

# Rendering Branching Over Boolean Tests Obsolete

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```
operationA();  
operationB();
```

- ◀ **Two operations are coupled**  
Call to op.A must be followed by a call to op.B

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```
operationA(operationB);
```

- ◀ **The callback principle**  
Pass op.B as an argument to op.A

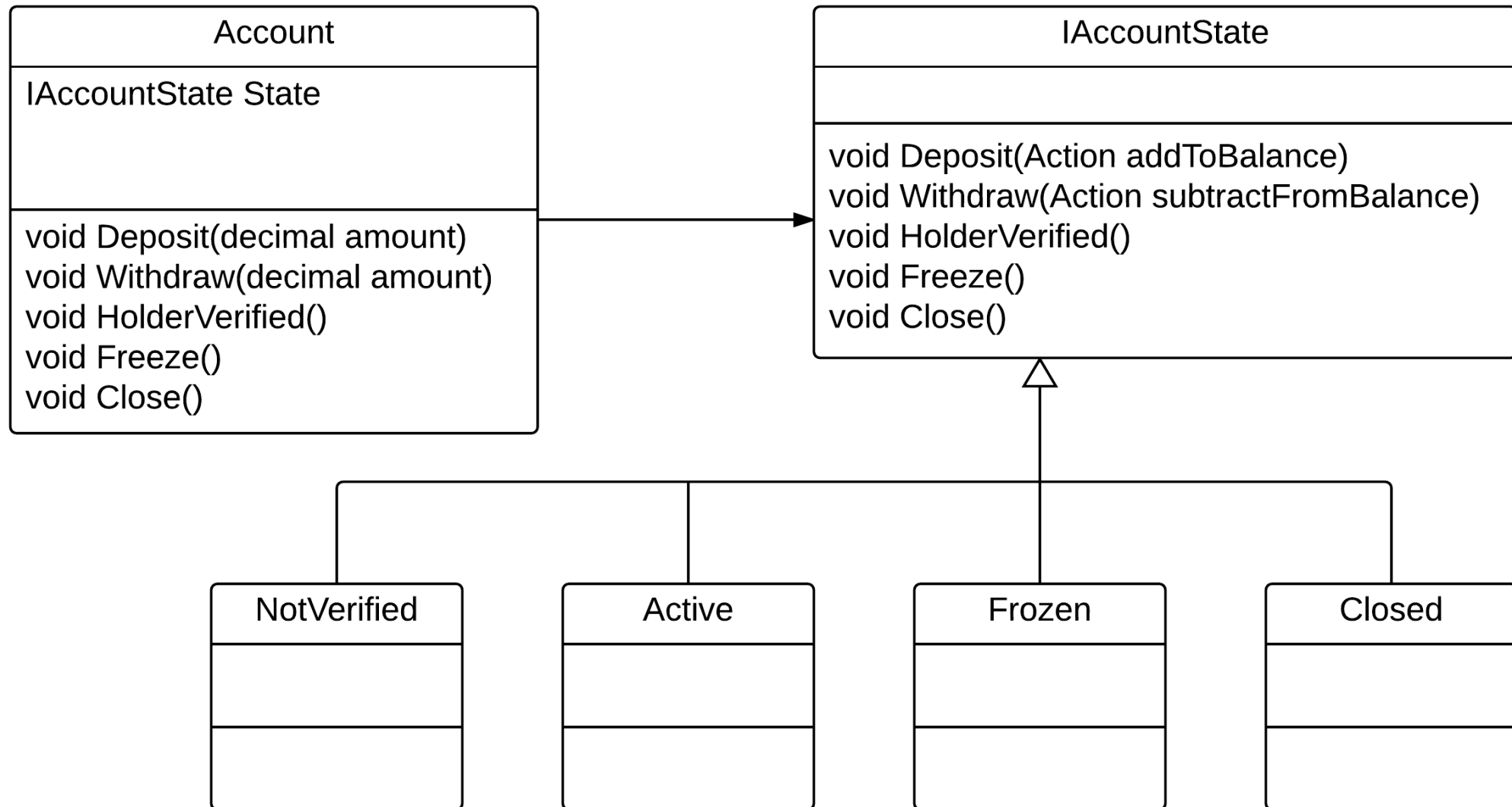
```
operationA(f)  
{  
    // ...  
    f();  
}
```

- ◀ **Let op.A call op.B at its end**
- ◀ **This implementation guarantees that op.B will always follow op.A**



Account
bool IsVerified bool IsClosed bool IsFrozen
void Deposit(decimal amount) void Withdraw(decimal amount) void HolderVerified() void Freeze() void Close()





# Summary



## Bad design

- A class which is doing everything itself
- This typically leads to if-then-else instructions everywhere

## Better design

- Move separate implementations to separate *state* classes
- Substitute the *state* object to substitute implementation

# Summary



## Benefits of the State pattern

- Class that uses states becomes simple
- It can focus on its primary role
- Other roles are delegated to concrete state classes
- Each concrete class is simple

Refer to *Tactical Design Patterns in .NET: Control Flow* course



***Next module -  
Dealing with loops  
and sequences***

