## **JUnit Guide**

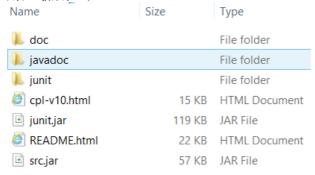
版本作者 时间 描述 v1.0 Paolo 2014-03-01 Initial version

### 下载JUnit

#下载JUnit包,如junit3.8.1

http://nchc.dl.sourceforge.net/project/junit/junit/3.8.1/junit3.8.1.zip

解压缩后如下:

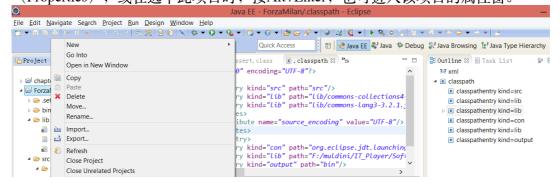


JUnit4.10.jar下载路径为: http://sourceforge.net/projects/junit/

# 将JUnit配置入eclipse

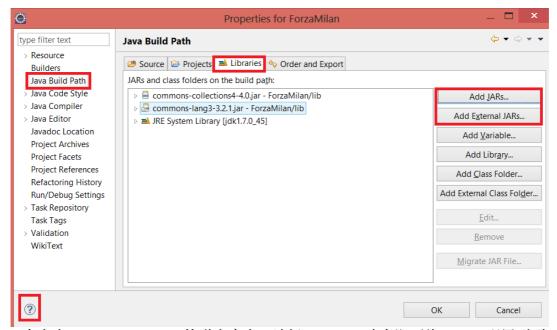
#### @ 导入JUnit

#运行eclipse java SE或EE版,选择workspace后即可进入eclipse工作界面 #鼠标移到某个项目(project)上点右键,在弹出菜单中选择该项目的属性 (Properties),或在选中此项目时,按Alt+Enter,也可进入该项目的属性窗。

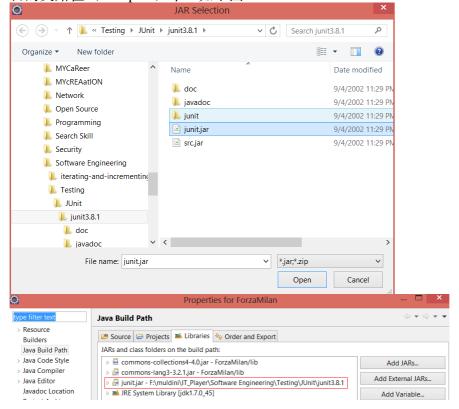


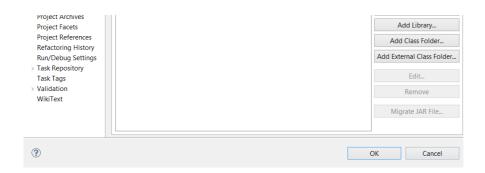


# 在弹出的属性面板内,选择左列的Java Build Path,再选Libraries,若JUnit包所在路径是当前workspace,则可点击Add JARs,否则点击Add External JARs,<欲知 Java Build Path的使用说明详情,可点击面板左下角的问号,在弹出窗口中搜索"Java Build Path">。



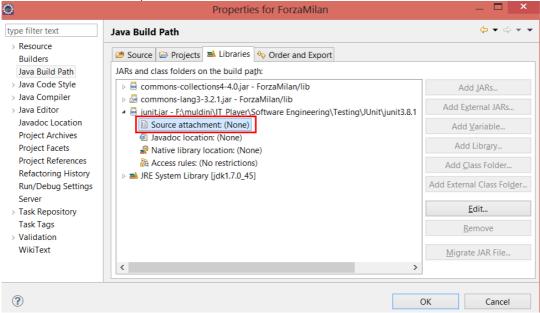
# 在点击Add External JARs的弹出窗中,选择junit.jar,确定即可将junit.jar配置到项目的类路径(classpath)中。如下图:



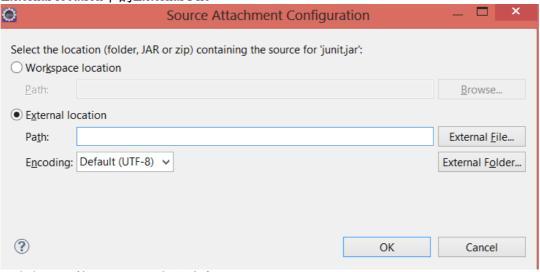


## @ 配置JUnit源码 (可选)

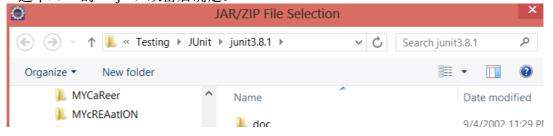
# 展开Java Build Path \Libraries下的JUnit, 双击Source attachment

