

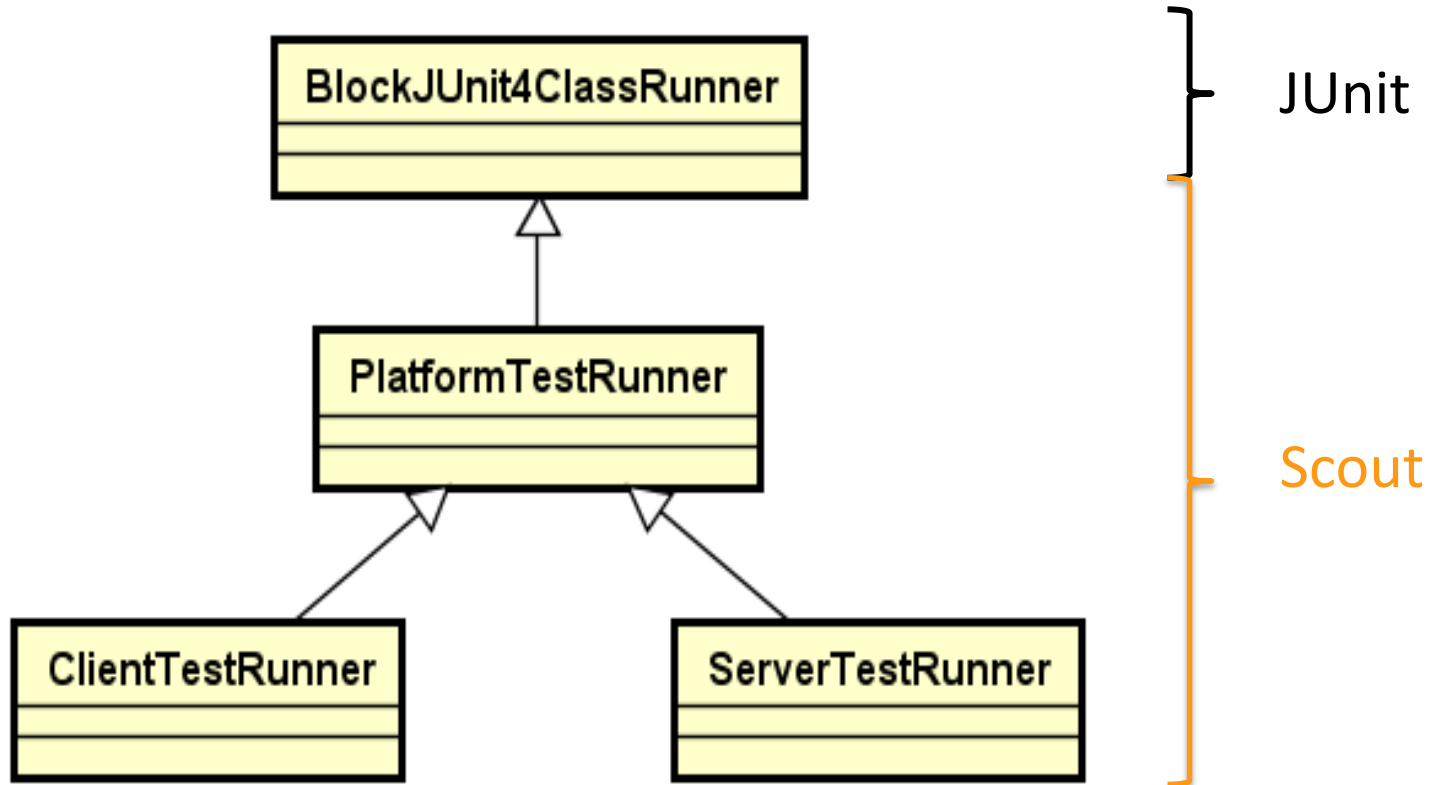
# Testing with Scout Neon

Scout UGM 2016, Ludwigsburg

# Agenda

- Simple unit test
- Replacing Beans with Mocks
- TestRunners

# Test Runners



# Custom Scout Test Runners

- Allows setting contextual info (session, subject)
- Custom ExceptionHandler (JUnitExceptionHandler)
- Convenience for mocking beans

# PlatformTestRunner

Use to run tests which require the IPlatform!

```
@RunWithNewPlatform
@RunWithSubject("testSubject")
@RunWith(PlatformTestRunner.class)
public class MyTest {

    @Times(100)
    @Test
    public void testXY() {
        ...
    }
}
```

New instead of globally shared platform

Subject with Principle

Execute multiple times to find problems

# ClientTestRunner

Runs inside ModelJob with ClientRunContext

```
@RunWithClientSession(MySession.class)
@RunWith(ClientTestRunner.class)
public class MyTest {

    @Test
    public void testXY() {
        ...
    }
}
```

