**Java 8 - Default Methods**

Java 8 introduces a new concept of default method implementation in interfaces. This capability is added for backward compatibility so that old interfaces can be used to leverage the lambda expression capability of Java 8.

For example, ‘List’ or ‘Collection’ interfaces do not have ‘forEach’ method declaration. Thus, adding such method will simply break the collection framework implementations. Java 8 introduces default method so that List/Collection interface can have a default implementation of forEach method, and the class implementing these interfaces need not implement the same.

## **Syntax**

public interface vehicle {

default void print() {

System.out.println("I am a vehicle!");

}

}

## **Multiple Defaults**

With default functions in interfaces, there is a possibility that a class is implementing two interfaces with same default methods. The following code explains how this ambiguity can be resolved.

**Illustration**

*Having no default method inside the interface*

|  |  |  |
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| **Screen Clipping** | **Screen Clipping** | **Screen Clipping** |
| **Vehicle.java** | **Fourwheelers.java** | **Car.java**  (got an error for no implementation) |

***Having default method inside the interface*** *: that allows to access those classes from main also, and never crashes:*

|  |  |  |  |
| --- | --- | --- | --- |
| Screen Clipping | Screen Clipping | Screen Clipping | Screen Clipping |
| **Main.java**  **Output:**  from vechile  from fourwheelers | **Vehicle.java** | **Fourwheelers.java** | **Car.java**  (implements both interfaces, but never implements ant method related to it) |

***Having default method inside the interface:*** *you can also override it*

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| **Main.java**  **Output:**  from car to vehicle  from car | **Vehicle.java** | **Fourwheelers.java** | **Car.java**  (implements both interfaces, also implements method as override) |