PC WEENIES"



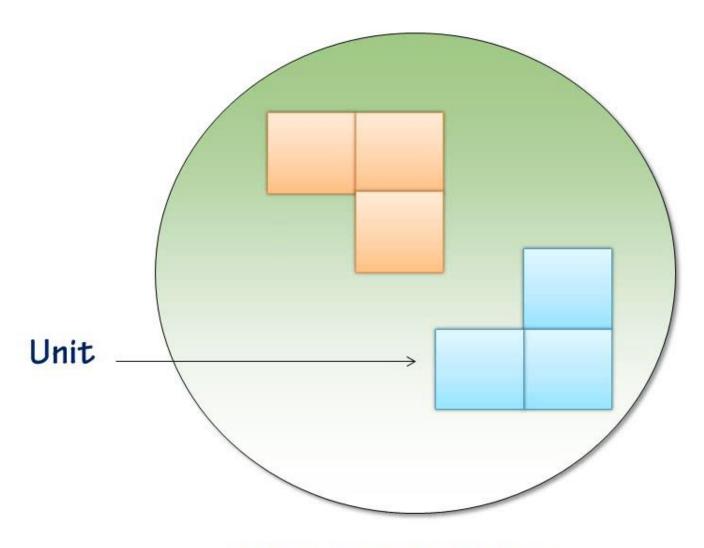




UNIT TESTING USING JUNIT

by Syed Mohammad Sualeh Ali

What Is Unit Testing?



In Java the smallest "unit" is a class



JUnit

Write tests, run them, see results!



JUnit Features

- Asserts
- Test setup and teardown
- Exception testing
- Test suites
- Parameterized testing
- Assumptions
- Rules
- Theories
- Integration with popular build systems





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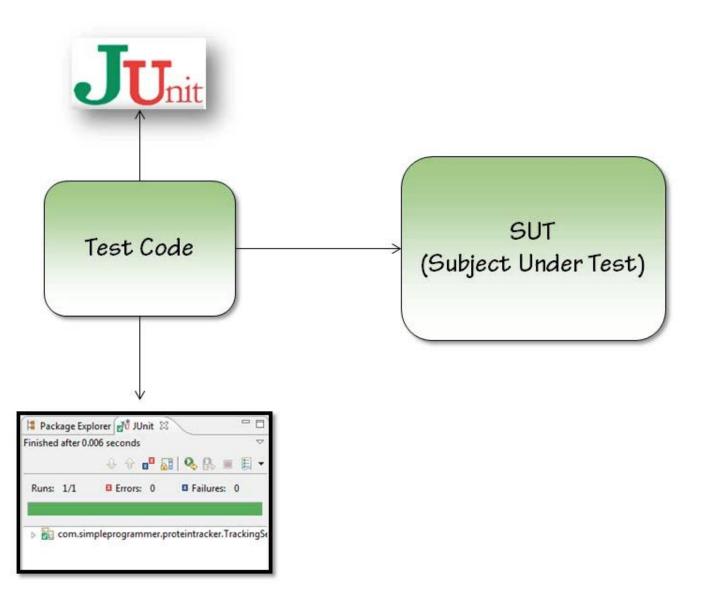


Integration with popular build systems



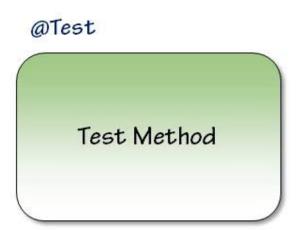


JUnit





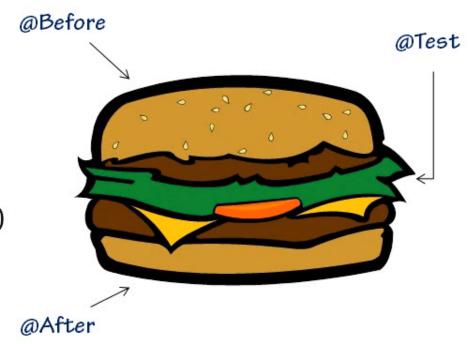
JUnit Test Methods





JUnit Annotations (Basic)

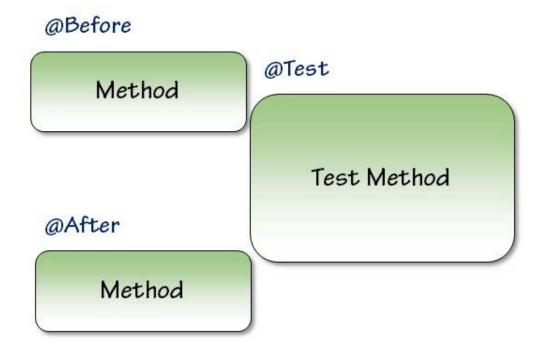
- @Test
- @Before
- @After
- @BeforeClass
- @AfterClass
- @lgnore
- @Test(expected = Exception.class)
- @Test(timeout = 100)