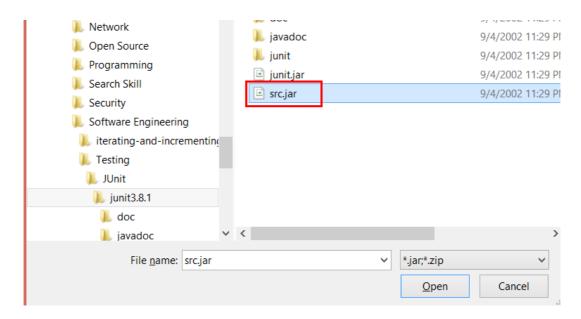


#若JUnit包所在路径是当前workspace,则可点击Workspace location,否则点击External location下的External File

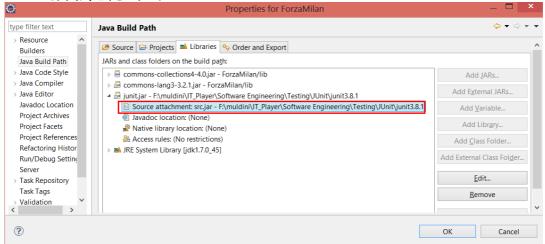


#选中JUnit的src.jar,双击后确定。



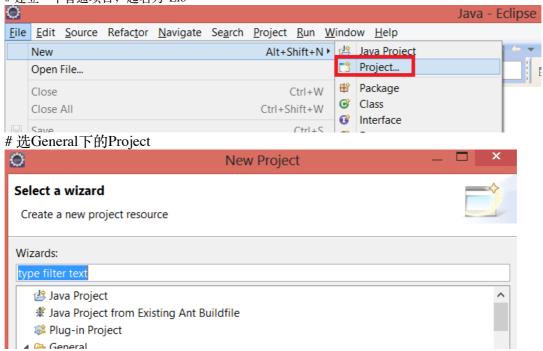


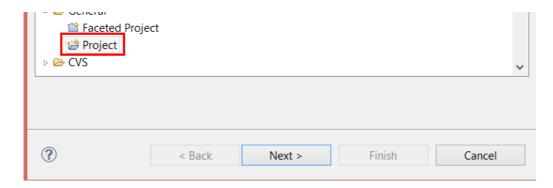
#JUnit源代码已配置如下



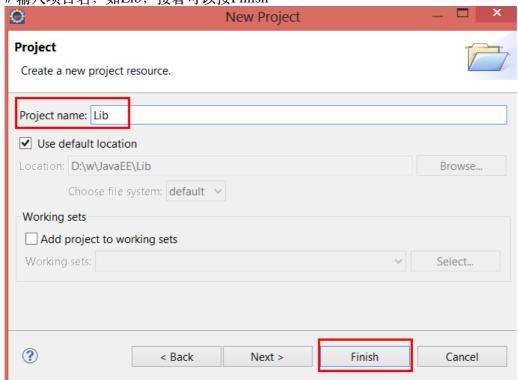
# @ 另一种导入JUnit并配置其源码的方法(即从workspace中导入和配置)

#建立一个普通项目,起名为"Lib"

