Android Start Up
Mobile Internet Lab1

April 19, 2020

Abstract

Learning basic knowledge of Java and Android programming. Realize Hello World and drawLine Program with my own design.

Key Words: Android Programming, Java, DrawLine

1 Environment

I use Android Studio 3.6.2 with Oracle Java 1.8.0.

2 Project: Hello World

Hello World is my first java program. I realize it and change its binding string.
To achieve the binding operation, I do with the following steps:

* Fine the TextView by id.

```
1  TextView txtResult = (TextView) findViewById(R.id.txtResult);
```

* And then give the TextView value.

```
1  txtResult.setText(String.valueOf(text));
```

Demo
By moving these three TextView to different position, I have the folloing screenshooting.
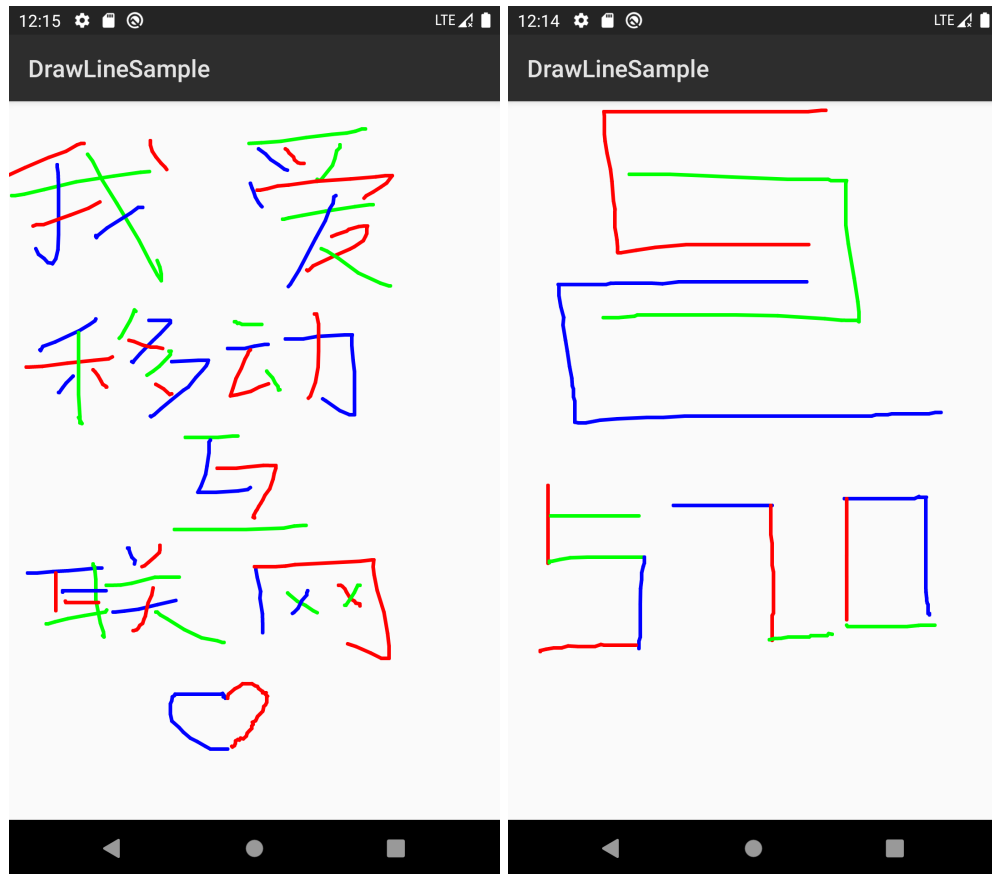
Hello World!

Hello Java's World!

Hello Hanwen's World!

3   Project: DrawLine

This project realize a drawline application using finger touch. From Computer simulator, it follows the action detected from the mouse.

What creativity I add in this program is automatically changing color, as the following two demos.

I add switch method in Java in the ACTION_UP function to realize changing the color.

```java
switch (time) {
case 0:
p.setColor(Color.GREEN);
break;
case 1:
p.setColor(Color.BLUE);
break;
case 2:
p.setColor(Color.RED);
break;
```

```
11  }
12  time = (time + 1) % 3;
```

In this process, I find some similarity between Java and C++.

And I also think, my program will be more interesting with random color choosing. While the code is easy to write and understand, I will not show it in the report.

4   Conclusion

The first Java lab introduces me into the Android World, I think it is very interesting to program with Java. I also update all my code and demo to my Github: https://github.com/david990917/My-Computer-Science-Learning/tree/master/Courses/Mobile-Internet/Lab1