

Week 7
Monday 10/13/2025

Dictionaries

A. Dictionaries

- Sequential collections: strings, lists, tuples
(ordered from left to right)
- Dictionaries: built-in mapping type
↳ unordered, associative collection

• Step:

- +> empty dictionary : {}
- +> add key-value pairs
e.g. eng2sp = {}
eng2sp['one'] = 'uno'

B. Dictionary operations

1. del statement
e.g. del inventory['pears']
2. immutability
e.g. inventory['pears'] = 0
3. len function: # of key-value pairs

C. Dictionary method

Method	Parameters	Description
keys	N/A	return a view of the keys in the dictionary
values	N/A	_____ values _____
items	N/A	_____ key-value pairs _____
get	key	_____ the value associated w/ the key ; None otherwise
get	key, alt	_____ j alt otherwise

D. Aliasing and Copying

→ Be careful!

E. Sparse matrices

1. Assign: matrix = {(0,3): 1, (2,1): 2}
2. Call: matrix.get(0,3)