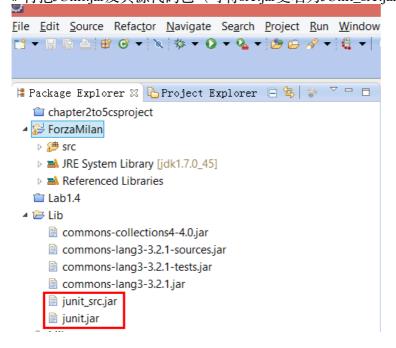




#输入项目名,如Lib,接着可以按Finish

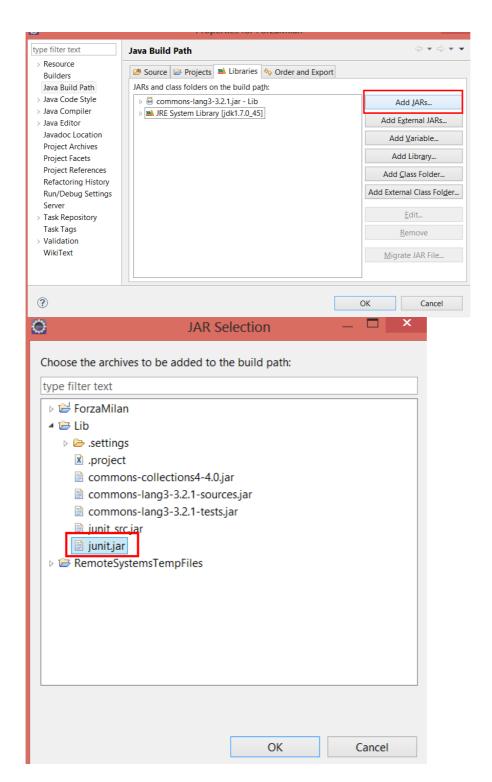


#再把JUnit.jar及其源代码包(可将src.jar更名为JUnit\_src.jar)拷贝到Lib,如下:

