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Difference between method overloading and method overriding in java

There are many differences between method overloading and method overriding in java. A list of differences between method overloading and method overriding are given below:

No.	Method Overloading	Method Overriding
1)	Method overloading is used <i>to increase the readability</i> of the program.	Method overriding is used <i>to provide the specific implementation</i> of the method that is already provided by its super class.
2)	Method overloading is performed <i>within class</i> .	Method overriding occurs <i>in two classes</i> that have IS-A (inheritance) relationship.
3)	In case of method overloading, <i>parameter must be different</i> .	In case of method overriding, <i>parameter must be same</i> .
4)	Method overloading is the example of <i>compile time polymorphism</i> .	Method overriding is the example of <i>run time polymorphism</i> .
5)	In java, method overloading can't be performed by changing return type of the method only. <i>Return type can be same or different</i> in method overloading. But you must have to change the parameter.	<i>Return type must be same or covariant</i> in method overriding.

Java Method Overloading example

```
class OverloadingExample{  
    static int add(int a,int b){return a+b;}  
    static int add(int a,int b,int c){return a+b+c;}  
}
```

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Overriding example

```
class Animal{  
    void eat(){System.out.println("eating...");}  
}  
class Dog extends Animal{  
    void eat(){System.out.println("eating bread...");}  
}
```

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