

# Wrapper Classes

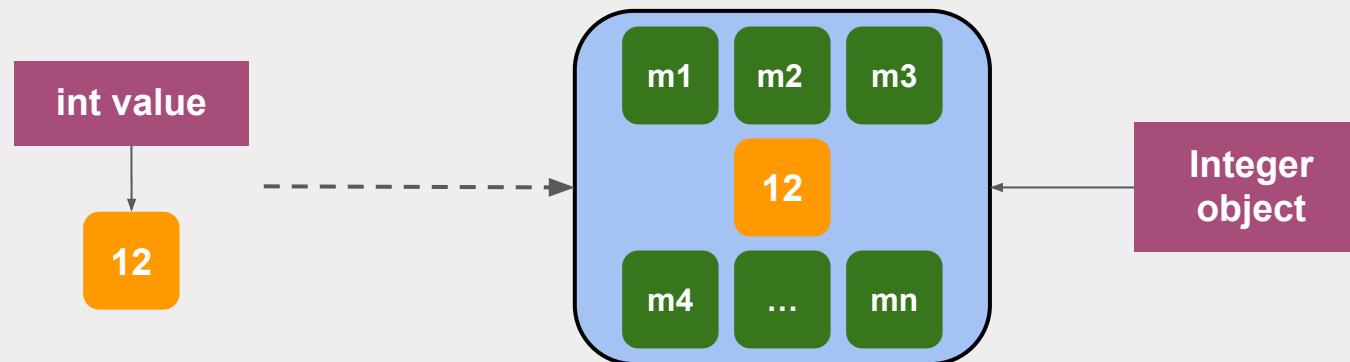
# What is Wrapper Class

A class that wraps a primitive data type into an object is called wrapper class in java.

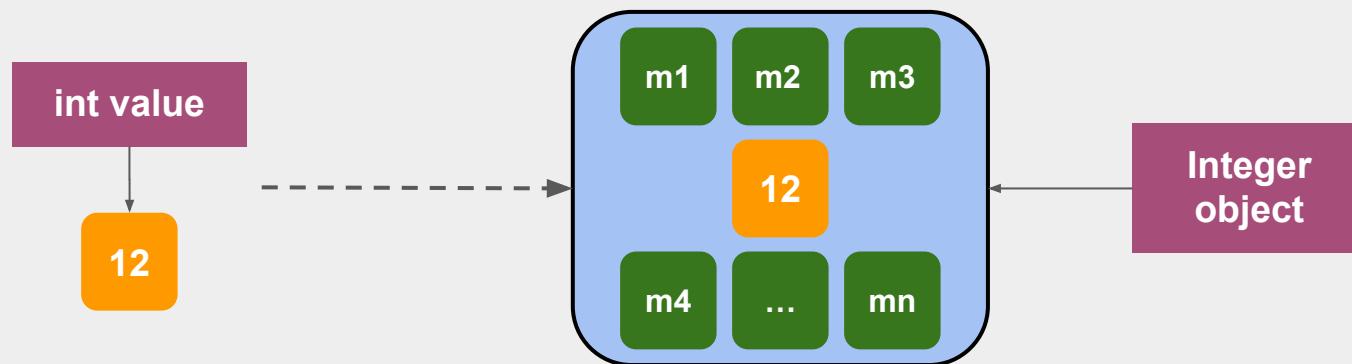
In simple words, wrapper class provides a mechanism to convert primitive data type value into an object and vice-versa.

For example, wrapping int into Integer class, wrapping double into Double class, and wrapping char into Character class.

When we create an object of wrapper class, it contains a variable where we store the primitive data type value. In simple words, we can wrap a primitive type value into a wrapper class object.

