

新手必备的常用 Android 代码片段整理 (2)

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来源：赵凯强 (@裸奔的凯子哥)

链接：<http://blog.csdn.net/zhaokaiqiang1992/article/details/44724687>

本系列：

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以下内容来自多个开源项目的整理和自己的项目积累

1. 收集设备信息，用于信息统计分析

```
public static Properties collectDeviceInfo(Context context) {
    Properties mDeviceCrashInfo = new Properties();
    try {
        PackageManager pm = context.getPackageManager();
        PackageInfo pi = pm.getPackageInfo(context.getPackageName(),
            PackageManager.GET_ACTIVITIES);
        if (pi != null) {
            mDeviceCrashInfo.put(VERSION_NAME,
                pi.versionName == null ? "not set" : pi.versionName);
            mDeviceCrashInfo.put(VERSION_CODE, pi.versionCode);
        }
    } catch (PackageManager.NameNotFoundException e) {
        Log.e(TAG, "Error while collect package info", e);
    }
    Field[] fields = Build.class.getDeclaredFields();
    for (Field field : fields) {
        try {
            field.setAccessible(true);
            mDeviceCrashInfo.put(field.getName(), field.get(null));
        } catch (Exception e) {
            Log.e(TAG, "Error while collect crash info", e);
        }
    }
    return mDeviceCrashInfo;
}
```

```
public static String collectDeviceInfoStr(Context context) {
    Properties prop = collectDeviceInfo(context);
```

```

Set deviceInfos = prop.keySet();
StringBuilder deviceInfoStr = new StringBuilder("\n");
for (Iterator iter = deviceInfos.iterator(); iter.hasNext();) {
    Object item = iter.next();
    deviceInfoStr.append("\t\t\t" + item + ":" + prop.get(item)
        + ", \n");
}
deviceInfoStr.append("{}");
return deviceInfoStr.toString();
}

```

2.是否有SD卡

```

public static boolean haveSDCard() {
    return android.os.Environment.getExternalStorageState().equals(
        android.os.Environment.MEDIA_MOUNTED);
}

```

3.动态隐藏软键盘

```

@TargetApi(Build.VERSION_CODES.CUPCAKE)
public static void hideSoftInput(Activity activity) {
    View view = activity.getWindow().peekDecorView();
    if (view != null) {
        InputMethodManager inputmanger = (InputMethodManager) activity
            .getSystemService(Context.INPUT_METHOD_SERVICE);
        inputmanger.hideSoftInputFromWindow(view.getWindowToken(), 0);
    }
}

```

```

@TargetApi(Build.VERSION_CODES.CUPCAKE)
public static void hideSoftInput(Context context, EditText edit) {
    edit.clearFocus();
    InputMethodManager inputmanger = (InputMethodManager) context
        .getSystemService(Context.INPUT_METHOD_SERVICE);
    inputmanger.hideSoftInputFromWindow(edit.getWindowToken(), 0);
}

```

4.动态显示软键盘

```

@TargetApi(Build.VERSION_CODES.CUPCAKE)
public static void showSoftInput(Context context, EditText edit) {
    edit.setFocusable(true);
    edit.setFocusableInTouchMode(true);
    edit.requestFocus();
}

```

```

        InputMethodManager inputManager = (InputMethodManager) context
            .getSystemService(Context.INPUT_METHOD_SERVICE);
        inputManager.showSoftInput(edit, 0);
    }

```

5.动态显示或者是隐藏软键盘

```

@TargetApi(Build.VERSION_CODES.CUPCAKE)
public static void toggleSoftInput(Context context, EditText edit) {
    edit.setFocusable(true);
    edit.setFocusableInTouchMode(true);
    edit.requestFocus();
    InputMethodManager inputManager = (InputMethodManager) context
        .getSystemService(Context.INPUT_METHOD_SERVICE);
    inputManager.toggleSoftInput(InputMethodManager.SHOW_FORCED, 0);
}

```

6.主动回到Home，后台运行

```

public static void goHome(Context context) {
    Intent mHomeIntent = new Intent(Intent.ACTION_MAIN);
    mHomeIntent.addCategory(Intent.CATEGORY_HOME);
    mHomeIntent.addFlags(Intent.FLAG_ACTIVITY_NEW_TASK
        | Intent.FLAG_ACTIVITY_RESET_TASK_IF_NEEDED);
    context.startActivity(mHomeIntent);
}

```

7.获取状态栏高度

注意，要在onWindowFocusChanged中调用，在onCreate中获取高度为0

```

@TargetApi(Build.VERSION_CODES.CUPCAKE)
public static int getStatusBarHeight(Activity activity) {
    Rect frame = new Rect();
    activity.getWindow().getDecorView().getWindowVisibleDisplayFrame(frame);
    return frame.top;
}

