


Alright — here's your **color-coded one-page cheat sheet** for `list`, `tuple`, `set`, and `dict` methods so you can remember them at a glance.

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## Python Collection Methods Cheat Sheet

### **LIST** (*ordered, mutable*)

 Think: add/remove anywhere, sort, reverse

```
append(x)      # add to end
insert(i, x)    # add at position
extend(iter)    # add multiple
remove(x)       # remove first match
pop(i)          # remove & return (default last)
sort()          # sort in place
reverse()       # reverse in place
index(x)        # find position
count(x)        # count occurrences
```

### **TUPLE** (*ordered, immutable*)

 Think: can't change, only check

```
count(x)        # count occurrences
index(x)         # find position
```

(That's it — all tuple can do!)

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### **SET** (*unordered, unique, mutable*)


 Think: math operations + add/remove

```
add(x)
remove(x)       # error if missing
discard(x)      # no error if missing
pop()           # remove random element
clear()         # empty the set
union(s)        # combine
intersection(s) # common elements
```

```
difference(s)    # remove s from current
symmetric_difference(s) # elements not in both
```

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## **DICT (key-value pairs, mutable, ordered [3.7])**

 *Think: keys, values, pairs*

```
get(key, default)
keys()           # all keys
values()         # all values
items()          # all (key, value) pairs
update({})       # add/overwrite
pop(key)         # remove & return value
popitem()        # remove & return last pair
clear()          # empty dict
```

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## **Memory trick:**

- **List** = L for "Long" → many methods.
- **Tuple** = T for "Tiny" → only 2 methods.
- **Set** = S for "Subtract" → has math-like methods (union, intersection).
- **Dict** = D for "Double" → always (key, value) pairs.