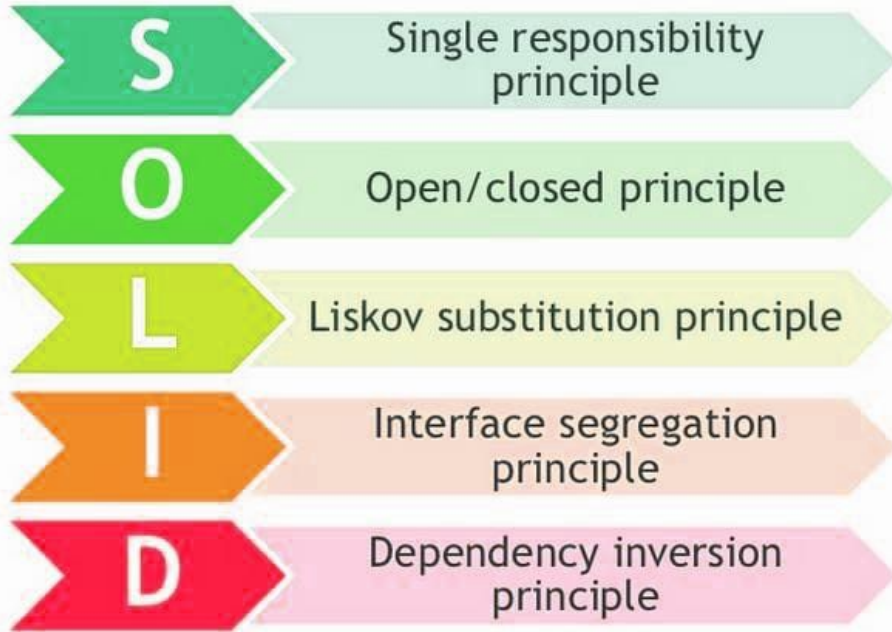
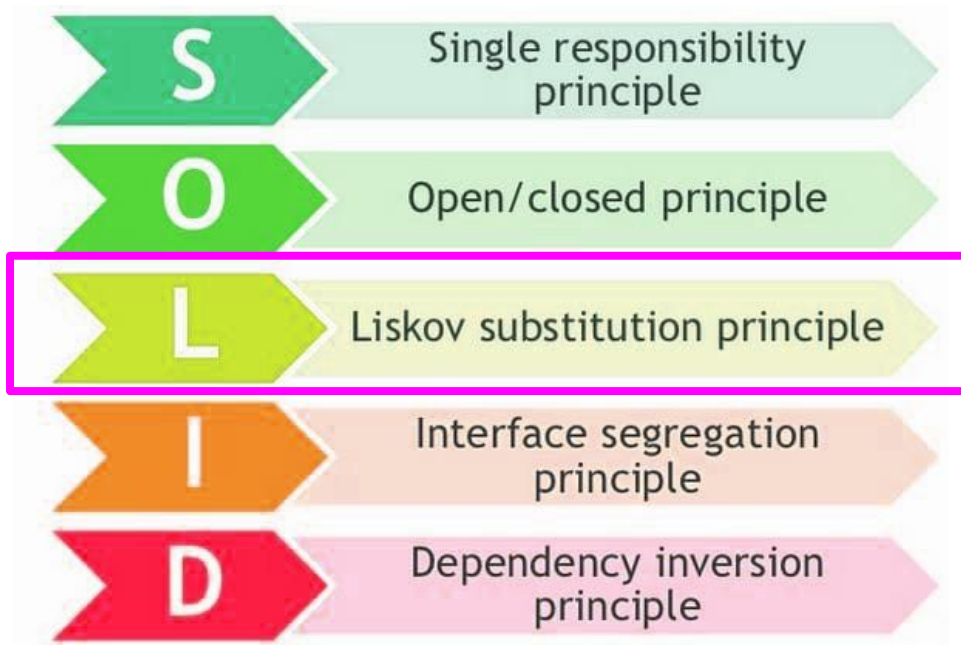


SOLID principles



SOLID principles



If S is a subtype of T, then
objects of type T may be
replaced by objects of type S,
without disrupting the
program

LSP benefits

- Client code can use any subtypes of a class interchangeably
- Client is isolated from the class hierarchy of the objects it uses

LSP violation problems

- Client depends on concrete implementations
- If a subtype changes, client must be changed

A classical marble statue of a man, likely representing a deity or philosopher, holding a large globe. The statue is positioned in the center of the image. The background shows an interior space with a doorway and a wall. The text "Open-Closed Principle" is overlaid in the upper right, and "Liskov Substitution Principle" is overlaid in the lower left.

**Open-Closed
Principle**

**Liskov
Substitution
Principle**

Spotting LSP violations

- Do subtypes' methods have different signatures?
- Do subtypes' methods have different argument types?