

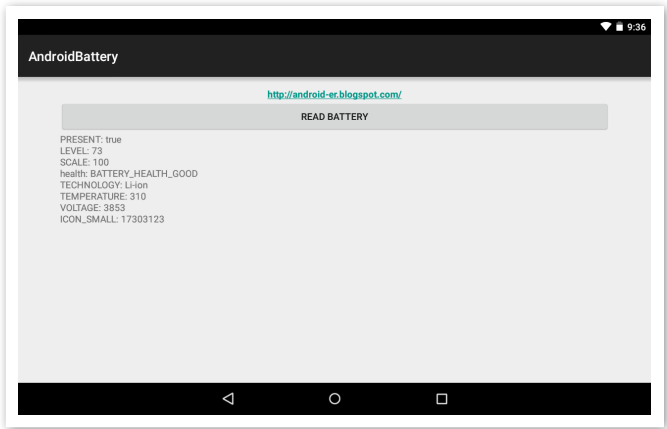
# Android-er

For Android development, from beginner to beginner.

Monday, April 6, 2015

## Get battery information using BatteryManager

The previous show how to [Read battery status and level](#). Actually we can get more information of the battery by using BatteryManager, such as health, technology, temperature, voltage...



```
package com.example.androidbattery;

import android.support.v7.app.ActionBarActivity;
import android.view.View;
import android.view.View.OnClickListener;
import android.widget.Button;
import android.widget.ImageView;
import android.widget.TextView;
import android.content.Intent;
import android.content.IntentFilter;
import android.os.BatteryManager;
import android.os.Bundle;

public class MainActivity extends ActionBarActivity {

    Button btnReadBattery;
    ImageView imageIcon;
    TextView textBatteryStatus;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        btnReadBattery = (Button)findViewById(R.id.readbattery);
        imageIcon = (ImageView)findViewById(R.id.icon);
        textBatteryStatus = (TextView)findViewById(R.id.batterystatus);

        btnReadBattery.setOnClickListener(new OnClickListener(){

            @Override
            public void onClick(View v) {
                textBatteryStatus.setText(readBattery());
            }

        });






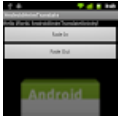


        private String readBattery(){
            StringBuilder sb = new StringBuilder();
            IntentFilter batteryIntentFilter = new IntentFilter(Intent.ACTION_BATTERY_CHANGED);
            Intent batteryIntent = registerReceiver(null, batteryIntentFilter);

            boolean present= batteryIntent.getExtras().getBoolean(BatteryManager.EXTRA_PRESENT);
            sb.append("PRESENT: " + present + "\n");

            int status = batteryIntent.getIntExtra(BatteryManager.EXTRA_STATUS, -1);
            if(status == BatteryManager.BATTERY_STATUS_CHARGING){
                sb.append("BATTERY_STATUS_CHARGING\n");
            }
            if(status == BatteryManager.BATTERY_STATUS_FULL){
                sb.append("BATTERY_STATUS_FULL\n");
            }

            int plugged = batteryIntent.getIntExtra(BatteryManager.EXTRA_PLUGGED, -1);
            if(plugged == BatteryManager.BATTERY_PLUGGED_USB){
                sb.append("BATTERY_PLUGGED_USB\n");
            }
        }
    }
}
```

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```
}

if(plugged == BatteryManager.BATTERY_PLUGGED_AC){
    sb.append("BATTERY_PLUGGED_AC\n");
}

int level = batteryIntent.getIntExtra(BatteryManager.EXTRA_LEVEL, -1);
sb.append("LEVEL: " + level + "\n");

int scale = batteryIntent.getIntExtra(BatteryManager.EXTRA_SCALE, -1);
sb.append("SCALE: " + scale + "\n");

int health = batteryIntent.getIntExtra(BatteryManager.EXTRA_HEALTH,0);
sb.append("health: " + convHealth(health) + "\n");

String technology = batteryIntent.getExtras().getString(BatteryManager.EXTRA_TECHNOLOGY);
sb.append("TECHNOLOGY: " + technology + "\n");

int temperature = batteryIntent.getIntExtra(BatteryManager.EXTRA_TEMPERATURE,0);
sb.append("TEMPERATURE: " + temperature + "\n");

int voltage = batteryIntent.getIntExtra(BatteryManager.EXTRA_VOLTAGE,0);
sb.append("VOLTAGE: " + voltage + "\n");

//I have no idea how to load the small icon from system resources!
int icon_small_resourceId = batteryIntent.getIntExtra(BatteryManager.EXTRA_ICON_SMALL,0);
sb.append("ICON_SMALL: " + icon_small_resourceId + "\n");

return sb.toString();
}

private String convHealth(int health){
    String result;
    switch(health){
    case BatteryManager.BATTERY_HEALTH_COLD:
        result = "BATTERY_HEALTH_COLD";
        break;
    case BatteryManager.BATTERY_HEALTH_DEAD:
        result = "BATTERY_HEALTH_DEAD";
        break;
    case BatteryManager.BATTERY_HEALTH_GOOD:
        result = "BATTERY_HEALTH_GOOD";
        break;
    case BatteryManager.BATTERY_HEALTH_OVERHEAT:
        result = "BATTERY_HEALTH_OVERHEAT";
        break;
    case BatteryManager.BATTERY_HEALTH_OVER_VOLTAGE:
        result = "BATTERY_HEALTH_OVER_VOLTAGE";
        break;
    case BatteryManager.BATTERY_HEALTH_UNKNOWN:
        result = "BATTERY_HEALTH_UNKNOWN";
        break;
    case BatteryManager.BATTERY_HEALTH_UNSPECIFIED_FAILURE:
        result = "BATTERY_HEALTH_UNSPECIFIED_FAILURE";
        break;
    default:
        result = "unknown";
    }

    return result;
}
}
```

Keep using the layout in the post "[Read battery status and level](#)".

Next:  
- [Implement BroadcastReceiver to monitor change of Charging State and Battery Level](#)

by : [Andr.oid Eric](#)  
label: [Android code sample: battery](#)

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