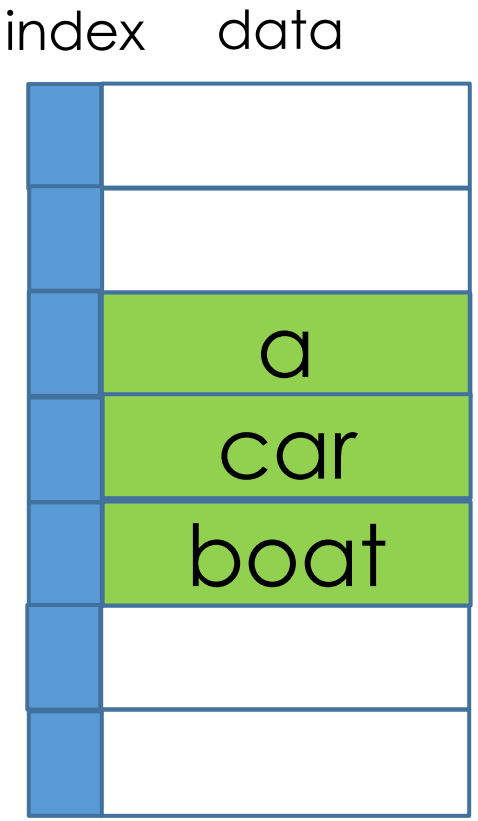
Hash Tables: Use

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

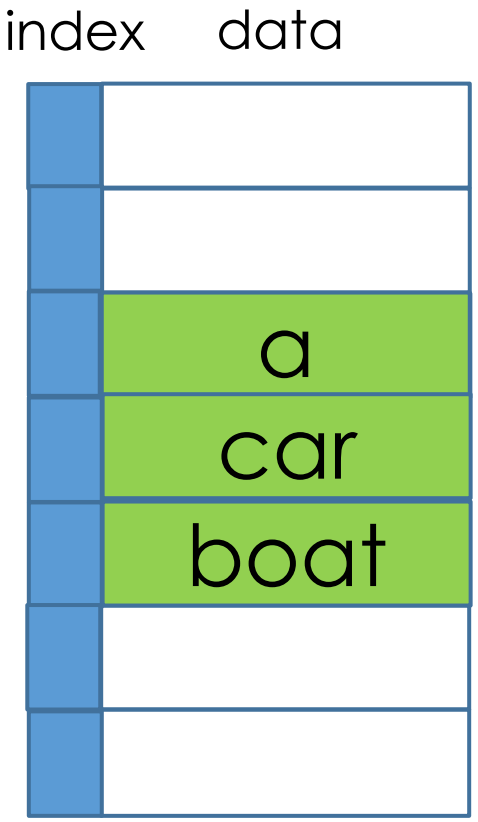
- Explain the difference between a Hash Set and a Hash Map

Hash Set



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

Hash Set



A Dictionary is perfect as a Hash Set

java.util

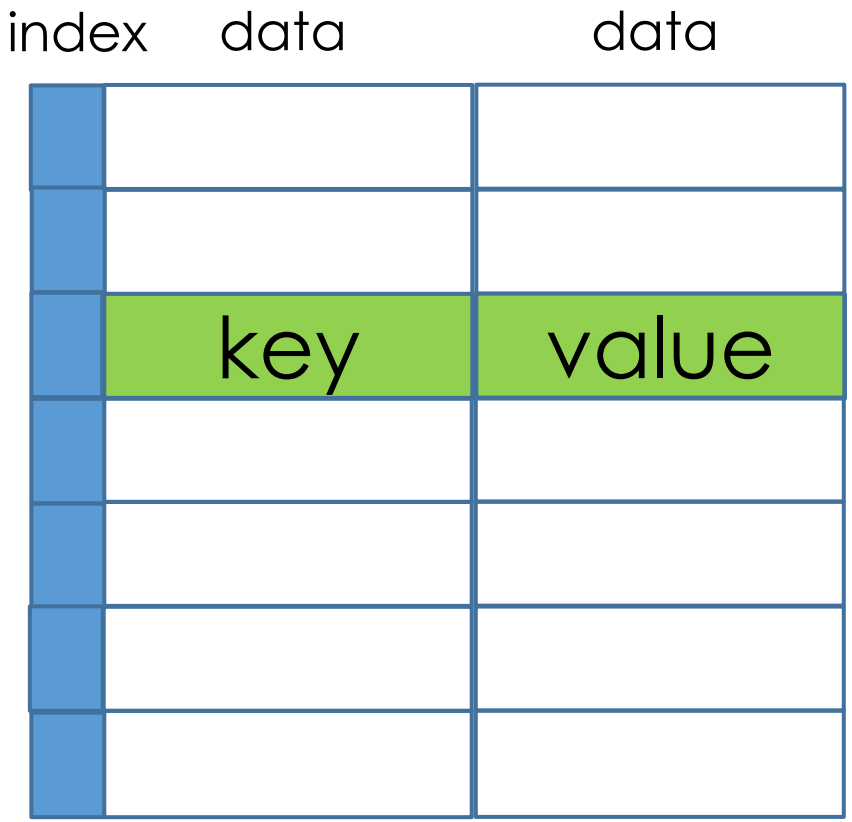
Class HashSet<E>

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.

