

Python Global Functions Cheat Sheet

1. max(), min()

- Find largest/smallest item in iterable.
- Example:
nums = [10, 25, 3]
max(nums) -> 25
min(nums) -> 3
- With dict: max(d, key=d.get)

2. sum()

- Add numbers in iterable.
- sum([1,2,3]) -> 6
- sum(d.values()) for dicts.

3. len()

- Returns number of elements.
- len([1,2,3]) -> 3

4. sorted()

- Returns new sorted list.
- sorted([3,1,2]) -> [1,2,3]
- sorted(words, key=len)

5. any(), all()

- any(iterable): True if any element True.
- all(iterable): True if all elements True.
- any([0,1,0]) -> True
- all([1,1,1]) -> True

6. reversed(), enumerate()

- reversed(seq): reverse iterator.
- enumerate(iterable): (index, value).
- Example:
for i, v in enumerate(['a','b']):
print(i,v)

7. For dicts:

- max(d) compares keys.
- max(d, key=d.get) -> by values.
- sum(d.values()) to sum numeric values.

8. For sets, tuples, lists:

- All global functions (max, min, sum, len, sorted, any, all) apply.

9. For arrays:

- from array import array
arr = array('i',[1,2,3])
max(arr), sum(arr)