

概要：python函数；uiautomatorX, API, Demo  
目标：环境搭建，熟练使用api  
作业：使用atx遍历触控板一级菜单|  
详细：

- 参考网址

ATX github: <https://github.com/NetEaseGame/ATX>  
ATX API: <http://atx.readthedocs.io/en/latest/?badge=latest>  
ATX 社区: <https://testerhome.com/topics/node78>

- install opencv

For Win32

```
$ pip install http://o8oookdsx.qnssl.com/opencv_python-2.4.12-cp27-none-win32.whl
```

For AMD64

```
$ pip install http://o8oookdsx.qnssl.com/opencv_python-2.4.12-cp27-none-win_amd64.whl
```

- install uiautomatorX

```
$ pip install --upgrade --pre atx  
# install opencv dependencies  
pip install opencv_contrib_python
```

- 改写脚本

```
#!/usr/bin/env python  
# -*- coding: UTF-8 -*-  
  
import os  
import sys  
import unittest  
import time  
from mylogging import log  
# uiautomatorX 模块  
import atx  
  
# 主设备待测app包名和activity  
appPackage = 'com.android.calculator2'  
  
class Common(object):  
    def __init__(self, driver, log):  
        self._driver = driver  
        self._logger = log  
  
    def start_app(self):  
        self._driver.press.home()  
        self._driver.start_app(appPackage)  
        if self._driver(resourceId="com.android.calculator2:id/formula").wait.exists(timeout=5000):  
            time.sleep(1)  
            self._logger.debug("start cal success")  
            return True  
        else:  
            self._logger.error("start cal timeout")  
            return False  
  
    def cal(self, formula, expect):  
        """  
        1+2, 3  
        """  
        self.clear()  
  
        # 循环点击输入的内容  
        for op in formula:  
            if op is "*":  
                op = "×"  
            if op is "/":  
                op = "÷"  
            self._driver(text=op).click()  
            time.sleep(1)  
            self._logger.debug("Input {0} success".format(op)) # 判断  
  
        self._driver(text=").click()  
        self._logger.info("Expect: {0}".format(expect)) # 打印期望结果  
        time.sleep(2)  
        result = self._driver(resourceId="com.android.calculator2:id/formula").get_text() # 获取计算结果  
  
        if result == expect:  
            self._logger.info("Result: {0} - Success".format(result))  
            return True  
        else:  
            self._logger.error("Result: {0} - Failed".format(result))  
            return False  
  
    def exit_app(self):  
        self._driver.stop_app(appPackage)  
        self._driver.press.home()  
        if not self._driver(resourceId="com.android.calculator2:id/formula").wait.exists(timeout=3000):  
            time.sleep(1)  
            self._logger.debug("exit cal success")  
            return True  
        else:  
            self._logger.error("exit cal failed")  
            return False  
  
    def clear(self):  
        if self._driver(resourceId="com.android.calculator2:id/clr").exists:  
            self._driver(resourceId="com.android.calculator2:id/clr").click()  
            time.sleep(1)  
        if not self._driver(resourceId="com.android.calculator2:id/clr").exists:  
            self._logger.debug('clear success')  
            return True  
        else:  
            self._logger.error('clear failed')  
            return True  
  
class AndroidTestCases(unittest.TestCase):  
    def setUp(self):  
        self._logger = log  
        self._driver = atx.connect()  
        # self._sdriver=Device("")  
        self._mdriver = Common(self._driver, self._logger)  
        if not self._mdriver.start_app():  
            exit(-1)  
  
    def tearDown(self):  
        if not self._mdriver.clear():  
            exit(-1)  
        if not self._mdriver.exit_app():  
            exit(-1)  
  
    def test_one_plus_two(self):  
        if not self._mdriver.cal("1+2", "3"):  
            exit(-1)  
  
    def test_click_imgage(self):  
        self._logger.debug('click the image 1')  
        self._driver.click_image('btn/1.jpg')  
        time.sleep(3)
```