

# Classical vs Mockist Testing



```
public class ClassicalMoneyTransferTests
{
    [Fact]
    public void Transfer_ShouldUpdateBalances()
    {
        var fromAcc = new Account("A1", 1000);
        var toAcc = new Account("A2", 500);
        var service = new MoneyTransferService();

        service.Transfer(fromAcc, toAcc, 200);

        fromAcc.Balance.Should().Be(800);
        toAcc.Balance.Should().Be(700);
    }
}
```

## Classical Testing

```
public class MockistMoneyTransferTests
{
    [Fact]
    public void Transfer_ShouldCallDebitAndCredit()
    {
        var mockFromAcc = new Mock<Account>("A1", 1000);
        var mockToAcc = new Mock<Account>("A2", 500);

        var service = new MoneyTransferService();

        service.Transfer(mockFromAcc.Object, mockToAcc.Object, 200);

        mockFromAcc.Verify(a => a.Debit(200), Times.Once);
        mockToAcc.Verify(a => a.Credit(200), Times.Once);
    }
}
```

## Mockist Testing

# Classical Testing Philosophy

Test the outcome  
of operations

Use real objects  
whenever practical

Mock only external  
dependencies  
(databases, web  
services, file  
systems, queues)

Verify the final  
state rather than  
how you got there

# Mockist Testing Philosophy

Test the  
interactions  
between objects

Mock all  
dependencies to  
isolate the unit  
under test

Focus on how  
objects collaborate

Verify that  
methods are  
called with correct  
parameters

## Classical Testing - Pros vs Cons

Refactoring-friendly:  
Tests don't break  
when you change  
implementation  
details

Realistic: Tests  
exercise real code  
paths

Unmanageable:  
When external  
dependencies are  
involved

Cascading  
failures: One  
broken class  
breaks many tests

## Mockist Testing - Pros vs Cons

Smooth Execution:  
When external  
dependencies are  
involved

Precise isolation:  
Failures point to  
exact component

Coupling: Tests  
become coupled  
to implementation  
details

Mock complexity:  
Heavy setup and  
verification logic



## Few Other Points

In a codebase, you generally **can't have only Classical testing** because you will have external dependencies which will require mockist testing.

However, in a codebase you **can have only Mockist testing** if you stick strictly with Mockist testing.

In Classical testing, some classes / utils are **tested transitively** through higher level **classes** instead of being tested explicitly unless they have complex logic.

# When To Use What

# Use Classical testing to verify system behavior and Mockist testing to verify interactions with external collaborators — mixing both thoughtfully in your tests.

Use Classical Testing For	Use Mockist Testing For
Domain Logic & Business rules	When Dependencies are external - databases, web services, file systems, queues
Mathematical / Algorithmic Code	
Value Objects & Data Structures	
When Dependencies are not external	