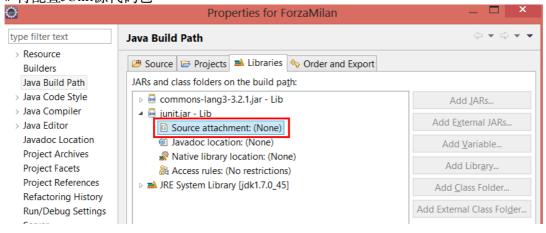


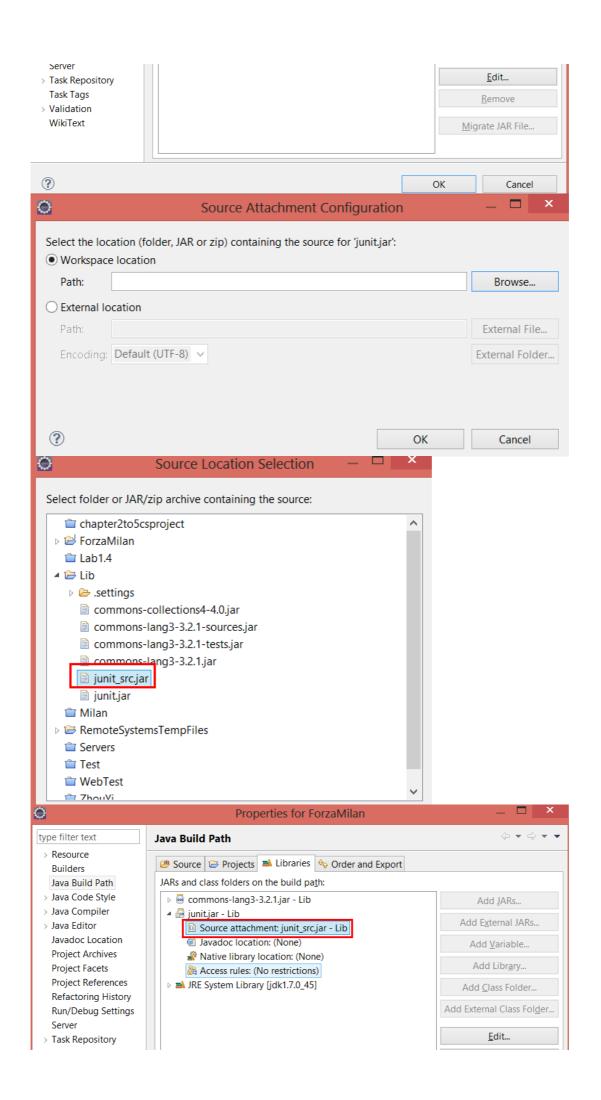
#再把JUnit.jar配置到java项目中,选Add JARs

Properties for ForzaMilan —



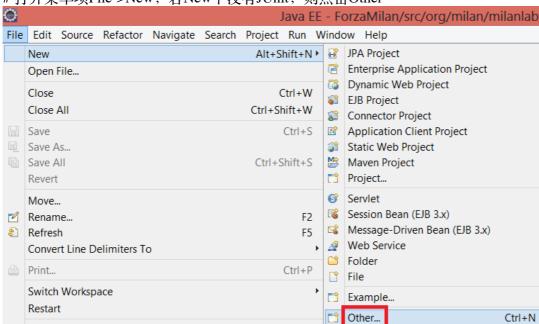
# 再配置JUnit源代码包



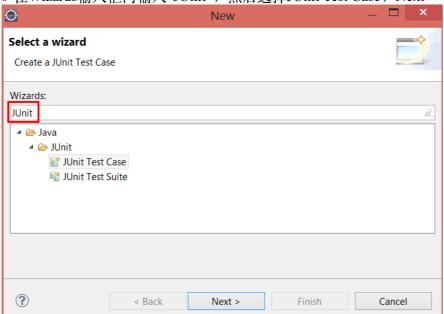


### 创建JUnit 测试类(Test Case类)

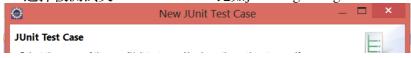
#打开菜单项File->New, 若New下没有JUnit, 则点击Other

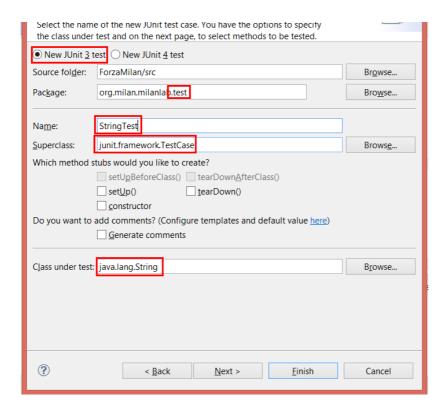


# 在Wizards输入框内输入"JUnit", 然后选择JUnit Test Case, Next

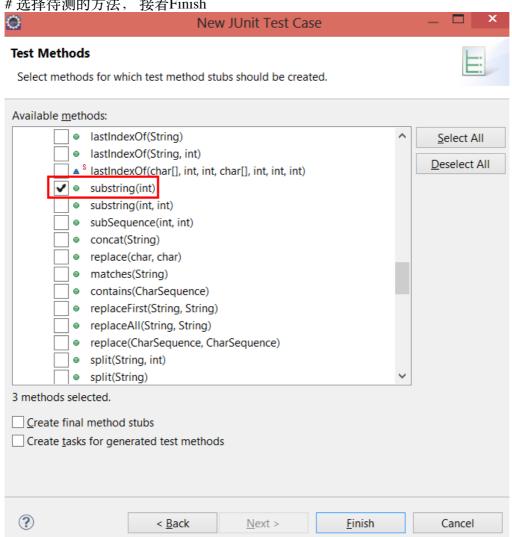


- # 确定Test Case属性,然后Next
- 1>因为导入的Junit包是3.8.1,所以应选择New Junit 3 Test
- 2>通常是测试类(Test Case)和被测试类不在一个包(package)内,所以创建一个"test"包
- 3> 通常测试类的命名=被测试类的名+"Test"
- 4> JUnit3需要测试类继承junit.framework.Test Case
- 5> 选择被测试类 class under test: 比如java.lang.String





#选择待测的方法,接着Finish



```
1 package org.milan.milanlab.test;
  import junit.framework.TestCase;

▲ # org.milan.milanlab

                                          4
      ▶ ⊕ org.milan.milanlab.test
                                             public class StringTest extends TestCase {
       Delications Show.java
                                          6
      DateShow.java
                                                 public void testIsEmpty() {
      MultiThreadingShow.java
                                          8
                                                     fail("Not yet implemented");
                                          Q
      10
      Delta StringShow.java
                                         119
                                                 public void testCompareTo() {
       StringShowTestBK.java
                                         12
                                                     fail("Not yet implemented");
    # org.milan.milanlab.test
                                         13
      StringTest.java
                                         14
    15⊜
                                                 public void testSubstringInt() {

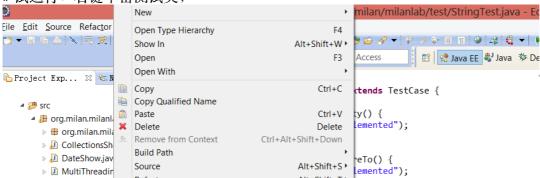
    commons-collections4-4.0.jar

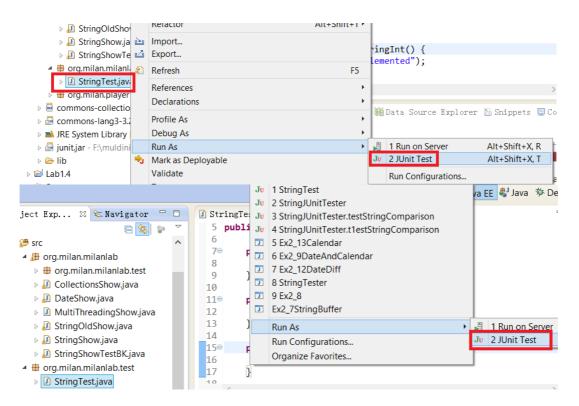
                                         16
                                                     fail("Not yet implemented");
                                         17
                                                 }
  10
#编写JUnit测试类
package org.milan.milanlab.test;
import junit.framework.TestCase;
public class StringTest extends TestCase {
 public void testIsEmpty() {
       String singer = "";
       boolean result = singer.isEmpty();
       assertTrue(result);
 public void testCompareTo() {
       String singer1 = "GEM";
       String singer2 = "ZhangJie";
       boolean result = singer1.compareTo(singer2) >= 0;
       assertTrue("GEM should be prior to ZhangJie.", result);
 public void testSubstringInt() {
       String singer = "I am a singer";
       String result = singer.substring(7, singer.length());
       assertEquals("singer", result);
```

