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| --- | --- | --- |
| Feature | JUnit 4 | TestNG |
| test annotation | @Test | @Test |
| run before all tests in this suite have run | — | @BeforeSuite |
| run after all tests in this suite have run | — | @AfterSuite |
| run before the test | — | @BeforeTest |
| run after the test | — | @AfterTest |
| run before the first test method that belongs to any of these groups is invoked | — | @BeforeGroups |
| run after the last test method that belongs to any of these groups is invoked | — | @AfterGroups |
| run before the first test method in the current class is invoked | @BeforeClass | @BeforeClass |
| run after all the test methods in the current class have been run | @AfterClass | @AfterClass |
| run before each test method | @Before | @BeforeMethod |
| run after each test method | @After | @AfterMethod |
| ignore test | @ignore | @Test(enbale=false) |
| expected exception | @Test(expected = ArithmeticException.class) | @Test(expectedExceptions = ArithmeticException.class) |
| timeout | @Test(timeout = 1000) | @Test(timeout = 1000) |

The main annotation differences between JUnit4 and TestNG are

1. In JUnit 4, we have to declare “@BeforeClass” and “@AfterClass” method as static method. TestNG is more flexible in method declaration, it does not have this constraints.

2. 3 additional setUp/tearDown level: suite and group (@Before/AfterSuite, @Before/AfterTest, @Before/AfterGroup). See more [detail here.](http://testng.org/doc/documentation-main.html#annotations)