

# Java Data Types

Topics : [JAVA](#)

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A data type in Java represents the size and different values that can be stored in a variable. A Java data type is a set of values and operations defined on those values.

There are two types of data types in Java

- **Non-primitive data types**
- **Primitive data types**

## 1. Non-primitive data types :

Non-primitive data types are as follows

- **Arrays**
- **Classes**

## 2. Primitive data types :

Primitive data types are as follows

- byte
- short
- int
- long
- float
- double
- boolean
- char

Data Type	Size	Stores Value
byte	1 byte	from -128 to 127
short	2 bytes	-32,768 to 32,767
int	4 bytes	-2,147,483,648 to 2,147,483,647
long	8 bytes	-9,223,372,036,854,775,808 to 9,223,372,036,854,775,807
float	4 bytes	6 to 7 decimal digits
double	8 bytes	15 decimal digits
boolean	1 bit	true or false values
char	2 bytes	single character/letter or ASCII values

**Syntax :**

data type variable [ = value][, variable [ = value] ...] ;

**Example :**

```
int p, q, r; // Declares three integer p, q, and r.  
int l = 10, m = 10; // Example for initialization value  
byte C = 22; // initializes a byte type variable C.  
double a = 5.56; // declares and assigns a value of a.  
char a = 'a'; // the char variable a its initialized with value 'a'
```

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