

NumPy Data Types

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****In Numpy there is extra data types than normal Python**

i—>integer(int8,int16,int32,int64)

b—>boolean

u—>unsigned integer(uint8,uint16,uint32,uint64)

f—>float(float16,float32,float64)

c—>complex(complex64,complex128)

s—>string

U—>unicode string

M—>datetime

etc

By default int = int32 By default float = float64

Note : int8 requires less memory then int32

0.1 int8:

value will be repressed by 8 bits Most Significant Bit(MSB) that means 1st value is reserved for sign the range -128 to 127

0.2 int16:

value will be repressed by 16 bits MSB is reserved for sign the range -32768 to 32768

0.3 int32:

value will be repressed by 32 bits MSB is reserved for sign the range -2147483648 to 2147483647

0.4 int64:

value will be repressed by 64 bits MSB is reserved for sign the range -9223372036854775808 to 9223372036854775807