

Java for beginners

this and super



Saurabh Shukla (MySirG)

Agenda

- ① this
- ② super

this

The this object reference is a local variable in instance member methods referring the caller object.

this keyword is used as a reference to the current object which is an instance of the current class.

The `this` reference to the current object is useful in situations where a local variable hides or shadows a field with same name.

If a method needs to pass the current object to another method, it can do so by using the `this` reference.

Note that the `this` reference cannot be used in a static context, as static code is not executed in the context of any object.

Super

The keyword super also references the current object, but as an instance of the current class's super class.

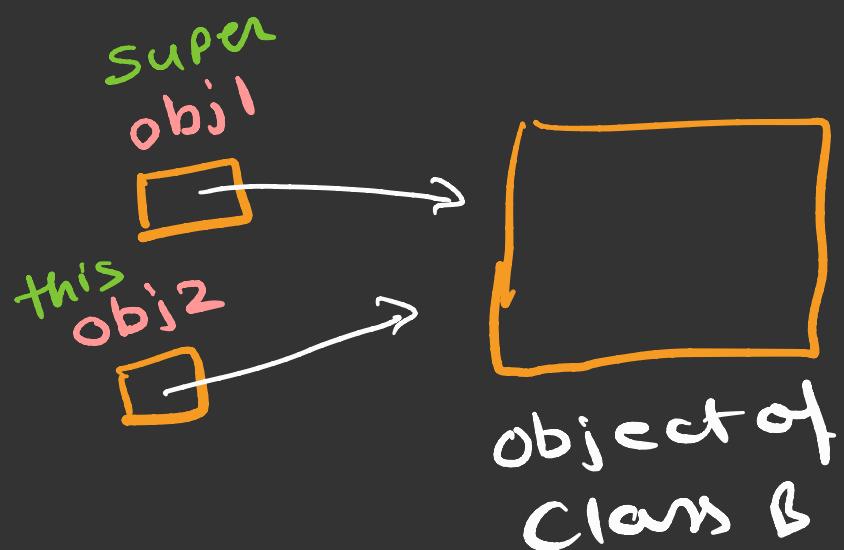
The keyword super can be used to resolve name conflict between superclass and subclass.

class A {

}

class B extends A {

}



A obj1 = new B(); ✓

obj1. ↗

can call only
methods of class A and
overridden methods of
class B.

B obj2 = (B) obj1 ;

obj2. ↗

can call methods of
class B and class A.

this → To resolve name conflict
between local and instance
members

Super → To resolve name conflict
between Super class member
and subclass member.

super is available only in instance member methods of child class.