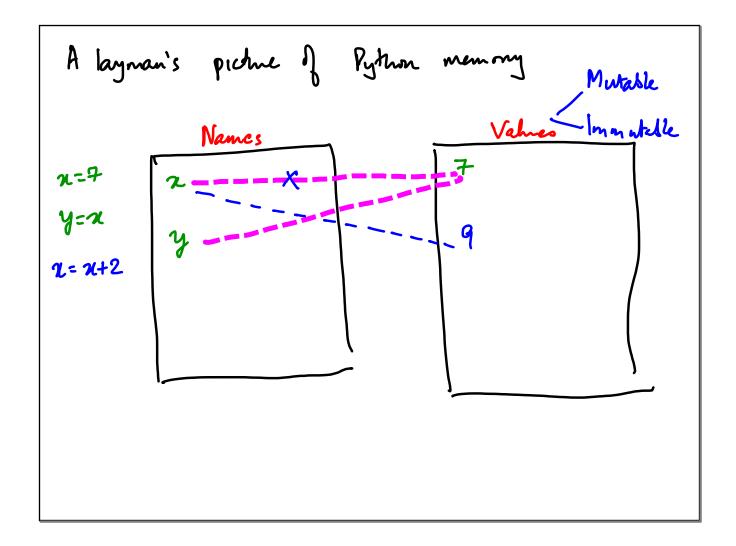
Persistent variables in classes

Names, values, types ck

No declarations => names don't carry type Type of name is given by current value

Dynamic typing But street



```
Numbers
Boolean
Strings
S="hello"

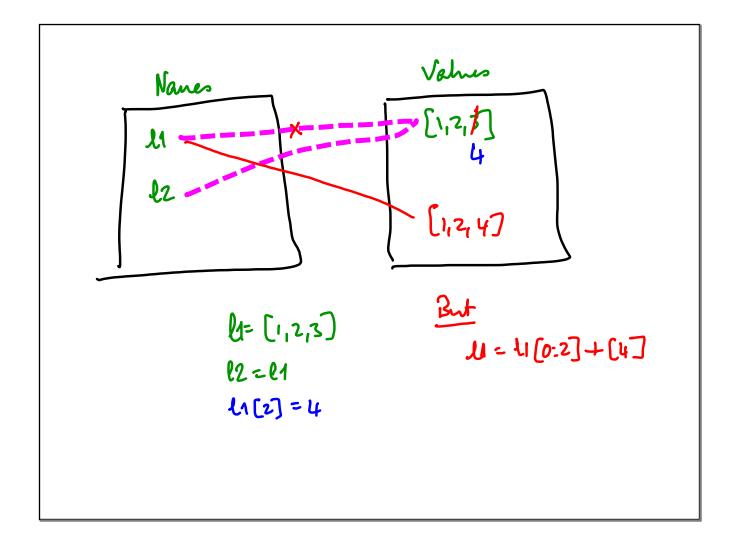
Luples

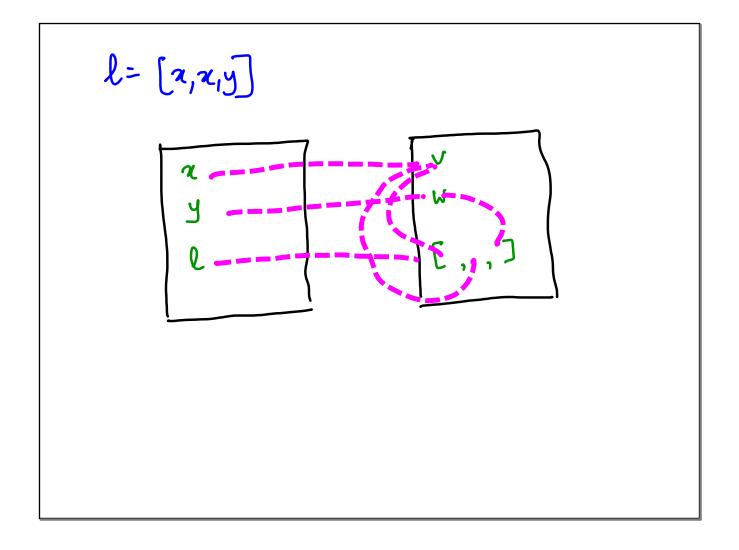
S= S[0:4]+"!"

Mutable

Lists

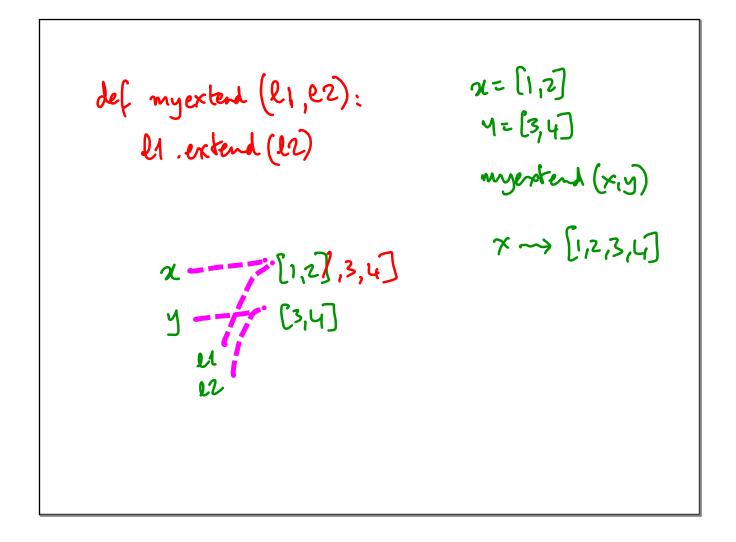
Dictoranes
Objects via classes
```





As though we start of with

a = a If x, y are pointry to b = y immutable values, where in of have for the pointry in the point of the pointry in the pointry



Can charge contents of a mutable object but not what it pouls to via a function

def extendplus (e1, e2)

l1 = e1 + e2

2 - - [1,2]

y - - [3,4]

l2 - [1,2,3,4]

Updating lists

list[i] = new in place

list[i:j] = new in place

l[len(e):] = newlit l.extend (newlist)

l.appord(v) l.extend (list)

lill - new object