

[Java] Polymorphism

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[Java] Polymorphism

Polymorphism is a concept in Java that allows objects of different classes to be treated as objects of a common superclass. This is achieved through inheritance and method overriding. In this chapter, we will explore how polymorphism works in Java and how it can be used to write more flexible and reusable code.

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(polymorphism)

Java Polymorphism

Polymorphism means “many forms”, and it occurs when we have many classes that are related to each other by inheritance.

- (Polymorphism) “ ” , (inheritance)

Like we specified in the previous chapter; Inheritance lets us inherit attributes and methods from another class. Polymorphism uses those methods to perform different tasks. This allows us to perform a single action in different ways.

- (methods) , (Inheritance) (attributes)
- (Polymorphism)

For example, think of a superclass called Animal that has a method called animalSound(). Subclasses of Animals could be Pigs, Cats, Dogs, Birds And they also have their own implementation of an animal sound (the pig oinks, and the cat meows, etc.):

- animalSound() 가 Animal

polymorphism, (: . poly(), morph()) (多形性) (種) 가

Polymorphism

Polymorphism is the presentation of one interface for multiple data types.

- (Polymorphism)

For example, integers, floats, and doubles are implicitly polymorphic: regardless of their different types, they can all be added, subtracted, multiplied, and so on.

- integers(), floats(, 7), doubles(15~16) 가 :
- 가

In the case of OOP, by making the class responsible for its code as well as its own data, polymorphism can be achieved in that each class has its own function that (once called) behaves properly for any object.

- OOP (Object-Oriented Programming,) , 가
- 가 () function 가

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