In [1]:
```
#collection_nome:- 1. Counter()
```

In [6]:
```
from collections import Counter
l=[1,1,1,12,2,2,3,3,4,4,5]
```

In [7]:
```
Counter(l)
```

Out[7]:
```
Counter({1: 3, 2: 2, 3: 2, 4: 2, 5: 1, 12: 1})
```

In [8]:
```
l=['a','a','a','s','s','c']
```

In [9]:
```
Counter(l)
```

Out[9]:
```
Counter({'a': 3, 'c': 1, 's': 2})
```

In [11]:
```
s = 'How many times does each word show up in this sentence word times each ea
ch word'

words = s.split()

c=Counter(words)
c.most_common(1)
```

Out[11]:
```
[('word', 3)]
```

In [12]:
```
#DEFAULTDICT() STARTS
```

In [14]:
```
from collections import defaultdict
```

In [15]:
```
d={}
```

In [16]:
```
d['one']
```

```
---------------------------------------------------------------------------
KeyError                                  Traceback (most recent call last)
<ipython-input-16-075401876800> in <module>()
----> 1 d['one']

KeyError: 'one'
```

In [17]:
```
d=defaultdict(object)
```

In [18]:
```
d['one']
```

Out[18]:
```
<object at 0x4d64610>
```

In [19]:
```
for n in d:
    print n
```

```
one
```

In [21]:
```
d=defaultdict(lambda:1)
```

In [22]:
```
d
```

Out[22]:
```
defaultdict(<function __main__.<lambda>>, {})
```

In [23]:
```
d['one']
```

Out[23]:
```
1
```

In [24]:
```
#orderdict starts here
```

In [25]:
```
print 'Normal dictionary:'

d = {}

d['a'] = 'A'
d['b'] = 'B'
d['c'] = 'C'
d['d'] = 'D'
d['e'] = 'E'

for k, v in d.items():
    print k, v
```

```
Normal dictionary:
a A
c C
b B
e E
d D
```

In [29]:
```
print 'Normal dictionary:'

d = collections.OrderedDict()

d['a'] = 'A'
d['b'] = 'B'
d['c'] = 'C'
d['d'] = 'D'
d['e'] = 'E'

for k, v in d.items():
    print k, v
```

```
Normal dictionary:
a A
b B
c C
d D
e E
```

In [30]:
```
print 'Dictionaries are equal? '

d1 = {}
d1['a'] = 'A'
d1['b'] = 'B'

d2 = {}
d2['b'] = 'B'
d2['a'] = 'A'

print d1 == d2
```

```
Dictionaries are equal?
True
```

In [31]:
```
print 'Dictionaries are equal? '

d1 = collections.OrderedDict()
d1['a'] = 'A'
d1['b'] = 'B'


d2 = collections.OrderedDict()

d2['b'] = 'B'
d2['a'] = 'A'

print d1 == d2
```

```
Dictionaries are equal?
False
```

In [32]:
```
#namedtuples start here
```

In [33]:
```
from collections import namedtuple
```

In [34]:
```
Dog = namedtuple('Dog','age breed name')

sam = Dog(age=2,breed='Lab',name='Sammy')

frank = Dog(age=2,breed='Shepard',name="Frankie")
```

In [35]:
```
sam
```

Out[35]:
```
Dog(age=2, breed='Lab', name='Sammy')
```

In [36]:
```
sam.age
```

Out[36]:
```
2
```

In [37]:
```
sam.name
```

Out[37]:
```
'Sammy'
```

In [38]:
```
sam.breed
```

Out[38]:
```
'Lab'
```

In [39]:
```
sam[0]
```

Out[39]:
```
2
```