

U6944D5GU : :eyes:

U5NMSURQA : the function applies to every element of the original array

U5NMSURQA : so you see three plots: `y = x^1`, `y = x^2` and `y = x^3`

U5ZPMJA06 : I have here a very small unit test program which is supposed to test that an object throws an `AttributeError` exception when a nonexistent attribute lookup is attempted.

```
...
```

```
"""
```

It works fine, but I had to put the attribute access in a function.

I'd rather not define that function and use the `assertRaises` as follows:

```
self.assertRaises(AttributeError, lambda item: item.donation)
```

However, this gives me a `"TypeError: <lambda>() takes exactly 1 argument (0 given)"`

Is this somehow possible without helper function?

```
"""
```

```
import unittest
```

```
class Person(object):
```

```
    pass
```

```
class MyTestCase(unittest.TestCase):
```

```
    def testNonexistentAttribute(self):
```

```
        def bombfunc():
```

```
            p = Person()
```

```
            p.name = "Joe"
```

```
            p.money = 2800
```

```
            p.money += p.donation # boom!
```

```
        self.assertRaises(AttributeError, bombfunc)
```

```
        self.assertRaises(AttributeError, lambda item: item.donation) # How to make this work?
```

```
if __name__ == "__main__":
```

```
    unittest.main()
```

```
...
```

U5LNXQHN3 : I know you can use a ``with`` block in some other test packages, but to be honest this seems like a weird thing to be testing for

U5LNXQHN3 : You could probably use ``self.assertIn("donation", item.__dict__)`` or some similar abomination if you really want a one-liner

U5ZPMJA06 : <@U5LNXQHN3> Yeah it sounds weird, but actually the object under test is some kind of container giving both attribute and keyed lookup access to a set of properties, and I need to test whether the right exceptions are thrown during lookup of a nonexistent property.

U5LNXQHN3 : Sounds like a bad idea to me. But if I had to write tests for it, I'd just use the `__dict__` check directly. Or ``hasattr``.

U5ZPMJA06 : <@U5LNXQHN3> Bad idea? You have a better idea? Thanks for the ``hasattr`` tip! This is what it's all about, the ``Bunch`` object: <<https://github.com/motoom/bunch>>

U5LNXQHN3 : I think that is unnecessarily blurring the lines between a container and a type. If you don't know what attributes a type has, then you don't really know what interface it provides, which makes it a very awkward object to work with

U5ZPMJA06 : <@U5LNXQHN3> I use it to declutter my source code. Basically it is a ``dict`` like object where you don't have to type ``["`` and ``]"`` all the time. So I can write:``

U5ZPMJA06 : ``for r in bunched(recordset): # Where recordset is fetch_all() of DictCursor if r.salary < 3000:

```
    print r.name, "could use a raise"
```

```
...
```

U5ZPMJA06 : Psycopg2 has a `NamedTupleCursor`, which provides the same syntax.

U5LNXQHN3 : In that case, at least the schema is documented elsewhere. But I don't like it.

U5ZPMJA06 : The alternative would be:``

```
for r in recordset:
```

```
    if r["salary"] < 3000:
```

```
        print r["name"], "could use a raise"
```

You prefer that?

U5LNXQHN3 : Maybe

U5ZPMJA06 : I can work like that. You have a job for me? :stuck_out_tongue_winking_eye:

U5LNXQHN3 : In the general case, yes. It's not exactly a great hardship. In a database context, it might be nice to have a type that directly reflects the DB schema - which is what we have ORM for

U5ZPMJA06 : btw, the `NamedTupleCursor` gets its attribute names from the fields behind the *SELECT*. I.e. `select name, salary from Employees` would result in *.name* and *.salary* attributes on the tuples in the resultset.

U5LNXQHN3 : I just really dislike things that attempt to cut down on a bit of typing by ruining the interface. Several parsers do it, like BeautifulSoup. lxml.objectify is even worse

U5ZPMJA06 : I wouldn't call it ruining. It makes the code more readable to me. I prefer dot notation over index lookup with a string.