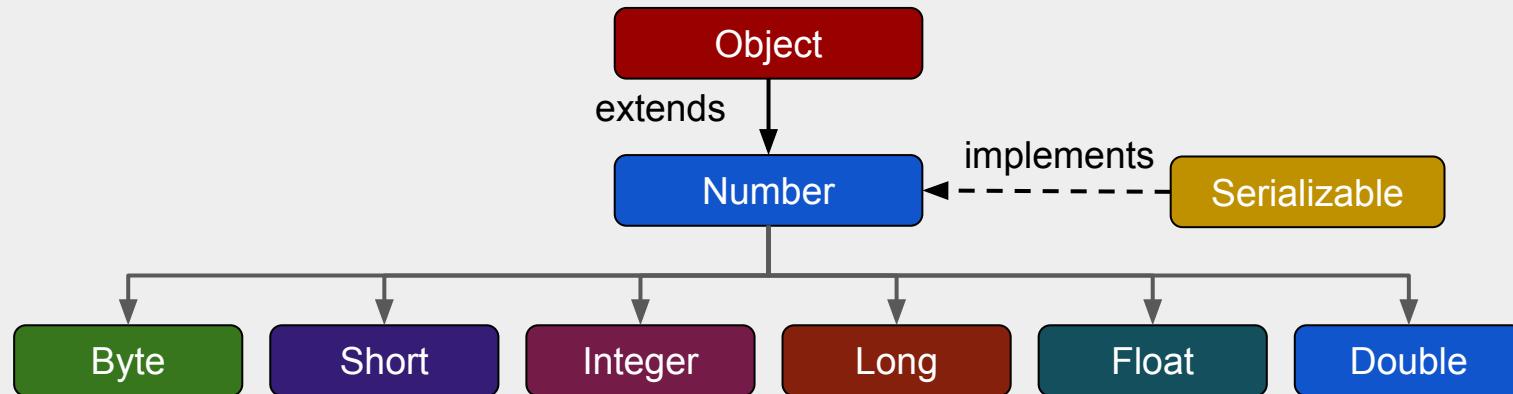


# Why Wrapper Class needed



# What is Number Class

Number class in Java is an abstract class that is the superclass of Byte, Short, Integer, Long, Float, and Double classes. The Byte, Short, Integer, Long, Float, and Double classes are the most commonly used wrapper classes that represent numeric values. All the numeric type wrappers inherit from abstract class Number. Java Number class and its subclasses are present in **java.lang package**. Since **Java 1.0**



## What is Byte Class

Byte class in Java is a wrapper class that wraps (converts) a value of primitive data type into an object. In simple words, a Byte is a wrapper around a byte. An object of Byte class contains a **single byte type field**. In this field, we can store a primitive type byte value. Note that the range of byte is from -128 to +127. Byte class was introduced in **JDK 1.1**. It is present in **java.lang.Byte** package.

## What is Short Class

Short class in Java is a wrapper class that wraps (converts) a value of primitive data type “short” in an object. In simple words, a Short is a wrapper around a short. An object of Short class contains a **single field of type short**. In this field, we can store a short number. Short class was introduced in **JDK 1.1**. It is present in **java.lang.Short** package.

## What is Integer Class

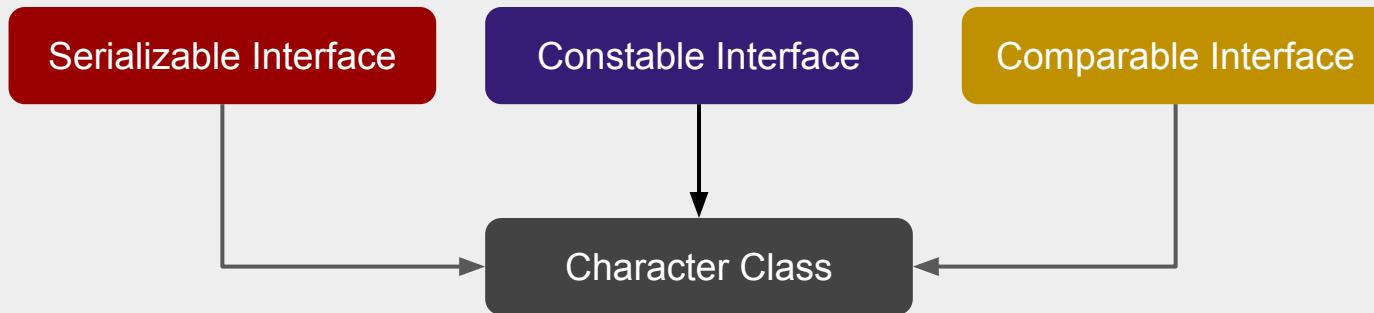
Integer class in Java is a wrapper class that wraps (converts) a value of primitive data type “int” in an object. In simple words, an Integer is a wrapper around an int. An object of Integer class contains a **single field of type int**. In this field, we can store a primitive int value.  
Integer class was introduced in **JDK 1.0**. It is present in **java.lang.Integer** package.

## What is Long Class

Long class in Java is a wrapper class that wraps (converts) a value of primitive data type “long” in an object. In simple words, an Integer is a wrapper around a long. An object of Long class contains a **single field of type long**. In this field, we can store a primitive long value. Long class was introduced in **JDK 1.0**. It is present in **java.lang.Long** package.

# What is Character Class

The Character class wraps a value of the primitive type char in an object. An object of type Character contains a **single field whose type is char**. In addition, this class provides several methods for determining a character's category (lowercase letter, digit, etc.). Character class was introduced in **JDK 1.0**. It is present in **java.lang.Character** package.



## What is Float Class

Float class in Java is a wrapper class that wraps (converts) a value of primitive data type “float” in an object. An object of Float class contains a **single float type field** that store a primitive float number. Float class was introduced in **JDK 1.0**. It is present in **java.lang.Float** package.

## What is Double Class

Double class in Java is a wrapper class that wraps (converts) a value of primitive data type “double” in an object. An object of Double class contains a **single field of type double**. In this field, we can store a primitive double number. Double class was introduced in **JDK 1.0**. It is present in **java.lang.Double** package.

# What is Boolean Class

Boolean class in Java is a wrapper class that wraps (converts) a primitive “boolean” data type value in an object. An object of Boolean class contains a **single boolean type field** where we can store a primitive boolean value. Boolean class was introduced in **JDK 1.0**. It is present in **java.lang.Boolean** package.

## Interview Questions