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Python dictionary get key from value

Python | Get key from value in dictionary Let's see how to retrieve the key by value in python dictionary. Method 1: Using list.index() The index() method returns the index of the corresponding value in a list. Below is an implementation method for using the index() method to retrieve dictionary key using value. my_dict = {java:100, Python:112, c:11} key_list = list(my_dict.keys()) val_list = list(my_dict.values()) position = val_list.index(100) print(key_list[position]) position = val_list.index(100) 112 print(key_list[position]) print(list(my_dict.keys())[list(my_dict.values()).index(112)]) Output: java python Explanation: The method used here is to find two separate lists of keys and values. Then retrieve the key using the position of the value in the val_list. As a key at all positions N in key_list to have the corresponding value at position N in val_list. Method #2: Using dict.item() We can also retrieve the key from a value by matching all values and then printing the corresponding key to the given value. def get_key(selection): for key, value in my_dict.items(): if selection == value: return key return key does not exist my_dict = {java:100, python:112, c:11} print(get_key(100)) print(get_key(11)) Attention geek! Strengthen your foundation with the Python Programming Foundation Course and learn the basics. For starters, your interview preparation improves your data structures with the Python DS course. The get() method takes maximum of two parameters: key - key to be searched in the dictionary value (optional) - Value to be returned if the key is not found. The default value is None. Return value from the get() get() method returns: the value of the specified key if the key is in the dictionary. None if the key is not found and the value is not set. if the key is not found and the value is set. Example 1: How does get() work for dictionaries? person = {'name': 'Phill', 'age': 22} print('Name: ', person.get('name')) print('Age: ', person.get('age')) # value is not specified print('Salary: ', person.get('salary')) # value is entered print('Salary: ', person.get('salary', 0.0)) Output Name: Phill Age: 22 Salary: None Salary: ', person.get() method Vs dict[key] to Access Elements get() method returns a default value if the key is missing. However, if the key is not found when you use dict[key], the KeyError exception is generated. person = {} # Using get() results in No printout('Salary: ', person.get('salary')) # With [] results in KeyError print(person['salary']) Output pay: No Traceback (last call last): File , row 7, in print(person['salary']) KeyError: 'pay' Python dictionary method get() returns a value for the specified key. If the key is not available, return the default value None. Syntax following is the syntax of the get() method - dict.get(key, default = None) Parameters key - This is the key to be searched in the dictionary. default - This is the value to return if the key does not exist. Return This method returns a value for the specified key. If the key is not available, return the default value None. Example The following example shows the get() method. #!/usr/bin/python dict = {'Name': 'Zabra', 'Age': 7} print Value : %s % dict.get('Age') print Value : %s % dict.get('Education', Never) When we run the above program, it gives the following results - Value : 7 Value : Never python_dictionary.htm have already been answered, but since several people mentioned turning the dictionary, here is how to do it on a line (assuming 1:1 mapping) and a few different perf data: python 2.6: reversdict = dict([(value, key) for key, value in mydict.iteritems()]) if you think it's not 1:1, You can still create a reasonable reverse mapping with a couple of rows: reversdict = defaultdict(list) [reversdict[value].append(key) for key, value in mydict.iteritems()] how slow is this: slower than a simple search , but not nearly as slow as you would think - on a straight 100000 record dictionary was a quick search (i.e. looking for a value that should be early in the keys) about 10x faster than flipping the entire dictionary and a slow search (towards the end) about 4-5x faster. So after at most about 10 spreads, it's paid for itself. the second version (with lists per item) takes about 2.5x as long as the simple version. largedict = dict((x,x) for x in range(100000)) # Should be slow, must search 90000 records before finding it in [26]: %timeit largedict.keys()[largedict.values().index(90000)] 100 loops, best of 3: 4.81 ms per loop # Should be fast, need only search 9 records to find it. In [27]: %timeit largedict.keys()[largedict.values().index(9)] 100 loops, best of 3: 2.94 ms per loop # How about using iterkeys() instead of keys()? # These are faster, because you don't have to create the entire key matrix. # You need to create the entire value matrix - more on that later. In [31]: %timeit islice(largedict.iterkeys(), largedict.values().index(90000)) 100 loops, best of 3: 3.38 ms per loop I [32]: %timeit islice(largedict.iterkeys(), largedict.values().index(9)) 1000 loops, best of 3: 1.48 ms per loop I [24]: %timeit reversdict = dict([(value, key) for key, value in largedict.iteritems()]) 10 loops; best of 3: 22.9 ms per loop I [23]: %%timeit: reversdict = defaultdict(list): [reversdict[value].append(key) for key, value in largedict.iteritems()]): 10 loops, best of 3: 53.6 ms per loop Also had some interesting results with filters. Theoretically, ifilters should be faster, as we can use itervalues() and may not have to create/go through the entire value list. In practice, the results

