Python 采用协程的责任链模式

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#coding=utf8
import collections
from functools import wraps
ALL EVENTS = "click", "rightmousedown", "dbclick", "leftmousedown"
EVENT DEF = collections.namedtuple("event",ALL EVENTS)
EVENTS = EVENT DEF(*ALL EVENTS)
#定义一个事件发生器
def Events():
 index = 0
 while(True):
    index += 1
    yield ALL EVENTS[index%(len(ALL EVENTS))]
def coroutine(generator):
  @wraps(generator) #特别注意:如果没有functools.wraps,包装之后函数名字会改变
  def gen(*args,**kwargs):
    g = generator(*args,**kwargs)
    next(g)
    return g
  return gen
#定义事件处理链
@coroutine
def clickHandler(successor = None):
 while True:
    event = yield
    if event == EVENTS.click: #每个判断是否是自己能处理的类型
      print("Event {} handled by {}".format(event,clickHandler.__name__))
    elif successor: #不是就看有没有后继,传给后继进行处理
      successor.send(event)
@coroutine
def DBClickHandler(successor = None):
  while True:
    event = yield
    if event == EVENTS.dbclick:
      print("Event {} handled by {}".format(event,DBClickHandler. name ))
    elif successor:
      successor.send(event)
@coroutine
def lefMouseDownHandler(successor = None):
  while True:
    event = yield
    if event == EVENTS.leftmousedown:
      print("Event {} handled by {}".format(event,lefMouseDownHandler.__name__))
    elif successor:
      successor.send(event)
@coroutine
def rightMouseDownHandler(successor = None):
  while True:
    event = yield
    if event == EVENTS.rightmousedown:
      print("Event {} handled by {}".format(event,rightMouseDownHandler. name ))
    elif successor:
      successor.send(event)
if name ==" main ":
  processor = clickHandler(DBClickHandler(lefMouseDownHandler(rightMouseDownHandler())))
```

events = Events()
for _ in range(10):
 event = next(events)
 processor.send(event)