Maps + Sets
L'Almost every program you write in the real world has either a List or a Map or Goth.
[MAP] - Dictionary, Symbol Table, Associative Array, Hashtable
is a collection of associations between pairs of data.
Maps are used when you want to save a piece of intermetim (a value) & later redieve that value based on another piece
(a value) & later redrieve that value based on another prece of into called a key
Sometimes called a distinary blc a map is used to look up values
based on their keys. VALUE
Dictionary word -> definition
Bank: acct# -> balance
Airline: flight# -> start city, end city
Sweet: Conf# -> date, hime, loc'n
Aldrew: name - fel #, email, address
Box Sund table: Variable -> ration monory lock
→ trenms — coor
- Purpose of a nap is to organize there key-value pairs in a way to make then fost to search.
- Usually for arrays/lists, the user controls the order of tens Usually for maps "programme" "key-value paire.

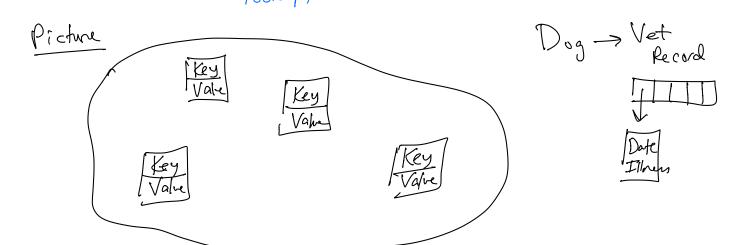
Operation?

Put (key, value) — stores this key-value pair in the map.

Ladd, insert

Get (key) — return the value associated w/ that key.

Lookup, find, search



Regular ARRAYS: lookup an item based on index Map (assoc): lookup a value based on a key

