In python, how do I make a class a generator? [duplicate]

Asked 7 years, 5 months ago Modified 5 years, 7 months ago Viewed 410 times



1

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How to build a basic iterator? (10 answers)

Closed 7 years ago.





I'm working with the

I'm working with the varnish API in varnish 4. The way it produces log entries is by Dispatch'ing against it, and passing in a callback. Simple version:

I need to do several more things in self.callback to aggregate the data properly, but whatever.

My REAL question is this: How can I turn the above class into a generator? My ideal usage would be something like this:

```
vlog_inst = vlog()
for log_aggregate in vlog_inst:
    pass
```

Simply putting a 'yield' statement in the callback function never triggers iteration. (surprising to me, adding the yield statement also causes all of my print statements to produce no output as well... I'm obviously missing something.)

python generator

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3 Define __iter__ and next (__next__ in Python 3). There has to be a dup for this. – Ashwini Chaudhary Aug 5, 2015 at 14:28 ▶

Since this is a datasource leveraging a callback, I can't 'restart' iteration with a next() function... the callback has nothing I can give a 'return' data too... and next would force me to 'reconnect' to the log-stream, which would mean I loose data. Also, since the datasource is effectively infinite, generators are a better approach.

Jason Aug 5, 2015 at 14:51

1 Answer

Sorted by:

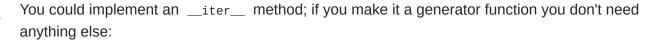
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You want your class to be *iterable*. A generator is a way to implement an iterable, but that's not required to make a class iterable.

2





```
def __iter__(self):
    while True:
        yield self.vlog.Dispatch(self.callback)
```

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answered Aug 5, 2015 at 14:30



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