```

8.获取状态栏高度 + 标题栏(ActionBar)高度

(注意，如果没有ActionBar，那么获取的高度将和上面的是一样的，只有状态栏的高度)

```

public static int getTopBarHeight(Activity activity) {

```

```
        return activity.getWindow().findViewById(Window.ID_ANDROID_CONTENT)
            .getTop();
    }
}
```

9.获取MCC+MNC代码 (SIM卡运营商国家代码和运营商网络代码)

仅当用户已在网络注册时有效, CDMA 可能会无效 (中国移动: 46000 46002, 中国联通: 46001, 中国电信: 46003)

```
public static String getNetworkOperator(Context context) {
    TelephonyManager telephonyManager = (TelephonyManager) context
        .getSystemService(Context.TELEPHONY_SERVICE);
    return telephonyManager.getNetworkOperator();
}
```

10.返回移动网络运营商的名字

(例: 中国联通、中国移动、中国电信) 仅当用户已在网络注册时有效, CDMA 可能会无效)

```
public static String getNetworkOperatorName(Context context) {
    TelephonyManager telephonyManager = (TelephonyManager) context
        .getSystemService(Context.TELEPHONY_SERVICE);
    return telephonyManager.getNetworkOperatorName();
}
```

11.返回移动终端类型

PHONE_TYPE_NONE :0 手机制式未知

PHONE_TYPE_GSM :1 手机制式为GSM, 移动和联通

PHONE_TYPE_CDMA :2 手机制式为CDMA, 电信

PHONE_TYPE_SIP:3

```
public static int getPhoneType(Context context) {
    TelephonyManager telephonyManager = (TelephonyManager) context
        .getSystemService(Context.TELEPHONY_SERVICE);
    return telephonyManager.getPhoneType();
}
```

12.判断手机连接的网络类型(2G,3G,4G)

联通的3G为UMTS或HSDPA，移动和联通的2G为GPRS或EGDE，电信的2G为CDMA，电信的3G为EVDO

```
public class Constants {
    /**
     * Unknown network class
     */
    public static final int NETWORK_CLASS_UNKNOWN = 0;

    /**
     * wifi net work
     */
    public static final int NETWORK_WIFI = 1;

    /**
     * "2G" networks
     */
    public static final int NETWORK_CLASS_2_G = 2;

    /**
     * "3G" networks
     */
    public static final int NETWORK_CLASS_3_G = 3;

    /**
     * "4G" networks
     */
    public static final int NETWORK_CLASS_4_G = 4;
}

public static int getNetWorkClass(Context context) {
    TelephonyManager telephonyManager = (TelephonyManager) context
        .getSystemService(Context.TELEPHONY_SERVICE);

    switch (telephonyManager.getNetworkType()) {
        case TelephonyManager.NETWORK_TYPE_GPRS:
        case TelephonyManager.NETWORK_TYPE_EDGE:
        case TelephonyManager.NETWORK_TYPE_CDMA:
        case TelephonyManager.NETWORK_TYPE_1xRTT:
        case TelephonyManager.NETWORK_TYPE_IDEN:
            return Constants.NETWORK_CLASS_2_G;

        case TelephonyManager.NETWORK_TYPE_UMTS:
        case TelephonyManager.NETWORK_TYPE_EVDO_0:
```

```

    case TelephonyManager.NETWORK_TYPE_EVDO_A:
    case TelephonyManager.NETWORK_TYPE_HSDPA:
    case TelephonyManager.NETWORK_TYPE_HSUPA:
    case TelephonyManager.NETWORK_TYPE_HSPA:
    case TelephonyManager.NETWORK_TYPE_EVDO_B:
    case TelephonyManager.NETWORK_TYPE_EHRPD:
    case TelephonyManager.NETWORK_TYPE_HSPAP:
        return Constants.NETWORK_CLASS_3_G;

    case TelephonyManager.NETWORK_TYPE_LTE:
        return Constants.NETWORK_CLASS_4_G;

    default:
        return Constants.NETWORK_CLASS_UNKNOWN;
    }
}

```

13.判断当前手机的网络类型(WIFI还是2,3,4G)

需要用到上面的方法

```

public static int getNetWorkStatus(Context context) {
    int netWorkType = Constants.NETWORK_CLASS_UNKNOWN;

    ConnectivityManager connectivityManager = (ConnectivityManager) context
        .getSystemService(Context.CONNECTIVITY_SERVICE);
    NetworkInfo networkInfo = connectivityManager.getActiveNetworkInfo();

    if (networkInfo != null && networkInfo.isConnected()) {
        int type = networkInfo.getType();

        if (type == ConnectivityManager.TYPE_WIFI) {
            netWorkType = Constants.NETWORK_WIFI;
        } else if (type == ConnectivityManager.TYPE_MOBILE) {
            netWorkType = getNetWorkClass(context);
        }
    }

    return netWorkType;
}

```

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