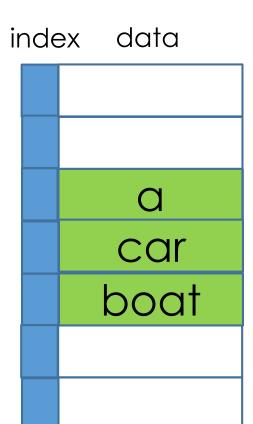
Hash Tables: Use



By the end of this video you will be able to...

 Explain the difference between a Hash Set and a Hash Map

Hash Set



Tells you if an item is in the set or not.

Hash Set

index data car boat

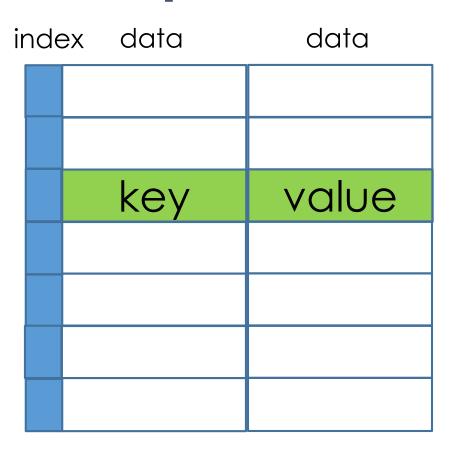
A Dictionary is perfect as a Hash Set

java.util

Class HashSet<E>

Methods	
Modifier and Type	Method and Description
boolean	add(E e) Adds the specified element to this set if it is not already present.
boolean	contains(Object o) Returns true if this set contains the specified element.

Hash Map



Stores both a key and some data associated with the key

Hash Map

recent texts index data data text1 → text2 -Ivan

Store friends with

java.util

Class HashMap<K,V>

Methods	
Modifier and Type	Method and Description
V	get(Object key) Returns the value to which the specified key is mapped, or null if this map contains no mapping for the key.
V	<pre>put(K key, V value) Associates the specified value with the specified key in this map.</pre>

Hash Table Key Points



Average: O(1) lookup, insert, and remove



Resizing costs
No data ordering