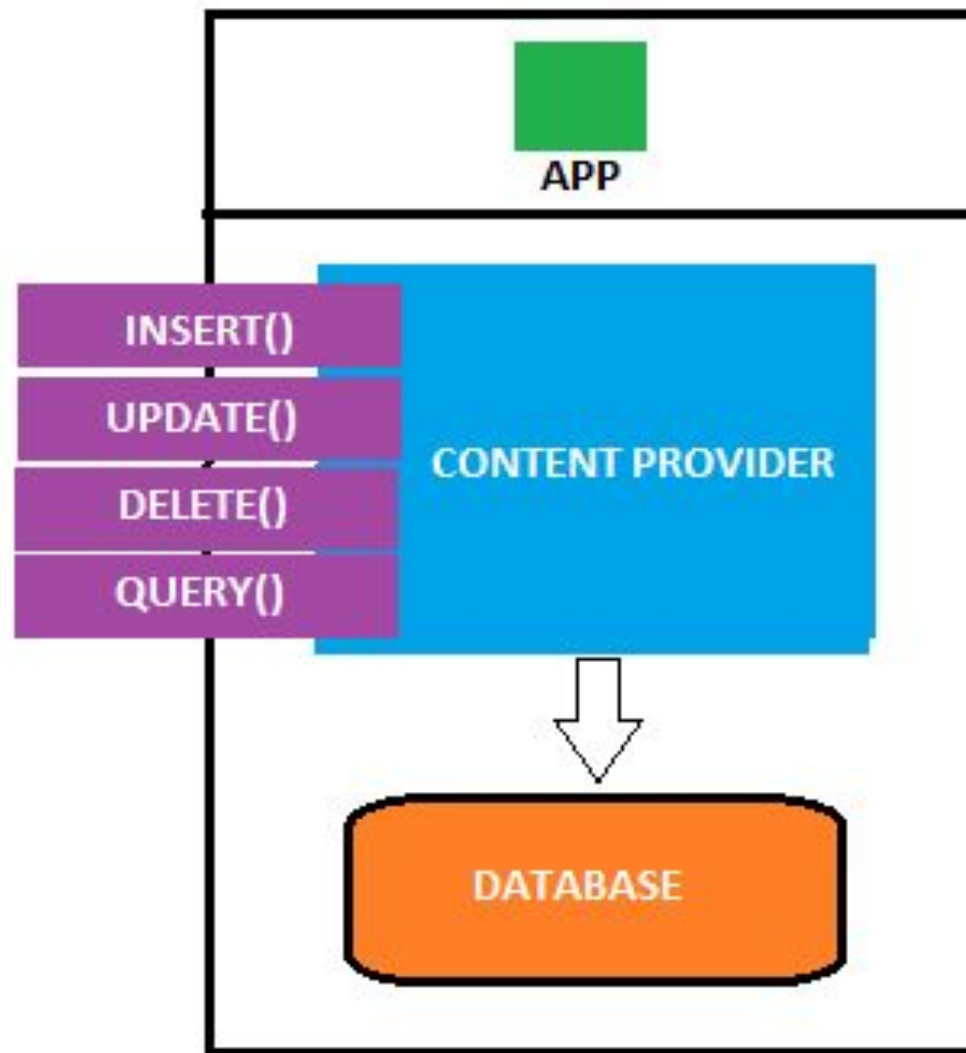




Content Providers



Content Provider



Network



