

Java Primitive Types



Indicates widening conversion

```
int myInt = 8;
long myLong = myInt;
```



boolean	char	byte	short	int	long	float	double
≤1 byte	2 bytes	1 byte	2 bytes	4 bytes	8 bytes	4 bytes	8 bytes
true, false	0 to +65,535	-128 to +127	-32,768 to +32,767	-2,147,483,648 to +2,147,483,647	-9,223,372,036,854,775,808 to +9,223,372,036,854,775,807	-3.4E+38 to +3.4E+38	-1.7E+308 to +1.7E+308
Boolean	Character	Byte	Short	Integer	Long	Float	Double

All primitive types have a corresponding wrapper type.

Explicit boxing

```
int val = 10;
Integer wrappedVal = Integer.valueOf(val);
```

Auto-boxing

```
int val = 10;
Integer wrappedVal = val;
```

Explicit unboxing

```
Integer wrappedVal = Integer.valueOf(10);
int anotherVal = wrappedVal.intValue();
```

Auto-unboxing

```
Integer wrappedVal = Integer.valueOf(10);
int anotherVal = wrappedVal;
```