

Annotations and Assertions



Andrejs Doronins

TEST AUTOMATION ENGINEER



Assertions



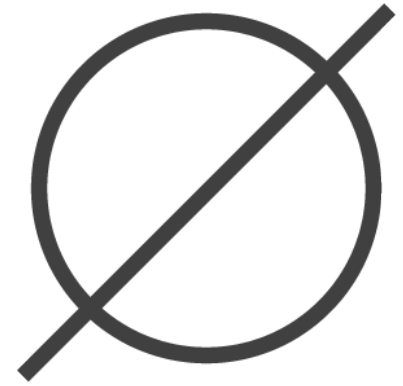
`assertTrue()`

`assertFalse()`



`assertEquals()`

`assertNotEquals()`



`assertNull()`

`assertNotNull()`

AAA

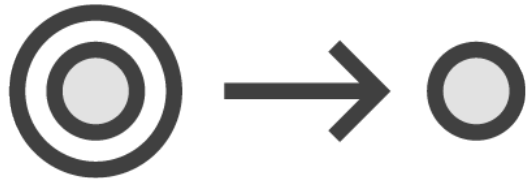
Arrange

Act

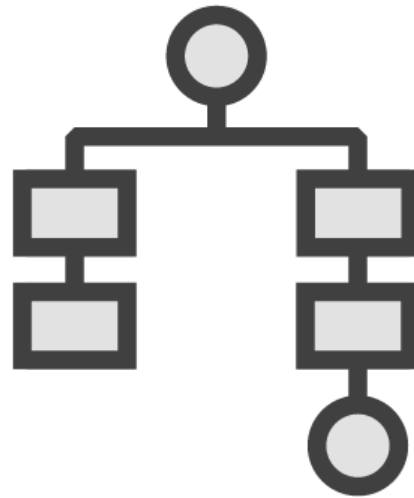
Assert



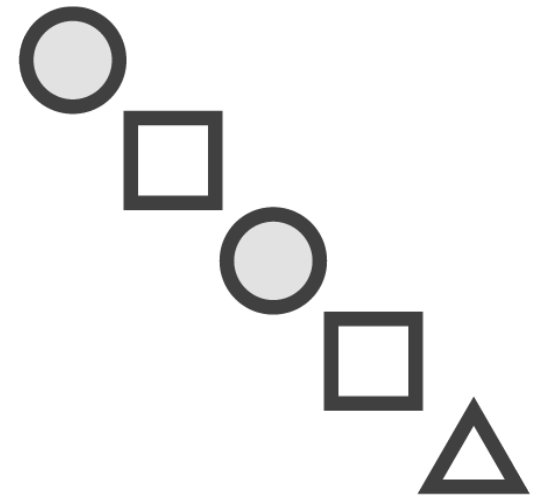
Assertions



`assertEquals()`



`assertEqualsDeep()`



`assertEqualsNoOrder()`

Hard Assert

@Test

```
public void verifyX(){
```

```
    ...
```

```
    // Assert
```

```
    Assert.assertNotNull(v1);
```

X

```
    Assert.assertEquals(v2,v3);
```

// Won't run

```
    Assert.assertEquals(v4,v5);
```

// Won't run

```
}
```



Soft Assert

@Test

```
public void verifyZ(){
```

```
    ...
```

```
    // Assert
```

```
    SoftAssert sa = new SoftAssert();
```

```
    sa.assertNotNull(v1);
```

```
    sa.assertEquals(v2,v3);
```

```
    sa.assertAll();
```

