# defaultdict

<https://stackoverflow.com/questions/5900578/how-does-collections-defaultdict-work>

defaultdict means that if a key is not found in the dictionary, then instead of a KeyError being thrown, a new entry is created. The type of this new entry is given by the argument of defaultdict.

somedict = {}

print(somedict[3]) # KeyError

someddict = defaultdict(int)

print(someddict[3]) # print int(), thus 0

if you write code without defaultdict

dict = {"a": "2", "b":3, "c":5}

name = 'JohnDoe and MarryDoe'

d = {}

for i in name:

    if i not in d:

        d[i] = 1

    else:

        d[i] += 1

If you write code with defaultdict

dict = {"a": "2", "b":3, "c":5}

name = 'JohnDoe and MarryDoe'

d = defaultdict(int) # this will set value "0" to all keys not in dictionary

for i in name:

        d[i] += 1