

FRAMEWORK

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TESTING

# TESTNG INSTALL

Install TestNG Eclipse

Install

Available Software

Check the items that you wish to install.

Work with:

https://testng.org/testng-eclipse-update-site/7.4.0


Add...

Manage...

type filter text

Select All

Deselect All

Name	Version
<input checked="" type="checkbox"/> >  TestNG	

Details

☒ Show only the latest versions of available software

☒ Group items by category

☐ Show only software applicable to target environment

☒ Contact all update sites during install to find required software

☒ Hide items that are already installed

What is [already installed](#)?

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# TESTNG

TestNG is a testing framework designed to simplify a broad range of testing needs, from unit testing (testing a class in isolation of the others) to integration testing (testing entire systems made of several classes, several packages and even several external frameworks, such as application servers).

Writing a test is typically a three-step process:

- Write the business logic of your test and insert TestNG annotations in your code.
- Add the information about your test (e.g. the class name, the groups you wish to run, etc...) in a `testng.xml` file or in `build.xml`.
- Run TestNG.

# ANNOTATIONS

- ▶ **@BeforeSuite:** The annotated method will be run before all tests in this suite have run.
- ▶ **@AfterSuite:** The annotated method will be run after all tests in this suite have run.
- ▶ **@BeforeTest:** The annotated method will be run before any test method belonging to the classes inside the <test> tag is run.
- ▶ **@AfterTest:** The annotated method will be run after all the test methods belonging to the classes inside the <test> tag have run.
- ▶ **@BeforeGroups:** The list of groups that this configuration method will run before. This method is guaranteed to run shortly before the first test method that belongs to any of these groups is invoked.
- ▶ **@AfterGroups:** The list of groups that this configuration method will run after. This method is guaranteed to run shortly after the last test method that belongs to any of these groups is invoked.
- ▶ **@BeforeClass:** The annotated method will be run before the first test method in the current class is invoked.
- ▶ **@AfterClass:** The annotated method will be run after all the test methods in the current class have been run.
- ▶ **@BeforeMethod:** The annotated method will be run before each test method.
- ▶ **@AfterMethod:** The annotated method will be run after each test method.

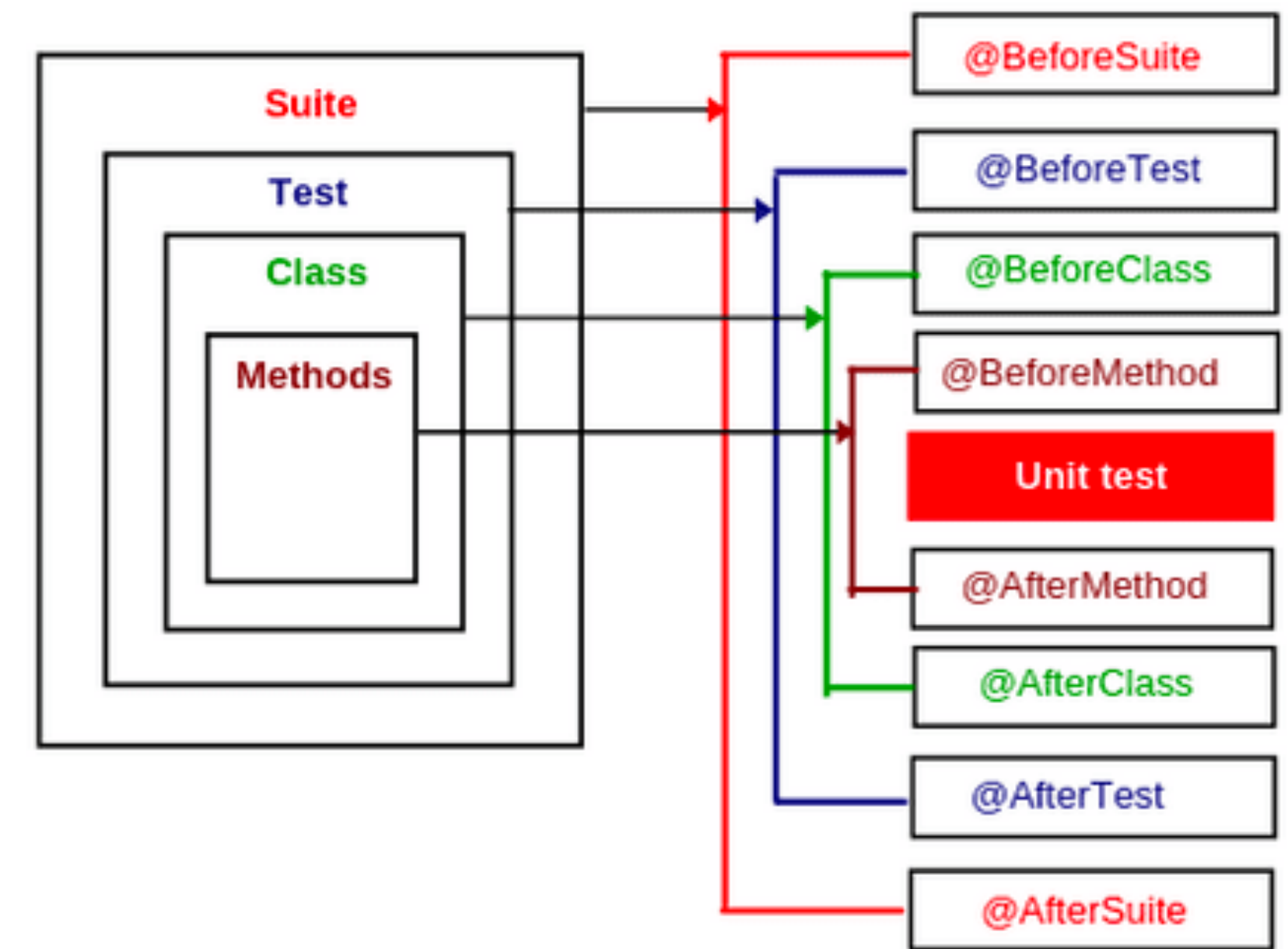
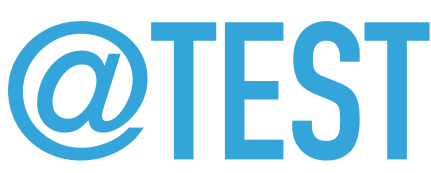