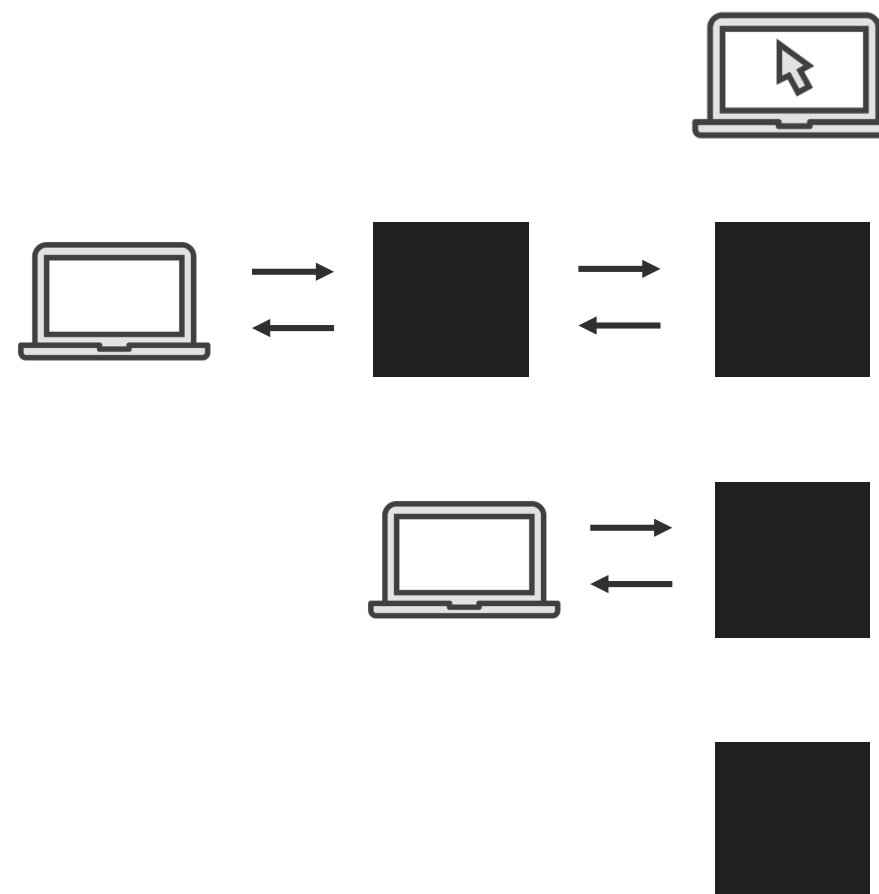
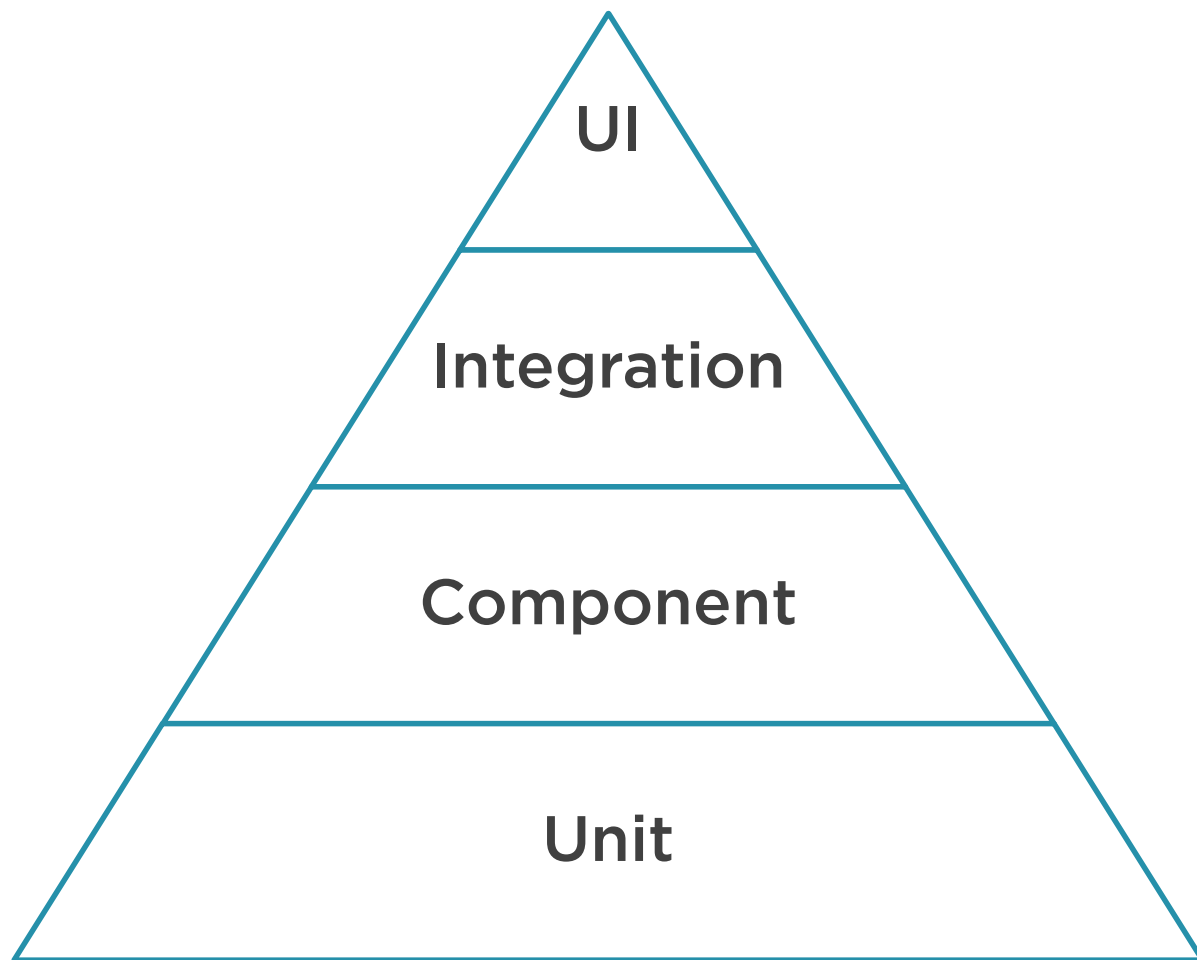
```
}
```