http://docs.oracle.com/javase/7/docs/api/java/util/HashSet.html

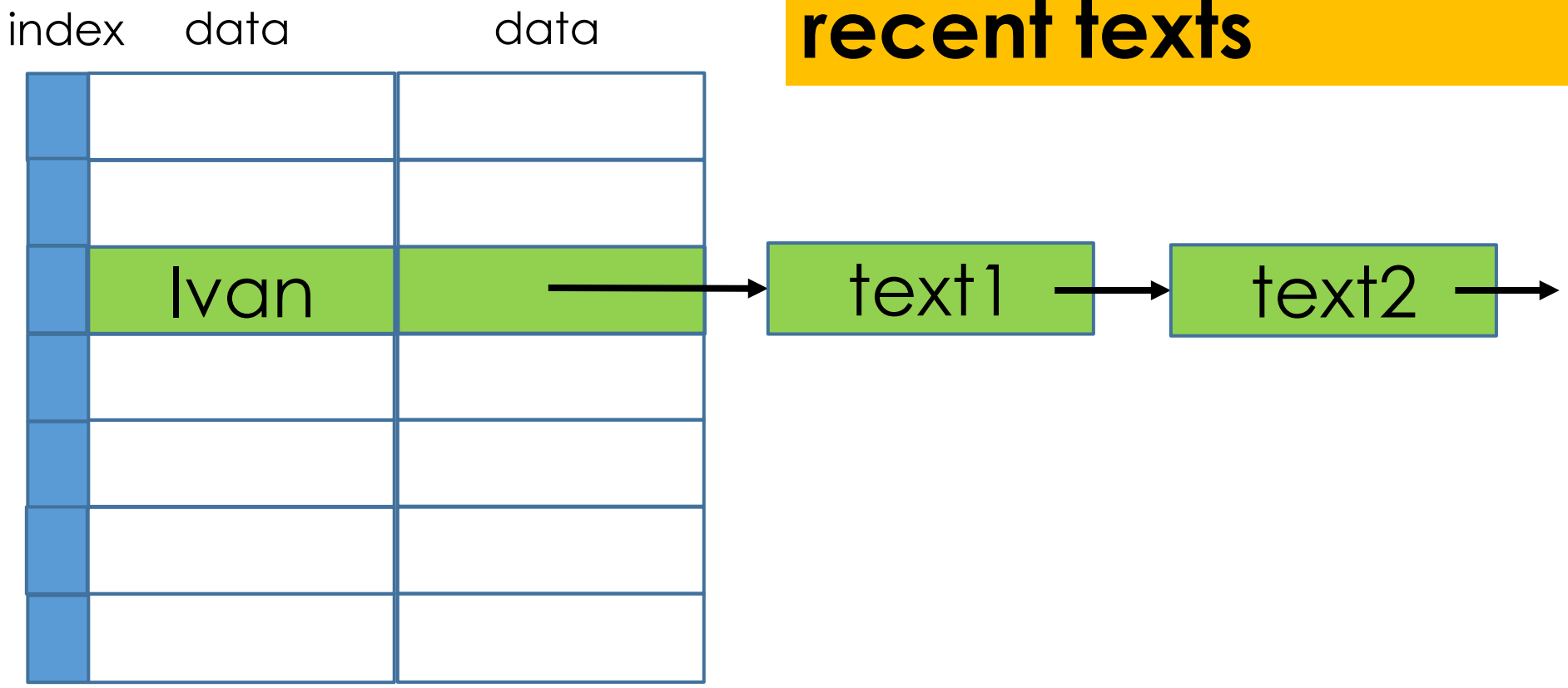
Hash Map



Stores both a key and some data associated with the key

Hash Map

Store friends with recent texts



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`	`put(K key, V value)` Associates the specified value with the specified key in this map.

http://docs.oracle.com/javase/7/docs/api/java/util/HashMap.html

Hash Table Key Points

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

Resizing costs
No data ordering

http://docs.oracle.com/javase/7/docs/api/java/util/HashSet.html