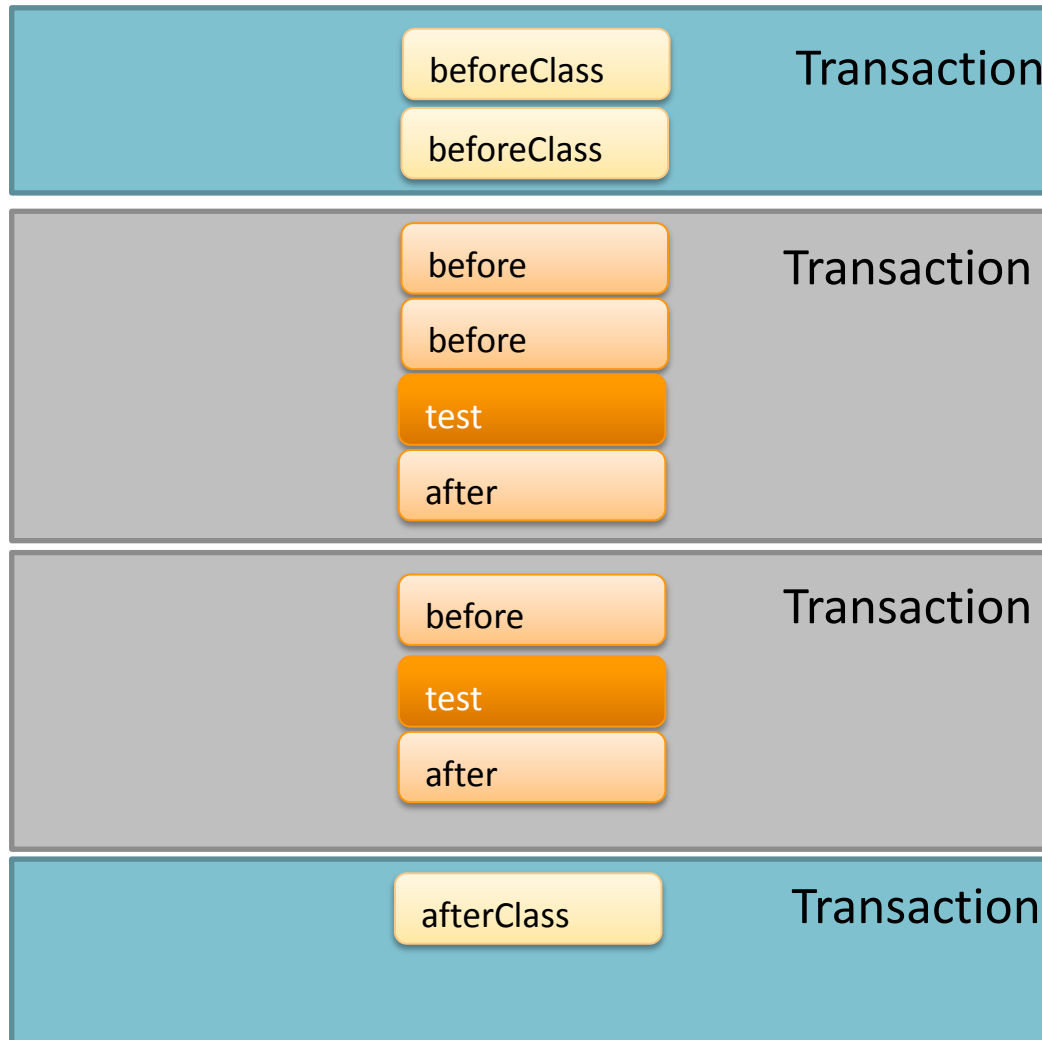
Cached per subject  
(by default)

specify provider =  
ClientSessionProvider.class

to avoid caching

# ServerTestRunner

Each Test Method is Executed in Separate Transaction




# ServerTestRunner


## Each Test Method is Executed in Separate Transaction

```
@RunWithClientNotifications  
@RunWithServerSession(MySession.class)  
@RunWith(ServerTestRunner.class)  
public class MyTest {  
  
    @Test  
    public void testXY() {  
        ...  
    }  
}
```

Sets clientId,  
Collector  
ThreadLocals



Cached per subject  
(by default)





# Manipulating BeanRegistry for Testing

```
private List<IBean<?>> m_beans;
```

```
@Before
```

```
public void before(){
```

```
    SqlServiceMock sqlService = new SqlServiceMock();
```

```
    m_beans = TestingUtility.registerBeans(  
        new BeanMetaData(ISqlService.class)
```

```
        .withInitialInstance(sqlService)
```

```
        .withApplicationScoped(true));
```

```
    }
```

```
}
```

```
@After
```

```
public void after() {
```

```
    TestingUtility.unregisterBeans(m_beans);
```

```
}
```

**Thanks!**

@EclipseScout

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