



Good design is often described in terms of design goals



Object Oriented Programming

Developers must learn **how** to achieve good object-oriented design



It is not enough to know the desired characteristics of the end product



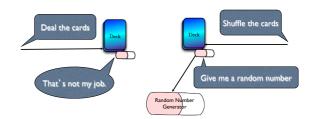
Developers need principles
- or rules of thumb to guide design decisions



Adopt a small set of simple rules to achieve good object-oriented design

Classes should be lazy

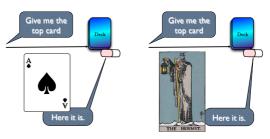
Remember these three simple rules



Classes should be antisocial



Derived classes should be conformist



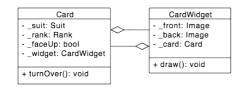
Three simple rules help to evaluate object-oriented designs

Is this class sufficiently lazy?



Classes should play a single role

Are these classes sufficiently antisocial?



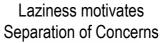
Classes should collaborate via abstractions

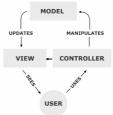
Is this derived class sufficiently conformist?



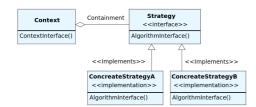
Use inheritance and polymorphism wisely

Three simple rules guide the application of OOP principles and paradigms

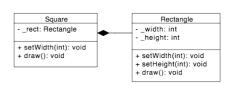




Unsociability promotes the use of Abstractions and Interfaces



Conformity guides the use of Inheritance and Polymorphism



Will you be able to apply these rules to achieve better object-oriented designs?

It is difficult to write good software without some practical guidelines

Adopt a small set of simple rules to achieve good object-oriented design

Classes should be lazy, antisocial, and conformist

This Week's Tasks

Good design leads to less work

Pass Task 14: Case Study