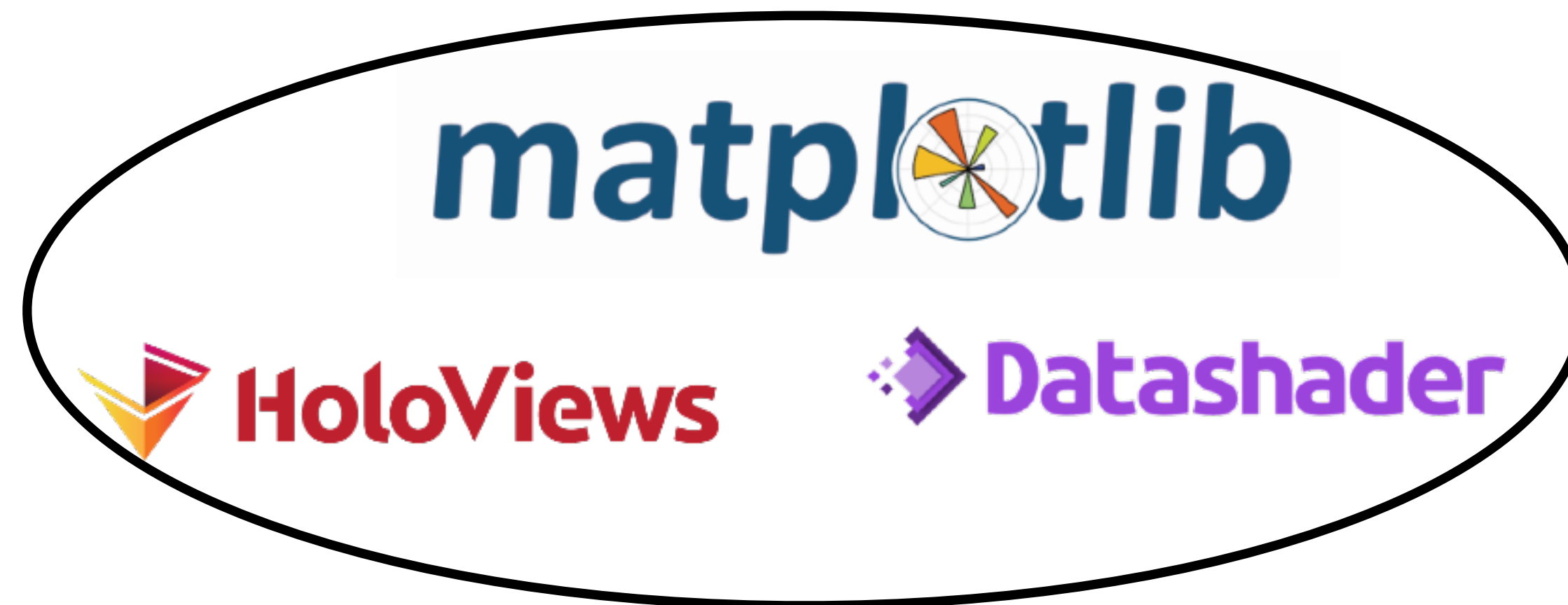# Computations

- Array computations are typically performed through vectorized operations to limit the use of loops

- For large arrays, this can easily overwhelm available memory

- Operations are serial and do not take advantage of additional processors

Shape: (3, 2)		Shape: (2,)		Shape: (3, 2)	
0	1	4	5	-4	-4
2	4	4	5	-2	-1
10	10	4	5	6	5

Image Credit: https://realpython.com/numpy-array-programming/