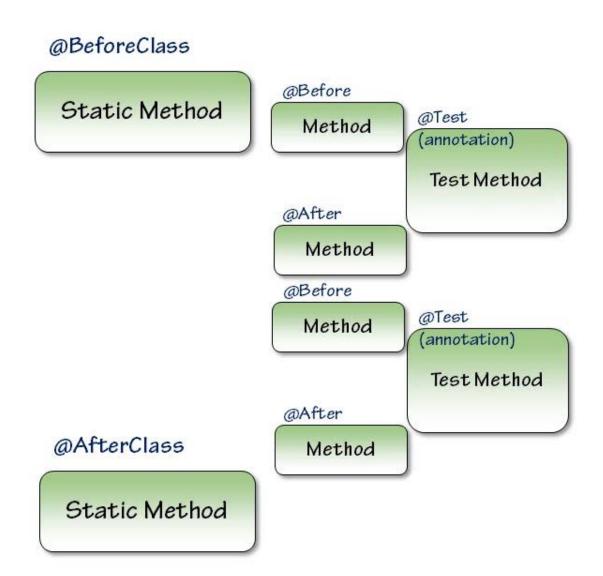


Before And After





BeforeClass and AfterClass





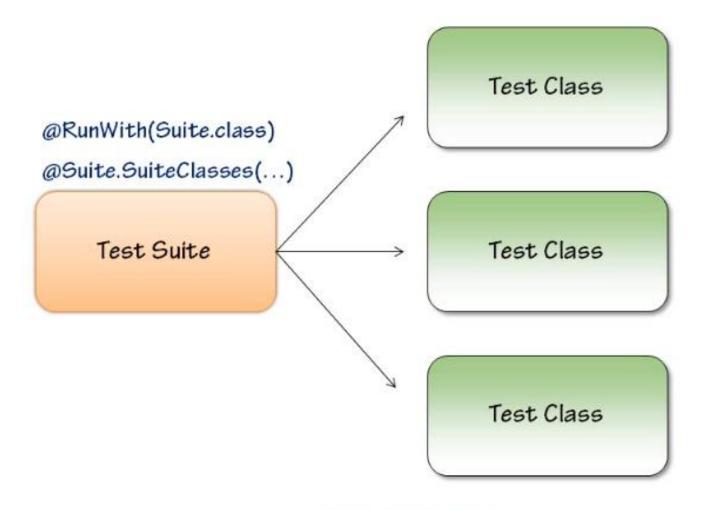
Assertions (Basic)

- assertArrayEquals
- assertEquals
- assertTrue
- assertFalse
- assertNull
- assertNotNull
- assertSame
- assertNotSame
- fail





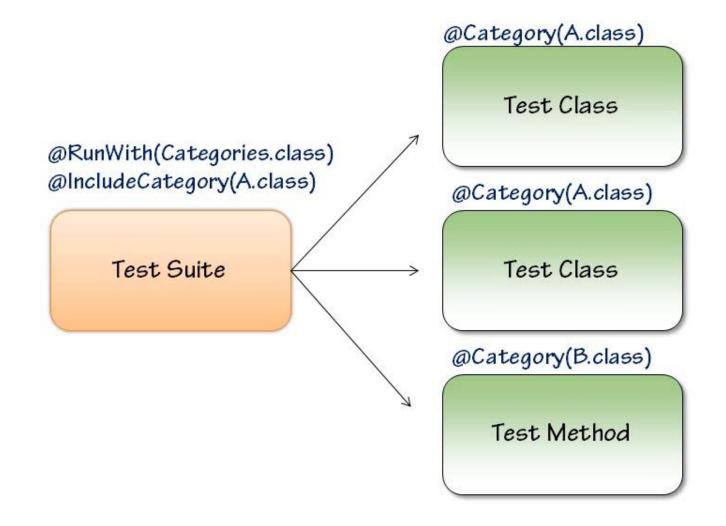
Test Suites



Test suites are sweet!

