

Dictionaries

Recall list: ⁰ ¹ ² ³
 ['kumquat', 'orange', 'strawberry', 'grape']

we can think of this like a function / map from indices to items:

0 → 'kumquat'
1 → 'orange'
2 → 'strawberry'
3 → 'grape'
⑦ → ... ?

A dictionary (map) lets us associate values with arbitrary keys.

e.g.

2 → 'grape'
99 → 'strawberry'
5 → 'kiwi'

OR

'kitchen' → 'grape'
'dining room' → 'kiwi'
⋮

Frequency counting

'apple' → [1, 0, 0, 0, 1, 0, ...]

Annoying! Hard to read, hard to generalize.

Better: { 'a': 1, 'p': 2, 'l': 1, 'e': 1, '!': 1 }