



Name: Diego Portilla

Race: Software

NRC: 3682

Theme: Primitive data limits

Teacher's name: Edison Lascano

what is a primitive data?

The original data types of a programming language are called primitive or elementary types, that is, those that the language provides us and with which we can (sometimes) build abstract data types and data structures.

Generally examples of primitive types are:

- Char (Character)
- Int (Integer)
- Float (Real - Float point)

Python primitive data._

Tipos de Datos	Memoria que ocupa	Rango de valores
boolean	1 byte	0 o 1 (True o False)
byte / unsigned char	1 byte	0 – 255
char	1 byte	-128 – 127
int	2 bytes	-32.768 – 32.767
word / unsigned int	2 bytes	0 – 65.535
long	2 bytes	-2.147.483.648 – 2.147.483.647
unsigned long	4 bytes	0 – 4.294.967.295
float / double	4 bytes	-3,4028235E+38 - 3,4028235E+38
string	1 byte + x	Array de caracteres
array	1 byte + x	Colección de variables

Java primitive data._

VARIABLES DE TIPOS PRIMITIVOS.					
Nombre	Tipo	Tamaño	Valor por defecto	Forma de inicializar	Rango
Boolean	Lógico	1 bit	False	Boolean a=true	True-false
Char	Carácter	16 bits	Null	Char a='Z'	Unicode
Byte	Numero entero	8 bits	0	Byte a =0	-128 a 127
Short	Numero entero	16 bits	0	Short a =12	-32.768 a 32.767
Int	Numero entero	32 bit	0	Int a= 1250	-2.147.483.648 a 2.147.483.649
Long	Numero entero	64 bits	0	Long a= 125000	-9*10 ¹⁸ a 9*10 ¹⁸
Float	Numero real	32 bits	0	Float a =3.1	-3,4*10 ³⁸ a 3,4*10 ³⁸
Double	Numero real	64 bits	0	Double a = 125.2333	-1,79*10 ³⁰⁸ a 1,79*10 ³⁰⁸

Casting Constructor._

Casting is the term used to describe the act of changing data types. For example;
Number of

```
string = "12345";
```

```
int real_int;
```

```
real_int = (int) number; << this is converting a string to an int
```

The default constructor is a method that the developer defines as a no-argument constructor or that the compilation inserts for each java class (as a no-argument constructor) that does not have a defined constructor.

```
public class apu ()  
{  
    public apu () {<< default constructor  
    // implicit call to super ();  
    // constructor stuff  
}  
}
```

If a constructor method is defined with arguments, the default value

The compiler does not add the constructor and it will need to be coded by the developer if it is to be used.

Bibliography:

<https://coderanch.com/t/386935/java/Casting-constructor>

<https://pythondiario.com/2014/12/tipos-de-datos-en-python.html>