

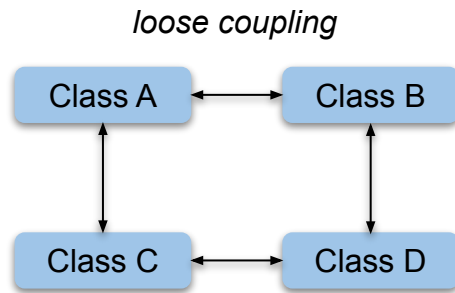
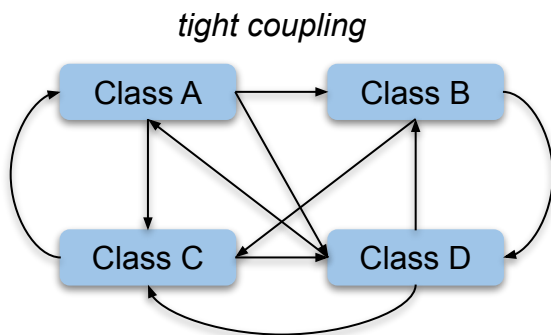
Design Patterns - Hallmarks of Good Architecture

What are the hallmarks of a good architecture?

1. **Loose Coupling** - weak knowledge association between components.
2. **Separation of Concerns** - breaking your architecture into tiers.
3. **Law of Demeter (LoD)**
4. **SOLID** Principles of object-oriented programming.

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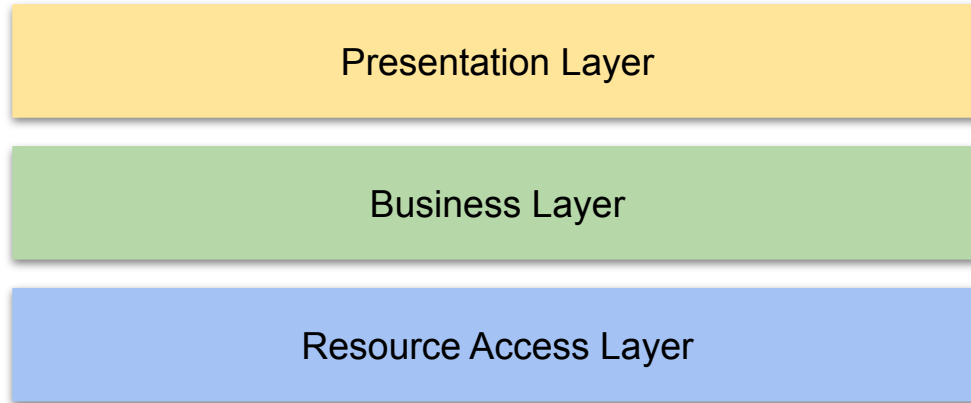
1. **Loose Coupling** - weak knowledge association between components.



Changes to one component least affect existence or performance of another component.

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2. **Separation of Concerns** - breaking you architecture into tiers.

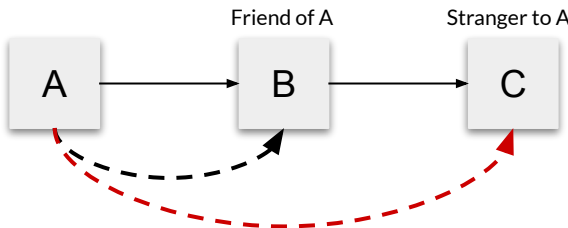


The separation of concerns is achieved using modularization, encapsulation and arrangement in software layers.

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3. Law of Demeter (LoD)

- a. Each unit should have only limited knowledge about other units: it should only know about units "closely" related to itself.
- b. Each unit should only talk to its friends; don't talk to strangers.
- c. Only talk to your immediate friends.



A given object should assume as little as possible about the structure or properties of anything else. It is also known as **Principle of Least Knowledge**.