



Junit On IntelliJ IDEA





IntelliJ IDEA

- Every aspect of IntelliJ IDEA is specifically designed to maximize developer productivity.
- Together, powerful static code analysis and ergonomic design make development not only productive but also an enjoyable experience.



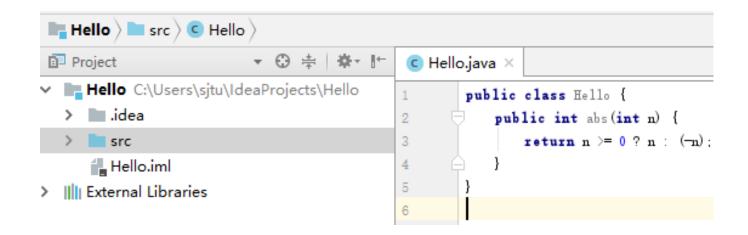


Junit on IntelliJ

- 内置Junit4&5
- 内置测试覆盖度工具
- 测试类生成插件
- 导出测试报告及测试覆盖率报告

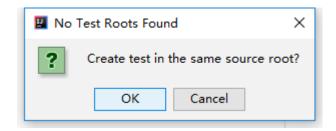


Junit on IntelliJ





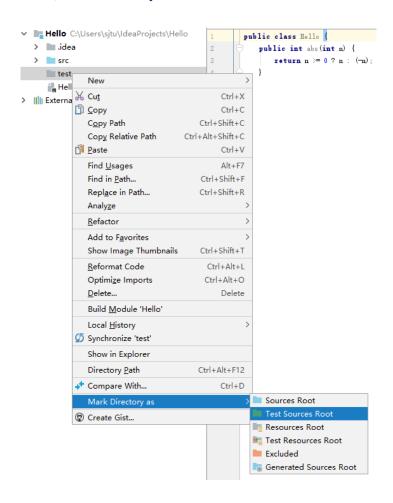
● 右键被测类.java文件,选择"Go To"-"Test",打开测试类生成界面。弹出提示



为了保持良好的代码结构,一般将测试类与主程序放置 在不同的根目录下

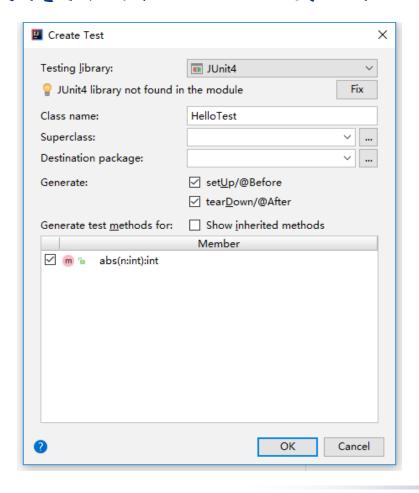


创建test文件夹,并将其设置为Test的根目录





进入创建测试类面板,注意"JUnit4 library not found in the module"的提示,点击"Fix"为工程加入Junit包





```
C Hello.java >
                 d HelloTest.java ×
         import org. junit. After;
         import org. junit. Before;
         import org. junit. Test;
        import static org. junit. Assert. *;
         public class HelloTest {
8
             @Before
9
             public void setUp() throws Exception {
10
11
12
13
             @After
             public void tearDown() throws Exception {
14
15
16
17
             @Test
             public void abs() {
18
19
```



开始测试

● 右键test类或在test类文件中点击 □ 图标,进行测试

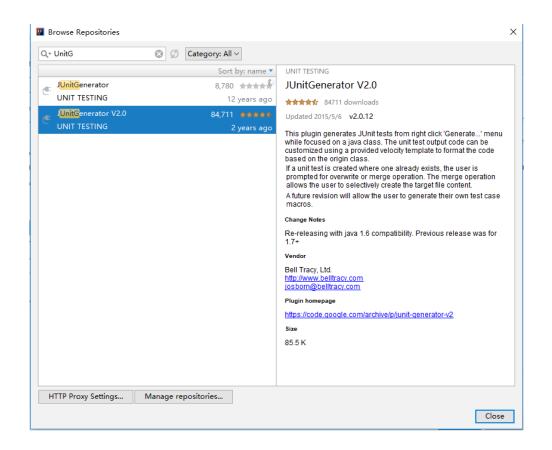
▶ R <u>u</u> n 'HelloTest'	Ctrl+Shift+F10
<u></u> <u>D</u> ebug 'HelloTest'	
Run 'HelloTest' with Coverage	е

