
Subject: Re: 'True' python call

Posted by chris_torrence@NOSPAM on Tue, 08 Sep 2015 16:07:49 GMT

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On Friday, September 4, 2015 at 8:47:21 AM UTC-6, Helder wrote:

> On Friday, September 4, 2015 at 4:29:48 PM UTC+2, Fabien wrote:

>> On 09/04/2015 03:31 PM, Helder wrote:

>>> All fail. Any suggestion how to do this?

>>

>> I dont have IDL8.5 to test it but in python "1" is equivalent to "True"

>

> Hi Fabien,

> in the meanwhile, I'm realizing that this may be a very different error. The error I get in IDL is:

>

> % PYTHON_CALLMETHOD: Exception: 'crosscheck' is an invalid keyword argument for this function.

>

> I'm using BFMatcher of opencv (ver 3.0) and the keyword crosscheck is defined as crossCheck with capital "C" and the error it throws is of an invalid keyword...

>

> I just found a dirty workaround:

>

> Python.Run, 'import cv2'

> Python.Run, 'bf = cv2.BFMatcher(cv2.NORM_HAMMING, crossCheck=True)'

> bf = Python.bf

>

> and it seems to work.

>

> Still, the question holds: can one call methods with keywords with capital letters?

>

> Cheers,

> Helder

Hi Helder,

The short answer is "no". Right now, IDL converts all Python keywords to lowercase. However, if you know the order of the arguments, you can call the method without using the keyword names. For example:

```
IDL> Python.Run, "def hello(x, mykey1=4, MYKEY2=5):\n" + $
```

```
IDL> " return 'x='+str(x)+' mykey1=' + str(mykey1) + ' MYKEY2=' + str(MYKEY2)"
```

```
IDL> print, Python.hello(1,mykey1=2,MYKEY2=3) ; this will throw an error
```

```
IDL> print, Python.hello(1,2,3) ; this works!
```

Or, like you discovered, you can call the method as a string. One tip - you can use ">>>" to avoid typing "Python.run"

```
IDL> >>>hello(1, mykey1=2, MYKEY2=3)
'x=1 mykey1=2 MYKEY2=3'
```

Note: When calling functions and methods, the IDL Python bridge attempts to find the correct case - lower, upper, mixed. So that works fine. However, for Python keywords, it's much trickier to get the function's "signature". I found a stackoverflow here:

<http://stackoverflow.com/questions/2677185/how-can-i-read-a-functions-signature-including-default-argument-values>

Maybe this is something we can try for the next release.

Cheers,
Chris