### 运行JUnit测试类

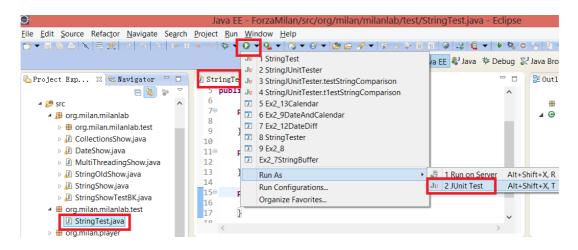
#### @ 测试整个测试类

# 试运行:右键单击测试类,





或者,在当前打开文件是StringTest.java的状态下,点击如下图所示的Run快捷符号,选择Run As > JUnit Test



结果应该如下,JUnit视图会被自动打开,显示第2个测试方法失败,则修改它,直至测试通过。

```
Java - ForzaMilan/src/org/milan/milanlab/test/StringTest.java - Eclipse
File Edit Source Refactor Navigate Search Project Run Window Help
Ouick Access
                                                                           🖺 😭 Java EE 🐉 Java 🎋 Debug 🐉 Java B
📱 Package ... 🏲 Project ... 🚮 JUnit 🖾 🖰 🗖
                                          🛾 StringTest. java 🛭 🖟 StringShow. java 👚 🤚 Assert. class
               import junit.framework.TestCase;
Finished after 0.023 seconds
 Runs: 3/3 ■ Errors: 0 ■ Failures: 1
                                               public class StringTest extends TestCase {
                                                  public void testIsEmpty() {
 ▲ 🛍 org.milan.milanlab.test.StringTest [Runner: JUnit 3]
                                                      String singer =
                                                      boolean result = singer.isEmpty();
   testCompareTo (0.000 s)
                                           10
                                                      assertTrue(result);
     testIsEmpty (0.000 s)

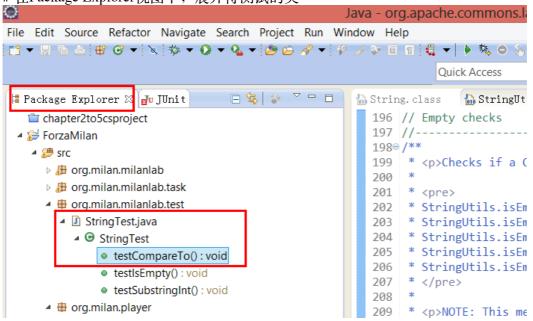
    ■ testSubstringInt (0.000 s)
                                                  public void testCompareTo() {
                                                      String singer1 = "GEM";
String singer2 = "ZhangJie";
                                                      boolean result = singer1.compareTo(singer2) >= 0;
```

```
| assertTrue("GEM should be prior to ZhangJie.", result);

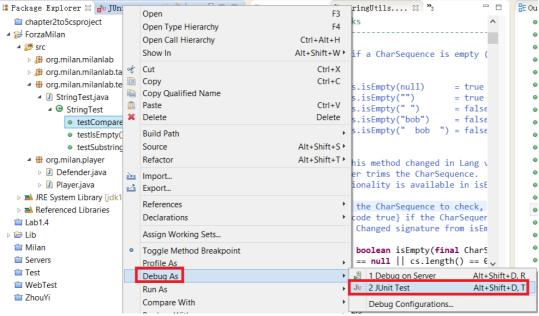
| assertTrue("GEM should be prior to ZhangJie.", result);
| assertTrue("GEM should be prior to ZhangJie.", result);
| assertTrue("GEM should be prior to ZhangJie.", result);
| public void testSubstringInt() {
| String singer = "I am a singer";
| String result = singer.substring(7, singer.length());
| assertEquals("singer", result);
| assertTrue("GEM should be prior to ZhangJie.", result);
| assertT
```

### @ 测试JUnit测试类内的一个方法

# 在Package Explorer视图下,展开待测试的类



# 鼠标在待测试类的待测试方法上单击右键,然后选择Debug as 〉JUnit Test,即可。



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