## CS 931: Dictionaries

## Dictionaries

```
    >>> inventory = {} # an empty dictionary
    >>> inventory['apple'] = 6
    >>> inventory['orange'] = 12
    >>> inventory['banana'] = 4
    >>> inventory['orange']
    4
    >>> inventory['coconut']
    Traceback (most recent call last):
        File "<pyshell#49>", line 1, in <module>
            inventory['coconuts']
    KeyError: 'coconuts'
    >>>
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```

A dictionary contains a set of key/value pairs. In the example of the slide, 'apple', 'orange', and 'banana' are keys, and 6, 12, and 4 are values

## Dictionaries

```
    >>> def addfruit(fruit, quant, inv):
        if fruit in inv:
                inv [fruit] += quant
        else:
                        inv [fruit] = quant
    >>> addfruit('orange', 6)
    >>> addfruit('guava', 3)
    >>> inventory['orange']
    18
    >>> inventory['guava']
    3
```

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## Dictionaries

```
    >>> def printinventory(): 
        for f in inventory.iterkeys(D)
        print f, inventory[f]
    >>> printinventory()
    orange 18
    guava 3
    apple 6
    banana 4```