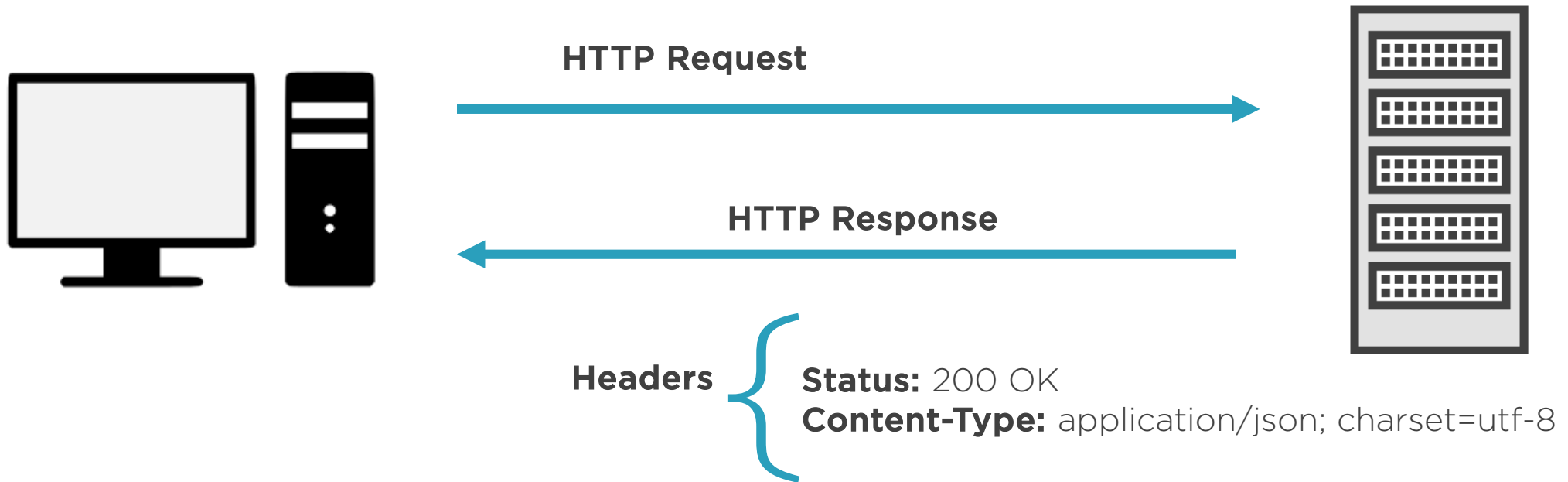
X

// Will run

// Throw all exceptions







Single Responsibility Principle for Tests

@Test

```
public void verifyX(){  
    // Assert  
    assertNotNull(v1);  
}
```

@Test

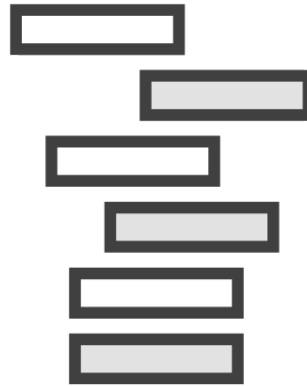
```
public void verifyZ(){  
    // Assert  
    assertEquals(v1,v2);  
}
```

