

C: Tuples in more detail

Can assign to a tuple:

```
names = "Potter,Harry".split(",")  
(last,first) = names
```

```
names ← ["Potter", "Harry"]  
last ← "Potter"  
first ← "Harry"
```

Can use to retrieve keys and values from dictionaries using .items():

```
names = { "36067":"Onondaga County", ... }  
for (key,value) in names.items():
```

```
key ← "36067"  
value ← "Onondaga County"
```

Can combine lists into lists of tuples using zip():

```
list1 = ["a","b","c"]  
list2 = [1,2,3]  
list3 = zip(list1,list2)
```

```
list3 = [  
    ("a",1),  
    ("b",2),  
    ("c",3)  
]
```

Can build dictionaries from lists of tuples:

```
d1 = dict( list3 )
```

```
d1 = {  
    "a":1,  
    "b":2,  
    "c":3  
}
```

Can number lists via enumerate():

```
list4 = ["a","b","c"]  
tuples = enumerate(list4)
```

```
tuples = [  
    (0,"a"),  
    (1,"b"),  
    (2,"c")  
]
```