

Agile Java

阿左¹ Nobody²

August 1, 2012

¹感谢读者
²感谢国家

Contents

I 基本概念	4
1 开发环境	5
1.1 JUnit4	5

List of Figures

List of Tables

Part I

基本概念

Chapter 1

开发环境

1.1 JUnit4

基本的 JUnit4 单元测试例子：

```
1
2 public class HelloTest
3 {
4     /**
5      * class setup must be static
6      */
7     @org.junit.BeforeClass
8     public static void runBeforeClass() {
9         System.out.println("class setUp... ");
10    }
11
12    /**
13     * class tearDown must be static
14     */
15    @org.junit.AfterClass
```

```
16 public static void runAfterClass() {
17     System.out.println("class tearDown... ");
18 }
19
20 @org.junit.Before
21 public void setUp() {
22     System.out.println("func setUp... ");
23 }
24
25 @org.junit.After
26 public void tearDown() {
27     System.out.println("func tearDown... ");
28 }
29
30 @org.junit.Test
31 public void func01() {
32     System.out.println("func01... ");
33     org.junit.Assert.assertTrue("hello".equals("hello"));
34 }
35
36 /**
37  * now can except for exception
38  */
39 @org.junit.Test(expected=ArithmeticException.class)
40 public void func02() {
41     System.out.println("func02... ");
42     System.out.println("result is: " + (2/0));
43 }
44
45 /**
46  * this function will not run
47  * we want ignore this function
48  */
49 @org.junit.Ignore
```

```
50 public void func03() {
51     System.out.println("func03... ");
52 }
53
54 /**
55  * test time out
56  */
57 @org.junit.Test(timeout=500)
58 public void func04() {
59     System.out.println("func04... ");
60     try {
61         Thread.sleep(300);
62     } catch (InterruptedException ex) {
63         // do nothing
64     }
65 }
66
67 /**
68  * make junit4 programe also can be used in
69  * junit3 environment
70  */
71 public static junit.framework.Test suite() {
72     return new junit.framework.JUnit4TestAdapter(HelloTest.class);
73 }
74 }
```

编译与运行:

```
1 #!/bin/bash
2
3 # compile
4 javac -classpath /opt/morganstudio/lib-java/junit4.8.2/junit-4.8.2.jar
   HelloTest.java
5
```



```
6 # run junit test
7 java -classpath ./opt/morganstudio/lib-java/junit4.8.2/junit-4.8.2.jar
    org.junit.runner.JUnitCore HelloTest
```