

# Liskov Substitution Principle C

## Liskov substitution principle

The Liskov substitution principle (LSP) is a particular definition of a subtyping relation, called strong behavioral subtyping, that was initially introduced...

## Barbara Liskov

abstract data types and the accompanying principle of data abstraction, along with the Liskov substitution principle, which applies these ideas to object-oriented...

## SOLID (redirect from SOLID principle)

ISBN 978-0135974445. "Open/Closed Principle" (PDF). objectmentor.com. Archived from the original on 5 September 2015. "Liskov Substitution Principle" (PDF). objectmentor...

## Circle–ellipse problem

programming (OOP). By definition, this problem is a violation of the Liskov substitution principle, one of the SOLID principles. The problem concerns which subtyping...

## Open–closed principle

In object-oriented programming, the open–closed principle (OCP) states "software entities (classes, modules, functions, etc.) should be open for extension...

## Single-responsibility principle

that requires a change in the module. Robert C. Martin, the originator of the term, expresses the principle as, "A class should have only one reason to...

## Composition over inheritance (redirect from Composite reuse principle)

programmers do with inheritance in Java" Delegation pattern Liskov substitution principle Object-oriented design Object composition Role-oriented programming...

## Dependency inversion principle

the dependency inversion principle is a specific methodology for loosely coupled software modules. When following this principle, the conventional dependency...

## Covariant return type

types is usually one which allows substitution of the one type with the other, following the Liskov substitution principle. This usually implies that the...

## **Covariance and contravariance (computer science) (category Articles with example C Sharp code)**

proposing this use of inheritance, the Eiffel designers reject the Liskov substitution principle, which states that objects of subclasses should always be less...

## **Interface segregation principle**

February 2021 &quot;This principle was first defined by Robert C. Martin&quot;. Robert C. Martin, The Interface Segregation Principle, C++ Report, June 1996 Principles...

## **Index of object-oriented programming articles (category Articles with example C++ code)**

Interaction diagram Interface Inversion of control (IoC) Iterator Late binding Liskov substitution principle Member accessibility Members, any contents of a...

## **Object-oriented programming**

concept is known as behavioral subtyping, more specifically the Liskov substitution principle. However, this is often not true, especially in programming...

## **Polymorphism (computer science) (category Articles with example C Sharp code)**

belongs to a type S that is a subtype of T (according to the Liskov substitution principle). This type relation is sometimes written  $S \leq T$ . Conversely...

## **Class-based programming**

the principle of subtyping, known as the Liskov substitution principle, does not hold. Barbara Liskov and Jeannette Wing formulated the principle succinctly...

## **Subtyping (section C++)**

programming. In this context, the principle of safe substitution is often called the Liskov substitution principle, after Barbara Liskov who popularized it in a...

## **Evaluation strategy**

similar to call by name, but uses textual substitution rather than capture-avoiding substitution. Macro substitution may therefore result in variable capture...

## **Code smell**

base class is not honored by the derived class, violating the Liskov substitution principle.[citation needed]  
Excessive use of literals or magic numbers:...

## **Inheritance (object-oriented programming)**

used in a context where the parent class is expected; see the Liskov substitution principle. (Compare connotation/denotation.) In some OOP languages, the...

## Abstract data type

type Initial algebra Liskov substitution principle Type theory Walls and Mirrors &quot;Reading 10: Abstract Data Types&quot;, MIT. Liskov & Zilles 1974. Ehrig,...

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