



Amit Shekhar

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Learn Kotlin - Data Class



Data Class

We frequently create a class to do nothing but hold data. In such a class some standard functionality is often mechanically derivable from the data. In Kotlin, this is called a *data class* and is marked as `data`.

Example

In Java

```
private String name;
private int age;

public Developer(String name, int age) {
    this.name = name;
    this.age = age;
}

public String getName() {
    return name;
}

public void setName(String name) {
    this.name = name;
}

public int getAge() {
    return age;
}

public void setAge(int age) {
    this.age = age;
}

@Override
public boolean equals(Object o) {
    if (this == o) return true;
    if (o == null || getClass() != o.getClass()) return false

    Developer developer = (Developer) o;

    if (age != developer.age) return false;
    return name != null ? name.equals(developer.name) : deve

}

@Override
public int hashCode() {
    int result = name != null ? name.hashCode() : 0;
    result = 31 * result + age;
}
```

```
        return "Developer{" +  
            "name='" + name + '\'' +  
            ", age=" + age +  
            "'}";  
    }  
}
```

In Kotlin

```
data class Developer(val name: String, val age: Int)
```

When we mark a class as a *data* class, you don't have to implement or create the following functions like we do in Java.

- hashCode()
- equals()
- toString()
- copy()

The compiler automatically create these internally, so it also leads to clean code.

Although, there are few requirements that data classes need to fulfil:

- The primary constructor needs to have at least one parameter.
- All primary constructor parameters need to be marked as `val` or `var`
- Data classes cannot be abstract, open, sealed or inner.

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