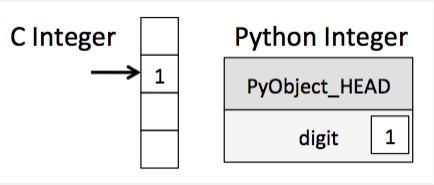
Getting started

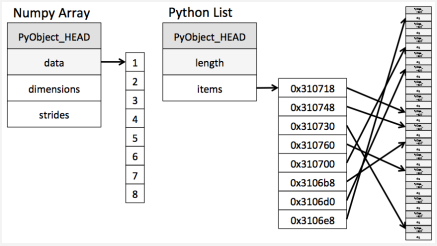
`import numpy as np`	Import Numpy using `np` as alias
`np.__v ers ion__`	Numpy version
`np.<Ta b>`	Display all contents of the numpy namespace
`np?`	Display Numpy built-in docume-ntation

A Python integer is more than just an integer



When we define an integer in Python, such as x = 1, x is not just a "raw" integer. It's actually a pointer to a compound C structure, which contains several values `ob_refcnt` (a reference count that helps Python handle memory allocation), `ob_type`(the type of the variable), `ob_size`(the size of the following data members), `ob_digit`(the actual integer value the Python variable to represent). Here `PyObje ct_HEAD` is the part of the structure containing the info mentioned above.

A Python list more than just a list



`L = list(r ang e(10))` to create a list of integers.
`L2 = [True, " 2", 3.0, 4]` to create a heterogeneous lists

But to allow these flexible types, each item in the list must contain its own type info, reference count, and other information–that is, each item is a complete Python object. In the special case that all variables are of the same type, much of this information is redundant: it can be much more efficient to store data in a fixed-type array (**Numpy**)

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