

The reason why only the keys of a dictionary need to be hashable is that Python uses the hash value of each key to determine where to store and find its corresponding value in memory. If the key were mutable, its hash value could change, and the dictionary would no longer be able to locate it correctly. In contrast, the value is simply stored at the location determined by the key, so it does not need to be hashable. It can be any type of object, including unhashable ones like lists or other dictionaries.