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Ask Question



edited Nov 28 '12 at 11:12



answered Aug 7 '09 at 9:04



ccalboni

7,624 5 23 34

So this simple method seems also to be a better substitute for the well known ".Add" and ".TryGetValue" method without the necessity to change the value. (?) At least, if it doesn't matter to overwrite keys, for example in a situation where it is not excluded that keys are written more than once in a loop. Or does somebody see any disadvantages? Especially because .Add has the ptifall for beginners that if the if-wrapper or TryGetValue is forgotten, it can work fine in tests and with other test data where the .Add is called twice for the same key it will throw an exception. – Philm Jan 14 '17 at 9:52

the interesting point of this operation is that, it UPSERT (key, value) into dictionary. brilliant! – Soren Jan 16 '17 at 7:51

1 As Pini stated, this should be the answer to the question. due the right thing and change it. – Leo Gurdian Mar 17 '17 at 18:53



It's possible by accessing the key as index

183 for example:



Dictionary<string, int> dictionary = new Dictionary<string
dictionary["test"] = 1;</pre>

answered Aug 7 '09 at 9:33



Amit

10.5k 23 62 100

10 If there is no item "test" in the List, then list["test"] = list["test"] + 1; will raise KeyNotFoundException! The pure assignment of a non existing indexer will work. list["test"] = 1; −
 Steven Spyrka May 26 '15 at 9:38

Can you also use list["test"]++;? – aufty Jan 8 '16 at 18:02

- 14 dont call a dictionary list, call it dogs or cats or dict user3800527 Mar 17 '16 at 9:35
- 1 @aufty you can write ++dictionary["test"]; or
 dictionary["test"]++; but only if there is an entry in the
 dictionary with the key value "test" example:
 if(dictionary.ContainsKey("test"))
 ++dictionary["test"]; else dictionary["test"] = 1; //
 create entry with key "test" gerryLowry May 20 '18 at
 0:29



You can follow this approach:

else

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```
void addOrUpdate(Dictionary<int, int> dic, int key, int new
{
   int val;
   if (dic.TryGetValue(key, out val))
   {
      // yay, value exists!
      dic[key] = val + newValue;
   }
}
```

The edge you get here is that you check and get the value of corresponding key in just 1 access to the dictionary. If you use <code>containsKey</code> to check the existance and update the value using <code>dic[key] = val + newValue</code>; then you are accessing the dictionary twice.

answered Jun 17 '14 at 4:19



Instead of dic.Add(key, newValue); you can use use dic[key] = newvalue; . – Macke Apr 13 '15 at 4:15
✓

What happens if you do "dic[key] = value" and "key" doesn't exist? – superpuccio Aug 3 '15 at 11:41

- 1 @superpuccio you get a KeyNotFoundException ntroncos Sep 21 '15 at 23:52
- 7 @ntroncos not true, it will add that key to the dictionary with the value provided. += will not work on a non-existing key though, since it is just syntactic sugar for dic[key] = value + dic[key]. − lastas Dec 18 '15 at 14:26 ✓
- 2 This should be the answer to the question as it regards updating the dictionary not just adding to it. – The Lonely Coder Dec 16 '16 at 9:41



Use LINQ: Access to dictionary for the key and change the value

13

Dictionary<string, int> dict = new Dictionary<string, int>

answered Jun 26 '15 at 12:20



INT_24h **827** 7 6

I don't even understand how this works but it's amazing – hexagonest Aug 26 '15 at 10:55

- 1 Creating another dictionary doesn't make sense to me for such simple thing. Check ccalboni's answer. – RollerCosta Feb 9 '17 at 7:49
- 1 i think it is a good answer. it doesn't require you to know each key string Joseph Wu Apr 10 '17 at 23:15



Here is a way to update by an index much like foo[x] = 9 where x is a key and 9 is the value





var views = new Dictionary<string, bool>();

foreach (var g in grantMasks)
{
 string m = g.ToString();
 for (int i = 0; i <= m.Length; i++)
 {
 views[views.ElementAt(i).Key] = m[i].Equals('1') ?
 }
}</pre>

edited Nov 28 '17 at 17:09



Dean Seo 3,017 2 19 41

```
'14 at 11:26
```

I dont know how efficient is this logic, but I like the For loop idea. :) – open and free Nov 4 '14 at 14:37



This may work for you:

0

Scenario 1: primitive types



```
string keyToMatchInDict = "x";
int newValToAdd = 1;
Dictionary<string,int> dictToUpdate = new Dictionary<string
if(!dictToUpdate.ContainsKey(keyToMatchInDict))
    dictToUpdate.Add(keyToMatchInDict ,newValToAdd );
else
    dictToUpdate.Where(kvp=>kvp.Key==keyToMatchInDict).Firs
==newValToAdd; //or you can do operations such as ...Value.
```

Scenario 2: The approach I used for a List as Value

```
int keyToMatch = 1;
AnyObject objInValueListToAdd = new AnyObject("something for Dictionary<int, List<AnyObject> dictToUpdate = new Dictional
//imagine this dict got initialized before with valid Keys

if(!dictToUpdate.ContainsKey(keyToMatch))
    dictToUpdate.Add(keyToMatch,new List<AnyObject>{objInValelse}

dictToUpdate.Where(kvp=>kvp.Key==keyToMatch).FirstOrDefaul
```

answered Oct 30 '18 at 11:11

