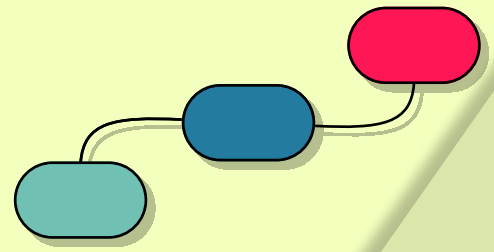


INHERITANCE & POLYMORPHISM



WHAT? WHAT? WHAT? WHAT? WHAT? WHAT?

IN-HER-IT-ANCE /in'herədəns/

A mechanism in which one object acquires all the properties and behaviors of a parent object

POL-Y-MOR-PHISM /pālē'môrfizəm/

A concept by which we can perform a single action in different ways

WHAT? WHAT? WHAT? WHAT? WHAT? WHAT?

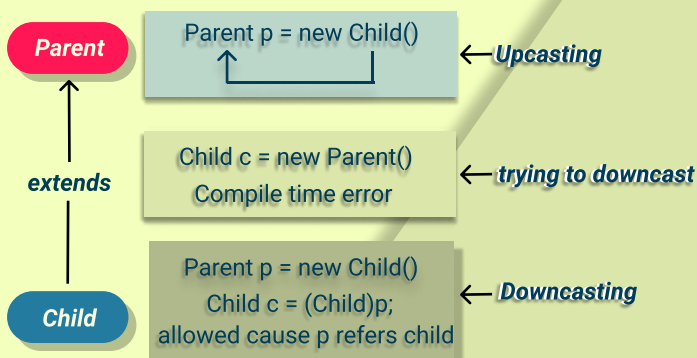
OVERRIDING

Form of polymorphism to bind method from the subclass in response to a method call from subclass object referenced by superclass type.

Same method name and parameter

```
class Dog{  
    public void bark(){  
        System.out.println("woof ");  
    }  
}  
class Hound extends Dog{  
    public void sniff(){  
        System.out.println("sniff ");  
    }  
    public void bark(){  
        System.out.println("bowl");  
    }  
}
```

```
public class OverridingTest{  
    public static void main(String [] args){  
        Dog dog = new Hound();  
        dog.bark(); // bowl  
    }  
}
```



If the reference variable of superclass refers to the object of subclasses

UPCASTING

DOWNCASTING

Casting down the inheritance hierarchy from a superclass to a subclasses



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