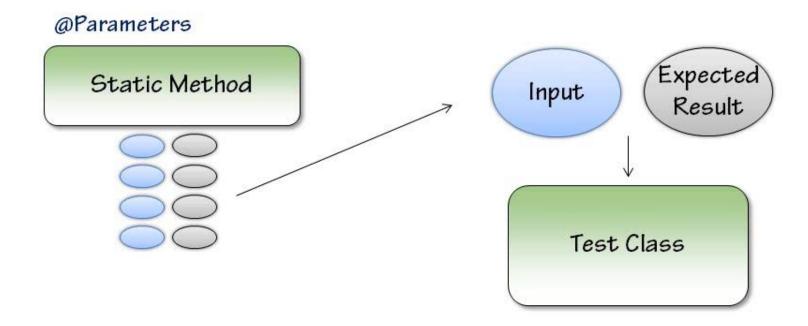


Categories



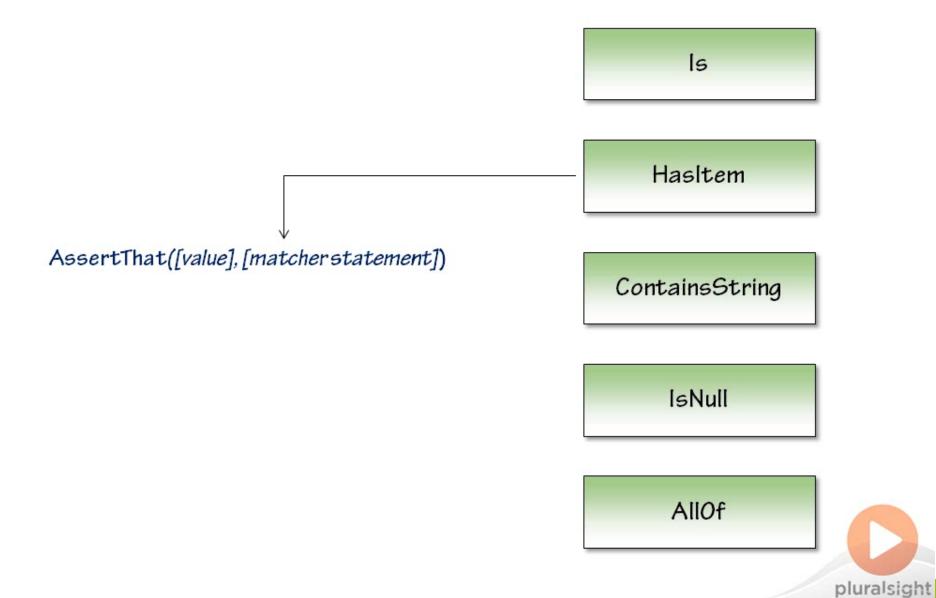


Parameterized Tests





Advanced Assertions



Rules

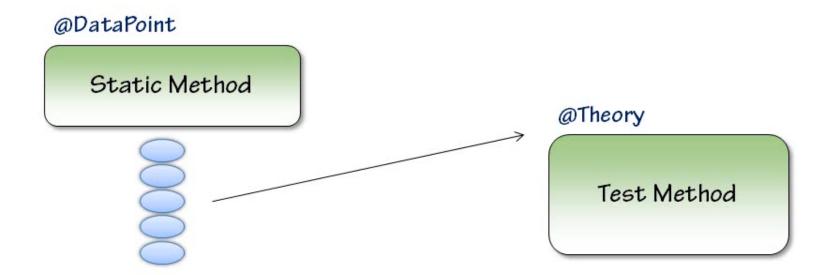
- TemporaryFolder
- ExternalResource
- ErrorCollector
- Verifier
- TestWatcher
- TestName
- Timeout
- ExpectedException
- RuleChain

@ClassRule





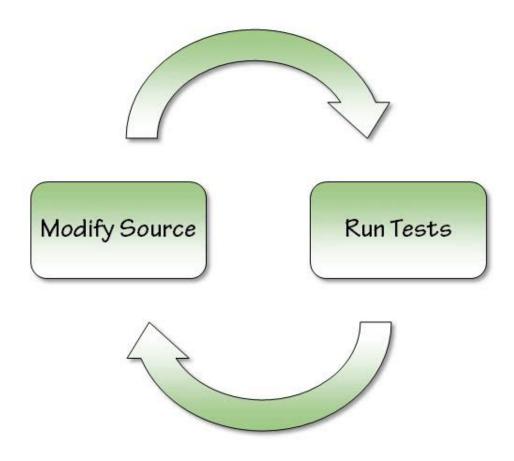
Theories



Until it is proven, it is just a theory



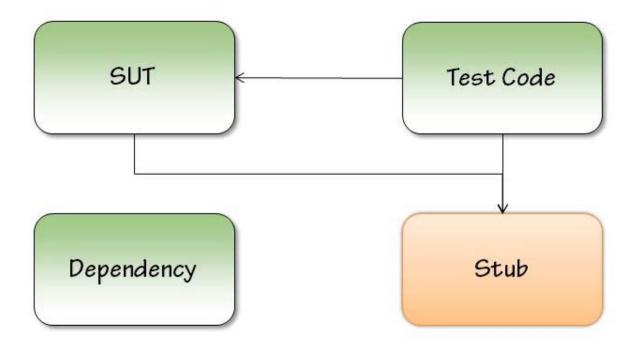
Continuous Testing



It's all about the feedback loop, baby



Stubs





Mocks