Soft Assert Cases



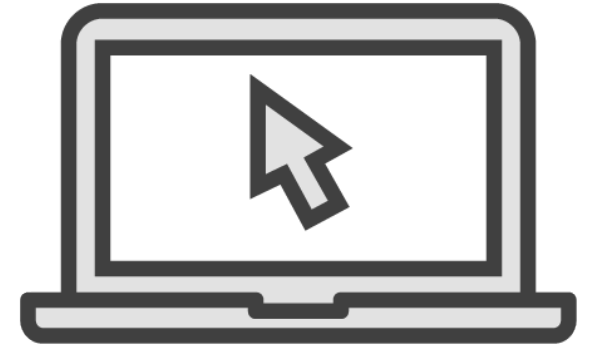
Unit

Almost never



Component & Integration

Infrequently



UI

Sometimes



@BeforeMethod

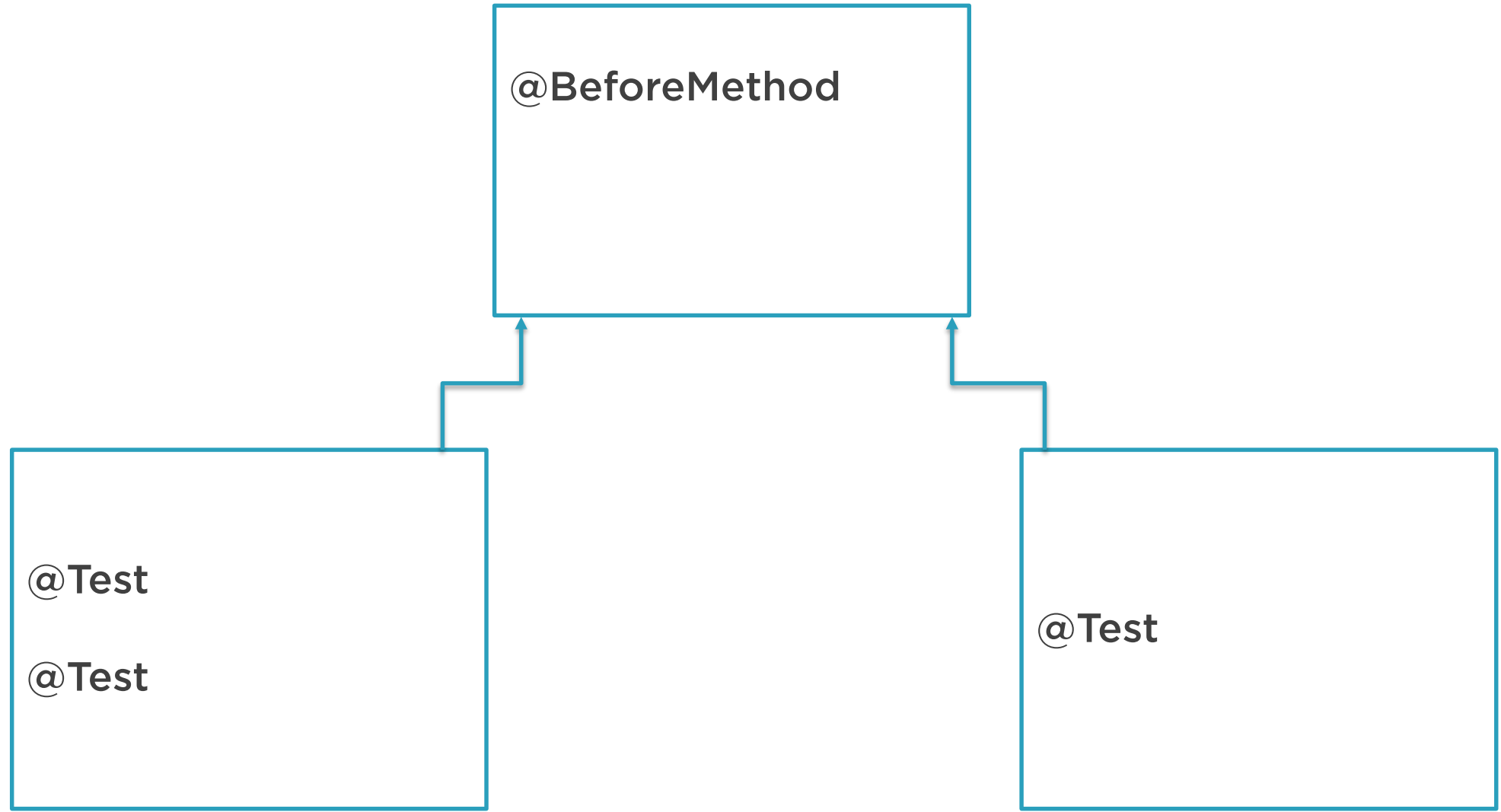
@Test

