

Python Programming Garbage Collector

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Garbage Collector (CPython)

- So we created in the memory many objects, when they are removed to free the allocated memory?
 - Values live until **nothing references them**.
 - Python keeps track of **how many references** each value has.
 - Once the references are zero = it can be cleaned (auto)

```
2
3 def f2(tt):
4     # now 3 references to 'Hey'
5     print(tt)
6     # once the function returns it will be 2 references
7     # name tt scope is ended, but 'Hey' in memory
8
9
10
11 def f1():
12     s1 = 'Hey' # 1 reference to value 'Hey'
13     s2 = s1    # 2 references to 'Hey'
14     f2(s2)
15     del s2     # remove the bind to 'Hey'
16               # now 1 reference to 'Hey'
17     #print(s2) UnboundLocalError
18
19 f1()
20 # now 'Hey' has ZERO references
21
```

“Acquire knowledge and impart it to the people.”

“Seek knowledge from the Cradle to the Grave.”