Java

Abstract

FSR Informatik

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Java-Kurs

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 [1].
- Abstract classes can be extended by normal and abstract classes.

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[1]Interfaces will be discussed later

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

```java
public abstract class AbstractExample {

    public void printHello() {
        System.out.println("Hello");
    }

    public abstract String getName();
}
```

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

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

```java
public class Example extends AbstractExample {

    @Override
    public String getName() {
        return "Example";
    }
}

```

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