

# Java data types

## 1. Integer data types (showing max value)

byte 

127
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 (8 bits)

short 

32,767
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 (16 bits)

int 

2,147,483,647
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 (32 bits)

long 

9,223,372,036,854,775,808
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 (64 bits)

## Representation in various bases

1000 100 10 1  

		2	5
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**Decimal** (base 10)

512 64 8 1  

		3	1
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**Octal** (base 8) where decimal 25 is octal 031

4096 256 16 1  

		1	9
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**Hex** (base 16) where decimal 25 is hex 0X19

## 2. Real data types

float 

3.40282347E38
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double 

1.79769313486231570E308
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## 3. Text data (character type and String class)

char 

'a'
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String 

"Hi mom. How are you? I'm fine."
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## 4. Logical data (boolean)

boolean 

true
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