

Types in java

Primitive types in Java

- Basic datatype in Java
- Building block in Java
- Serve one purpose - store simple values
- Come with predefined (not extensible) operations

Primitive types in Java

int

-2,147,483,648 through +2,147,483,647

32 bits

defaults to 0 (except for local variables)

Primitive types in Java

byte

-128 through +127

8 bits

defaults to 0 (except for local variables)

Primitive types in Java

short

-32,768 through +32,767

16 bits

defaults to 0 (except for local variables)

Primitive types in Java

long

-9,223,372,036,854,775,808 through
+9,223,372,036,854,775,807

64 bits

defaults to 0 (except for local variables)

Primitive types in Java

float

$\pm 1.401298E-45$ through $\pm 3.402823E+38$

32 bits

defaults to 0.0f (except for local variables)

Primitive types in Java

double

$\pm 4.94065645841246E-324$ through
 $\pm 1.79769313486232E+308$

64 bits

defaults to 0.0 (except for local variables)

Primitive types in Java

boolean

true or false

1 bit

defaults to false (except for local variables)

Primitive types in Java

char

'\u0000' through '\uFFFF'

Could use 'a'

16 bits

defaults to '\u0000' (except for local variables)