Software Design

4 Rules of Simple Design

- Passes the tests
- Reveals intention
- No duplication
- Fewest elements

Question:

Composition or Inheritance?

Is you code SOLID?

- Single Responsibility Principle
- Open Closed Principle
- Liskov Substitution Principle
- Interface Segregation Principle
- Dependency Inversion Principle

Is you code SOLID?

- Principles:
 - Single Responsibility
 - Open Closed
 - Liskov Substitution
 - Interface Segregation
 - Dependency Inversion

YAGNI

You Ain't Gonna Need It!!

Law of Demeter

- Principle of Least Knowledge
 - Each unit should have only limited knowledge about other units: only units "closely" related to the current unit.
 - Each unit should only talk to its friends; don't talk to strangers.
 - Only talk to your immediate friends.

Can you GRASP it?

General Responsibility Assignment Software Patterns

- Controller
- Creator
- Indirection
- Information Expert
- High Cohesion

- Low Coupling
- Polymorphism
- Protected Variations
- Pure Fabrications