Cheatography

Python for Data Science - Numpy Cheat Sheet by Catelinnx via cheatography.com/64856/cs/16331/

Getting started	
import numpy as np	Import Numpy using p as alias
npversio n	Numpy version
np. <tab></tab>	Display all contents of the numpy namespace
np?	Display Numpy built-in documentation

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_refent (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 PyObject_HEAD is the part of the structure containing the info mentioned above.

By Catelinnx

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A Python list more than just a list



L = list(range(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 fixedtype array (**Numpy**)

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