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Java Data Types

As explained in the previous chapter, a variable in Java must be a specified data type:

Example

Try it Yourself »

Data types are divided into two groups:

- Primitive data types includes byte, short, int, long, float, double, boolean and char
- Non-primitive data types such as <u>String</u>, <u>Arrays</u> and <u>Classes</u> (you will learn more about these in a later chapter)





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A primitive data type specifies the size and type of variable values, and it has no additional methods.

There are eight primitive data types in Java:

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

Test Yourself With Exercises

Exercise:

Add the correct data type for the following variables:





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```
myLetter = 'A';
  myBool = false;
myText = "Hello World";
```

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