

# Java

## Abstract

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Java-Kurs

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# Abstract Class

The keyword **abstract** denotes an abstract class.

```
1 public abstract class AbstractExample {  
2  
3 }  
4
```

- You can not create objects from an abstract class.
- Abstract classes can extend other abstract classes and can implement interfaces <sup>1</sup>.
- Abstract classes can be extended by normal and abstract classes.

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<sup>1</sup>Interfaces will be discussed later

# Methods

An abstract class may has concrete methods and may has abstract methods.

```
1  public abstract class AbstractExample {  
2  
3      public void printHello() {  
4          System.out.println("Hello");  
5      }  
6  
7      public abstract String getName();  
8  }  
9
```

An abstract method forces the class to be abstract as well.

# Subclasses

The subclass has to implement abstract methods or has to be abstract as well. All concrete methods will be regular inherited.

```
1 public class Example extends AbstractExample {  
2  
3     @Override  
4     public String getName() {  
5         return "Example";  
6     }  
7 }  
8
```

# Why using Abstract?

Abstract classes are used to minimize similar code in related classes.