	ines covered in 'all classes		1.1
Element	Class, %	Method, %	Line, %
Com com			
iava java			
iavafx javafx			
iavax javax			
i jdk			
META-INF			
netscape			
oracle			
org org			
sun			
C Hello	100% (1/1)	100% (1/1)	100% (2/2)



使用插件生成测试代码

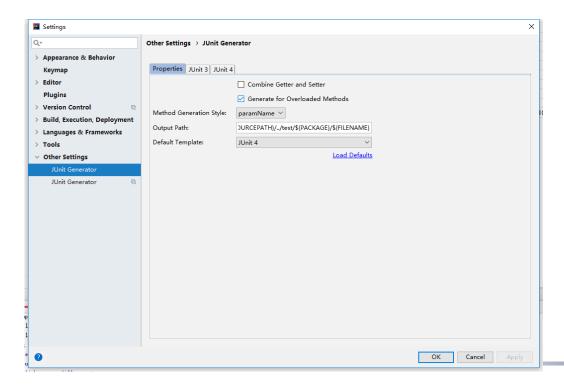
● 打开File->Settings->Plugins->Browse Repositories
,搜索JunitGenerator并安装(可能要挂代理)。





配置插件

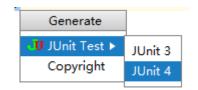
- 在File->Settings->Other Settings里找到Junit Generator, 修改里面的设置以适应工程:
 - · Output Path: 自动生成测试代码的输出路径
 - · JUnit 4: 生成测试文件的模板





生成测试代码

在被测代码文件里右键选择Generate->JUnit Test->JUnit 3/4。或者使用快捷键Alt+Insert。

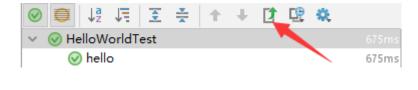


该插件会为测试类下的每个方法生成测试函数,可以使用 IntelliJ自带的方式选择只为部分函数生成测试函数



导出测试报告

在测试控制窗口界面点击Export Test Results, 选择导出格式和路径。

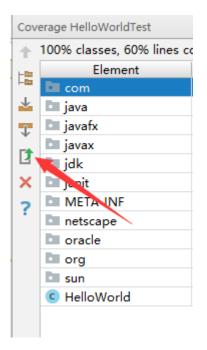


Export Test	Results X	
Export format		
<u>⊕</u> HTML		
○ <u>X</u> ML		
O <u>C</u> ustom	, apply XSL template:	
Output		
File <u>n</u> ame:	Test Results - HelloWorldTest.html	
<u>F</u> older:	D:\TestResult	
☑ Open exported file in browser		
2	OK Cancel	



导出测试覆盖率报告

在测试覆盖率窗口点击Generate Coverage Report, 选择导出路径。



```
[ all classes ] [ <empty package name> ]

Coverage Summary for Class: HelloWorld (<empty package name>)

Class | Method, % | Line, % |

HelloWorld | 66.7% (2/3) | 60% (3/5)

HelloWorld$$EnhancerByMockitoWithCGLIB$$78b37baf |

HelloWorld$$EnhancerByMockitoWithCGLIB$$78b37baf$$FastClassByMockitoWithCGLIB$$3553d01e |

HelloWorld$$FastClassByMockitoWithCGLIB$$1a2fa200 |

total | 66.7% (2/3) | 60% (3/5)
```

```
public class HelloWorld {
   public int count = 0;
   public String hello() {
      return this.getStr();
   }
   public String getStr() {
      count++;
      return "Hello world!";
   }
}
```

generated on 2018-03-09 15:09