"UNIVERSIDAD DE LA FUERZAS ARMADAS – ESPE" OBJECT-ORIENTED PROGRAMMING



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Race: Software

Theme: Primitive data limits

Definition of primitive data type

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

¿What is a primitive data in Java?

java defines the data type of the variable when defining it. That is why all variables will have a data type assigned.

The Java language is based on a series of primitive data types.

- byte
- short
- int
- long
- float
- double
- boolean
- char

-128, 127, 8 bits
-32768, 32767, 16 bits
-2 ³¹ , 2 ³¹ -1, 32 bits
-2 ⁶³ , 2 ⁶³ -1, 64 bits
Coma, 32 bits
Coma, 64 bits
True or false, 1 bit
Caracter of 16 bits

	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		

¿What is a primitive data in Python?



In Python we can find different types of data with different characteristics and classifications.

The basic Python data types are Boolean, numeric (integer, floating point, and complex), and character strings.

Sequences: The list, tuple and range typesMaps: The dict type

Sets: The set type

Iterators

Lessons

Instances

Exceptions

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	string 1 byte + x Array de		
array	1 byte + x	Colección de variables	

Bibliography:

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http://dis.um.es/~lopezquesada/documentos/IES_1213/IAW/curso/UT3/ActividadesAlumnos/8/index.html#:~:text=primitivas%20en%20Aprenderaprogramar-,Datos%20primitivos,que%20no%20necesitan%20ser%20declarados.