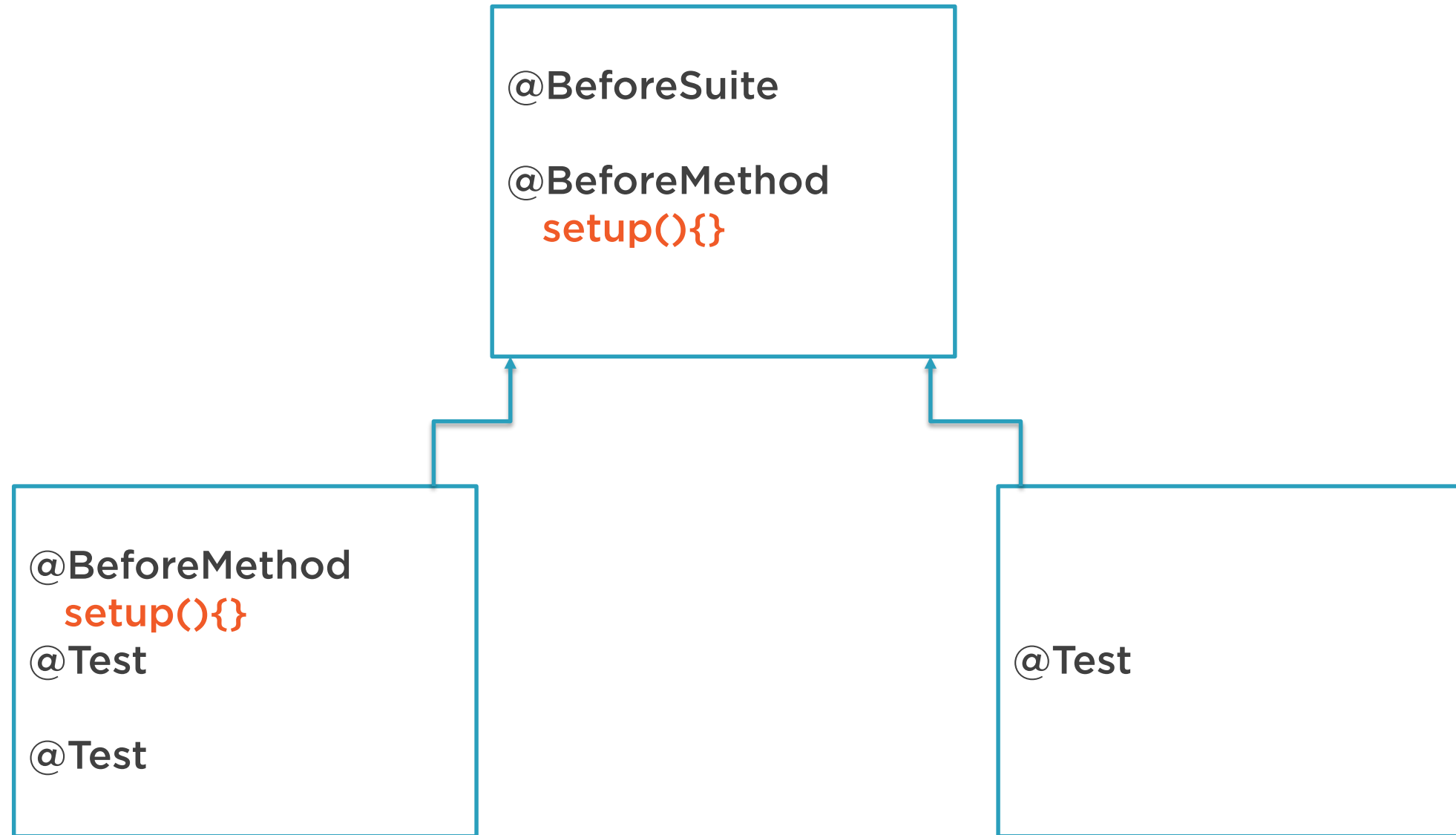
@Test

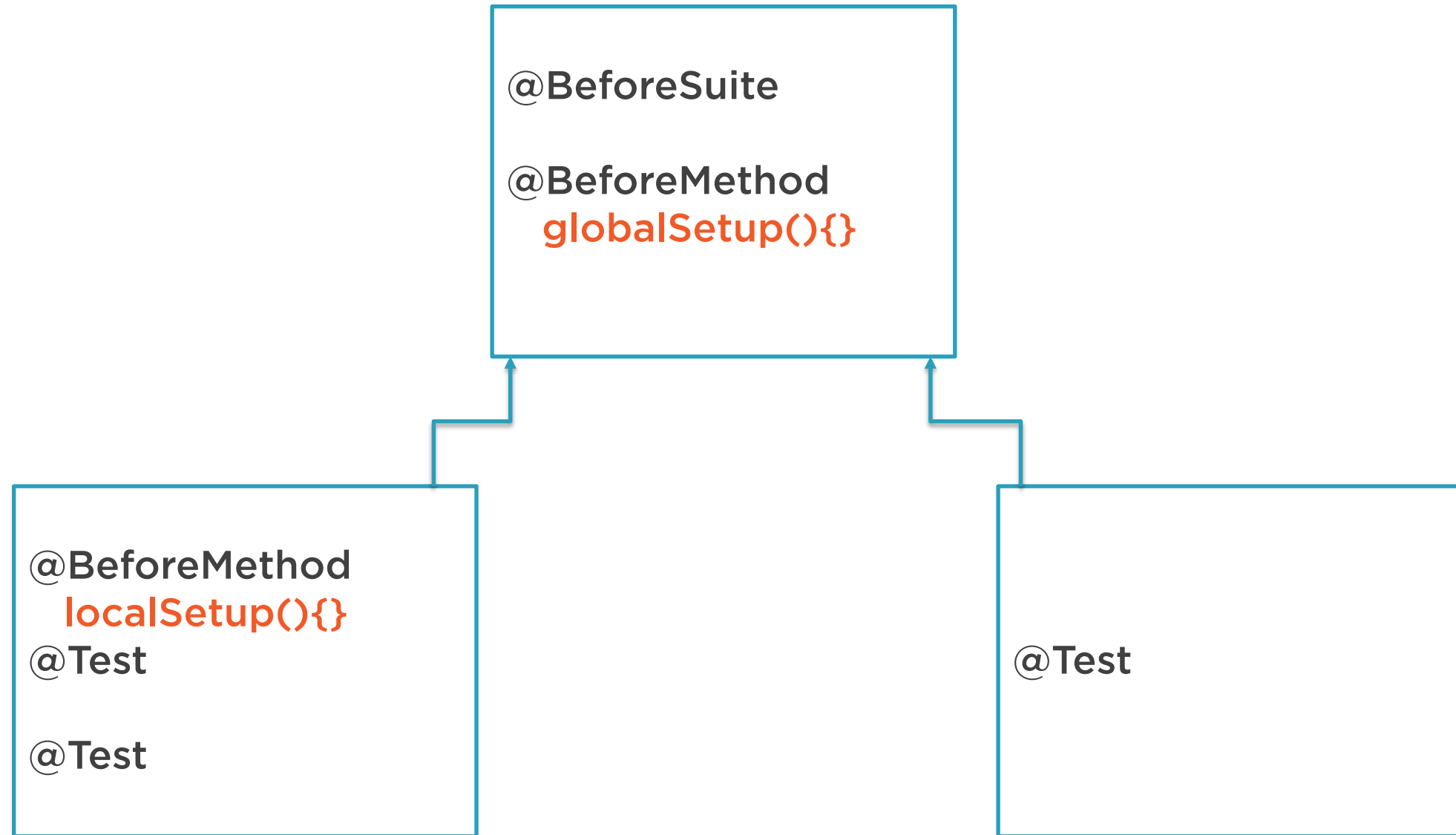
@BeforeMethod

@Test



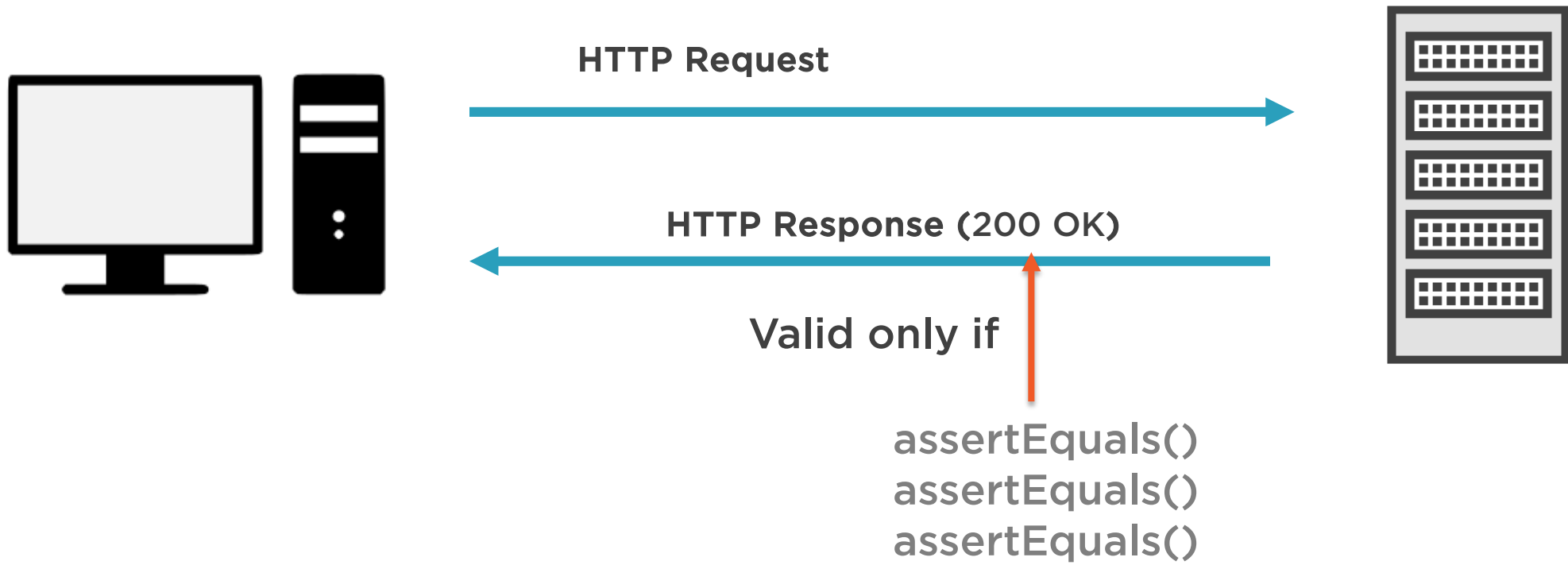






```
throw new SkipExcetion("...");
```



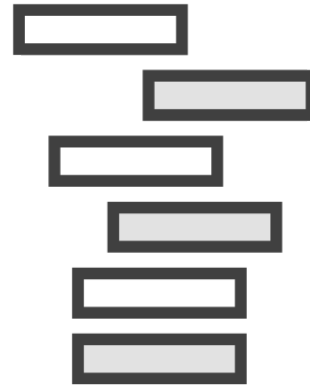


SkipException Cases



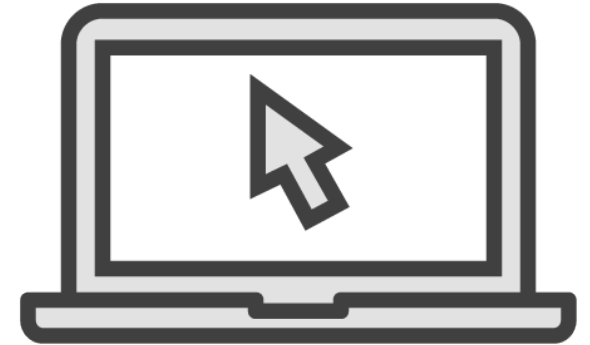
Unit

Yes



Component & Integration

Yes



UI

Yes



@Before_____

```
public void setup(){  
  
    if(!condition){ throw new SkipExcetion("..."); }  
}
```

@Test

```
public void verifyX(){  
  
    Assert.assertEquals(v1,v2);  
  
    new SoftAssert().assertEquals(v1,v2);  
  
}
```

@After_____

```
public void cleanup(){}  
  
}
```

