

---

# **PyConJP 2012 Python for beginners Documentation**

**Shinya Okano**

2012 08 29



---

# Contents

---

<b>1</b>		<b>1</b>
<b>2</b>		<b>3</b>
<b>3</b>		<b>5</b>
<b>4</b>	<b>PyCon JP</b>	<b>7</b>
<b>5</b>		<b>9</b>
5.1	Python . . . . .	9
5.2	Python . . . . .	11



---

---

/ @tokibito

2012/09/15 11:00 - 14:15 ()

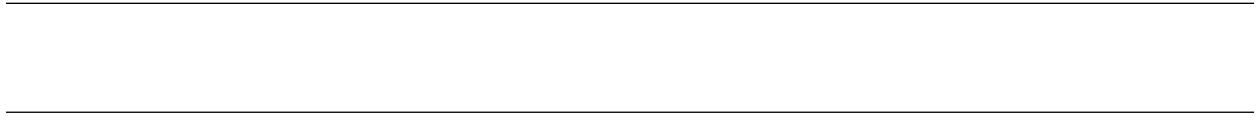
Room 358

Python

- Python
- Python
- 
- Python

-  
-  
-  
-  
-





- Python





- 
- 
- WindowsMacOSXLinux(Ubuntu)OSPC(Python2.7)



---

# PyCon JP

---

- PyCon JP 2012



## 5.1 Python

Python

- Windows, Linux/Unix, Mac OS X
- 
- 
- 
- C/C++

Python Ruby Perl

### 5.1.1 Python

Python

- 
- CUI
- 
- 
- OSAPI
- 

python.org

About - python.org ()

### 5.1.2 Python

PythonPython

## **Blender**

[blender.org](http://blender.org)

[Blender3DCGPython](#)

## **Instagram**

[InstagramiPhone/Android/Python](#)

## **Dropbox**

[Dropbox](#)

[DropboxPython](#)

## **Sublime Text**

[Sublime Text](#)

[Sublime TextPython](#)

## **Battlefield 2 / 2142**

[2142IEA](#)

[Battlefield 2Battlefield 2142PCPythonEAPCPython](#)

[PythonWikipedia](#)

[Python - Wikipedia](#)

### **5.1.3**

[PythonPython](#)

## **5.2 Python**

[PCPythonPython2.7](#)

### **5.2.1 Python**

#### **Windows**

[python.orgWindows](http://python.org/Windows)

[Download Python](#)

