hit written as
$$[1,3,[2,3.5], False]$$

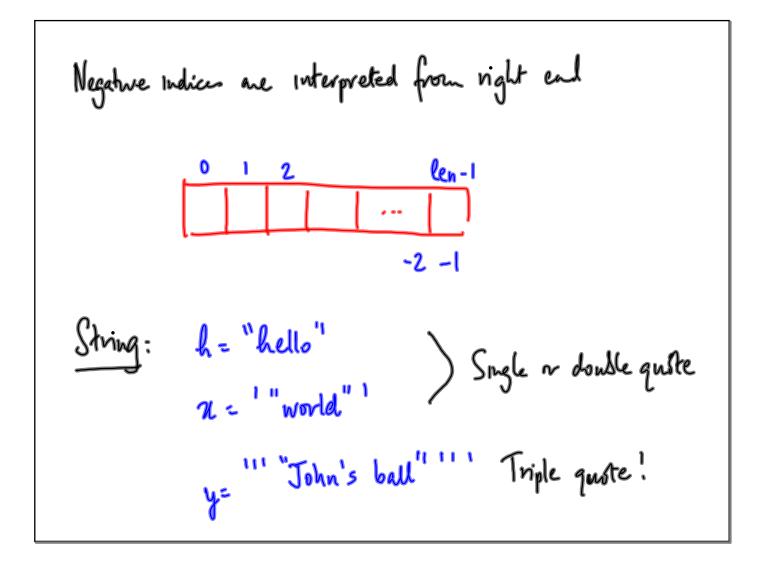
 $l = [1,3,[False]]$ $l[2][0] \rightarrow False$
 $l[i]$ is value at position i , $0 \le i < length$
(oncatenation is + (++ in Hashed))
 $l = [1,3] + [[False]] \rightarrow [1,3, [False]]$

$$l[i:j] "slice" [l[i], l[m], ..., l[j-1]]$$

$$Prefix l[0:j], also l[:j]$$

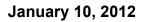
$$len (l) is length g l$$

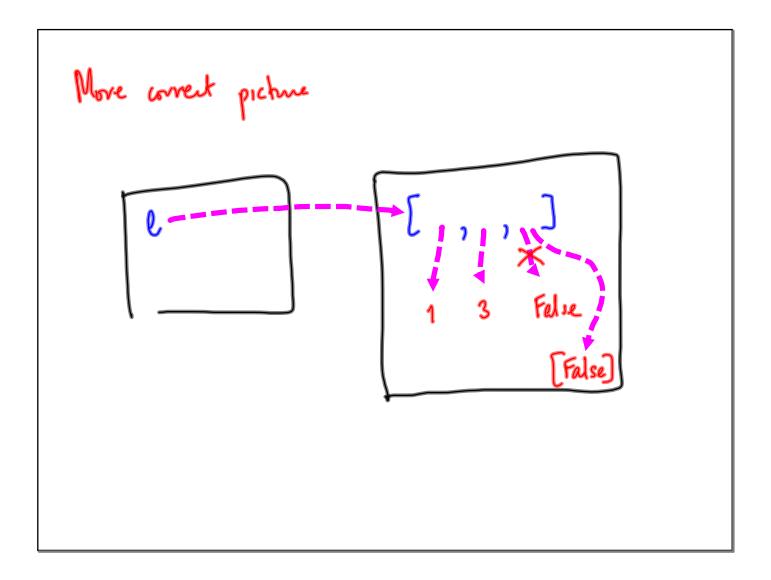
$$Suffix l[i:len(l)], also l[i:]$$
"Full" slice : l[:]



Like lists:
$$h = "hello" = ""world"'$$

 $h[2] \sim "l"$
 $h + n \sim hello"world"'$
 $h[2:4] \sim "ll"$
Tuples
pair = (3,4)
info = ("AB", 62, 3.5, False)

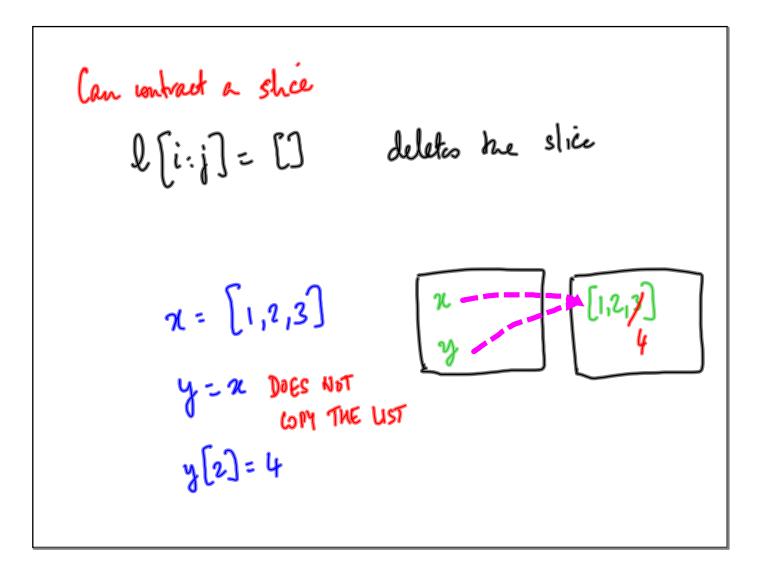




In a list, can directly update a slice

$$l = (1, 3, 6.2, [Time], 8]$$

 $l(1:4) = [S, "hello", 62]$
 $[1, S, "hello", 62, 8]$
 $l(1:3) = [lk, 18, 19]$ $[1, lb, 19, 19, 19, 62, 8]$



y = x [:] slice always makes a new object Use ful slice to make a way of a list

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