

Java Type Casting

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Java Type Casting

Type casting is when you assign a value of one primitive data type to another type.

In Java, there are two types of casting:

- **Widening Casting** (automatically) - converting a smaller type to a larger type size
`byte -> short -> char -> int -> long -> float -> double`
- **Narrowing Casting** (manually) - converting a larger type to a smaller size type
`double -> float -> long -> int -> char -> short -> byte`

Widening Casting

Widening casting is done automatically when passing a smaller size type to a larger size type:

Example

```
public class Main {  
    public static void main(String[] args) {
```

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HTML

CSS



```
        System.out.println(myInt);        // Outputs 9
        System.out.println(myDouble);    // Outputs 9.0
    }
}
```

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Narrowing Casting

Narrowing casting must be done manually by placing the type in parentheses in front of the value:

Example

```
public class Main {
    public static void main(String[] args) {
        double myDouble = 9.78d;
        int myInt = (int) myDouble; // Manual casting: double to int

        System.out.println(myDouble); // Outputs 9.78
        System.out.println(myInt);    // Outputs 9
    }
}
```

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