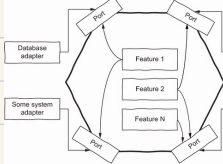


# Chapter 7. Designing for Testability

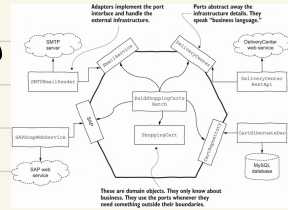
## 1. Infrastructure code vs domain code

domain → business rules, logic, entities, services

infrastructure → handles external dependency



hexagonal architecture  
port ≡ domain  
adapter ≡ infrastructure  
→ interface implementation



## 2. Dependency injection & Controllability

controllability → dependency injection

high-level modules (business) → independent of low-level modules

details (implementations) → should depend on abstractions (interfaces)

## 3. Observability

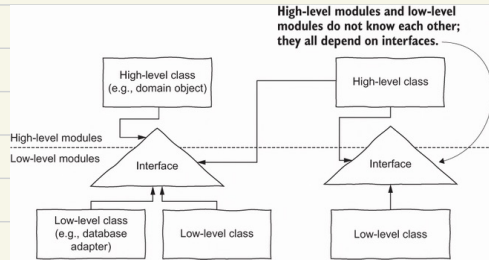
assert the behavior of the functionality

- Assertions facilitation methods

↳ field getters

- Void method observability

Mockito → Argument Captor → object assertions



## 4. Dependency - class constructor vs. method parameter

↳ easy stub

↳ implementation

complexity on this level

testing

complexity in higher level < still needs parameter

## 5. Testability

→ cohesion

→ coupling

→ complex conditions

→ private methods

→ static methods, singletons

→ hexagonal architecture