

Store
Simple Values

Primitive
(8 data types)

byte
short
int
long
float
double
char
boolean

Data Types In Java

{ Wrapper Classes }

(JVM)

auto-boxing

P → W

→ (Boxing)

P ← W

unboxing

JVM

Byte
Short

Integer
Long

Float

Double

Character

Boolean

(Complex Objects)
Non-Primitive

Reference

String

Date

ArrayList

etc

etc

Operators :-

I Arithmetic Operators :- +, -, /, *, % // **

II Assignment Operators :- =, +=, -=, /=, *=, %=

[* Augmented] [* Shorthand]

C/C++ Java

Python

a = 5

a = a + 10

a += 10

{ // =
** = }

shorthand

III Relational (Comparison Operators: >, <, >=, <=, (result == boolean T/F) ==, !=

IV Logical Operators : && (and) || (or) ! (not) → Python

V Ternary Operator : (Shorthand if-else)

C/C++ (Condition) ? tv : fv;

Java data-type val-name = (condition) ? tv : fv;
(matching data types)

VI Unary Operators (Prefix | Postfix) (++ / --) :-
(Increment / Decrement)