Fig: TestNG test life cycle & corresponding annotations



**alwaysRun**

If set to true, this test method will always be run even if it depends on a method that failed.

**dataProvider**

The name of the data provider for this test method.

**dataProviderClass**

The class where to look for the data provider. If not specified, the data provider will be looked on the class of the current test method or one of its base classes. If this attribute is specified, the data provider method needs to be static on the specified class.

**dependsOnGroups**

The list of groups this method depends on.

**dependsOnMethods**

The list of methods this method depends on.

**groups**

The list of groups this class/method belongs to.

**priority**

The priority for this test method. Lower priorities will be scheduled first.

# TESTNG.XML

```
<!DOCTYPE suite SYSTEM "https://testng.org/testng-1.0.dtd" >
  <suite name="Suite1" verbose="1" >
    <test name="Nopackage" >
      <classes>
        <class name="NoPackageTest" />
      </classes>
    </test>

    <test name="Regression1">
      <classes>
        <class name="test.sample.ParameterSample"/>
        <class name="test.sample.ParameterTest"/>
      </classes>
    </test>
  </suite>
```



## PACKAGE CONFIG

```
<!DOCTYPE suite SYSTEM "https://testng.org/testng-1.0.dtd" >  
  
<suite name="Suite1" verbose="1" >  
  <test name="Regression1" >  
    <packages>  
      <package name="test.sample" />  
    </packages>  
  </test>  
</suite>
```



# INCLUDE EXCLUDE CONFIG

```
<test name="Regression1">
  <groups>
    <run>
      <exclude name="brokenTests" />
      <include name="checkinTests" />
    </run>
  </groups>

  <classes>
    <class name="test.IndividualMethodsTest">
      <methods>
        <include name="testMethod" />
      </methods>
    </class>
  </classes>
</test>
```





# METHODS CONFIG

```
<test name="Regression1" preserve-order="false">
  <classes>
    <class name="test.Test1">
      <methods>
        <include name="m1" />
        <include name="m2" />
      </methods>
    </class>
    <class name="test.Test2" />
  </classes>
</test>
```



- ▶ <https://testng.org/doc/documentation-main.html>
- ▶ <https://testng.org/testng-eclipse-update-site/7.4.0>
- ▶

