

Python

Python Dictionary Updating

There are three main alterations you can make on a dictionary.

You can **insert a new key**:

```
dict[new_key] = new_val
```

You can **overwrite an old key**:

```
dict[old_key] = new_val
```

You can **modify an old key**, e.g.:

```
dict[old_key] = old_val.append(new_val)
```

```
dict[old_key] += new_val
```

```
dict[old_key] = f(old_val)
```

Python Loops

There are a few main “flavors” of loops.

There are loops that **count**, e.g.:

```
i=0
while i<15:
    i+=1
```

There are loops that **sum or extend**, e.g.:

```
items=[]
for i in 'abcd':
    items.append(i)
```

Python Loops

Finally, are loops that **aggregate or track**, e.g.:

```
max_len = 0
max_item = 0
for i in ['a', 'bb', 'ccc']:
    if len(i) > max_len:
        max_len = len(i)
        max_item = i
```

Python Loops

We saw that loops can be shortened with list comprehensions:

```
for i in iterable:
    if condition:
        expression
```

→ [expression for i in iterable if condition]