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SOLID Design Principles In Common Lisp

Learn how to apply SOLID design principles with Common Lisp and the powerful CLOS system.



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Let's Go!

What is SOLID?

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

S: Single Responsibility

A class should have one, and only one, reason to change.

Bad

O: Open/Closed

 $Software\ entities\ (classes,\ modules,\ functions,\ etc)\ should\ be\ open\ for\ extension,\ but\ closed\ for\ modification.$

L: Liskov Substitution

Let $\Phi(x)$ _be a property provable about objects _x _of type _T. Then $\Phi(y)$ _should be true for objects _y _of type _S _where _S _ is a subtype of _T.

L: Interface Segregation

Clients should not be forced to depend upon interfaces that they do not use.

D: Dependency Inversion

- High level modules should not depend upon low level modules. Both should depend upon abstractions.
- Abstractions should not depend upon details. Details should depend upon asbtractions.