## Mac OS X

Mac OS X(10.7, 10.8)Python2.7

python.orgMacMacPorts

## Ubuntu

Ubuntu12.04, 12.10Python2.7aptpython2.7python2.7-dev

## 5.2.2

### IDE

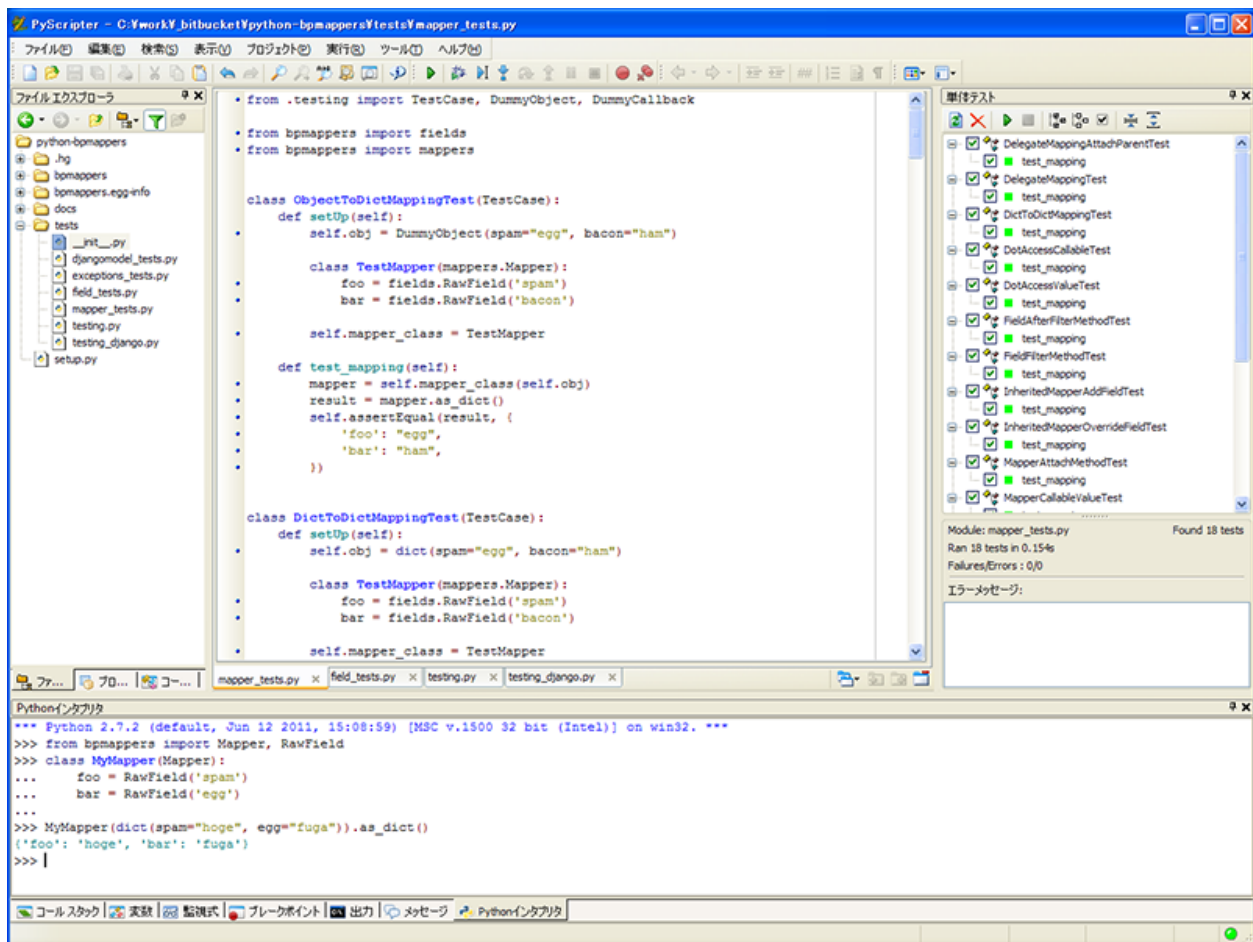


Figure 5.1: PyScripter

WebOS

VMwareVirtualBoxLinuxSSHvimEmacsCUI

```

tokibito@ubuntu: ~
from .testing import TestCase, DummyObject, DummyCallback

from bpmappers import fields
from bpmappers import mappers

class ObjectToDictMappingTest(TestCase):
    def setUp(self):
        self.obj = DummyObject(span="egg", bacon="ham")

        class TestMapper(mappers.Mapper):
            foo = fields.RawField('span')
            bar = fields.RawField('bacon')

        self.mapper_class = TestMapper

    def test_mapping(self):
        mapper = self.mapper_class(self.obj)
        result = mapper.as_dict()
        self.assertEqual(result, {
            'foo': "egg",
            'bar': "ham",
        })

class DictToDictMappingTest(TestCase):
    def setUp(self):
        self.obj = dict(span="egg", bacon="ham")

        class TestMapper(mappers.Mapper):
            foo = fields.RawField('span')
            bar = fields.RawField('bacon')

        self.mapper_class = TestMapper

    def test_mapping(self):
        mapper = self.mapper_class(self.obj)
        result = mapper.as_dict()
        self.assertEqual(result, {
            'foo': "egg",
            'bar': "ham",
        })

from copy import copy

from bpmappers.utils import MultiValueDict, SortedDict
from bpmappers.fields import Field, BaseField
from bpmappers.exceptions import DataError

class Options(object):
    def __init__(self, *args, **kwargs):
        self.fields = MultiValueDict()
        # Use this list to checking for existing name.
        self.field_names = []

    def add_field(self, name, field):
        """Add field"""
        if isinstance(field, Field) and field.key is None:
            field.key = name

        if name in self.field_names:
            # If the field is already registered, remove it.
            lst = self.fields.getlist(field.key)
            self.fields.setlist(field.key, [tp for tp in lst if tp[0] != name])

bpmappers/mappers.py 17,13 Top
from bpmappers.exceptions import InvalidDelegateException

class BaseField(object):
    def __init__(self, callback=None, after_callback=None, *args, **kwargs):
        self.key = None
        self._callback = callback
        self._after_callback = after_callback

    def callback_value(self, value):
        if self._callback is None:
            return value
        return self._callback(value)

    def after_callback_value(self, value):
        if self._after_callback is None:
            return value
        return self._after_callback(value)

    def set_value(self, mapper, value):
        return self.after_callback_value(
tests/mapper_tests.py 18,13 Top bpmappers/fields.py 16,1 Top
[ ubuntu ] [ 0$ bash 1-$ bash (2*$bash) ] [2012-08-23 1:22 ]

```

Figure 5.2: UbuntuSSH(PuTTY)Vim