

Images Part 5

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Flatten() v/s ravel()

→ Flatten() is a function of numpy nd array object, so it works with numpy array.

→ ravel() is a library level function which can be invoked on any object that can be correctly parsed.

Eg given a list of nd arrays, ravel() ✓
flatten() ✗

→ order parameter in ravel() & flatten()

(Default) "C" → indexed in row major format, C-style order
↳ final axis index changes the fastest
↳ first axis index changes the slowest

"F" → indexed in column major format, Fortran style order
↳ final axis index changes the slowest
↳ first axis index changes the fastest

* 'C' & 'F' ignore the array's memory layout and solely pertain to the order of axis

"A" → items should be read in Fortran like indexing
if 'A' is Fortran contiguous memory
otherwise "C" like order.

"K" → read the items in the order they appear in the memory

① ravel() → returns reference / view of the original

② ravel() is faster than flatten()

