

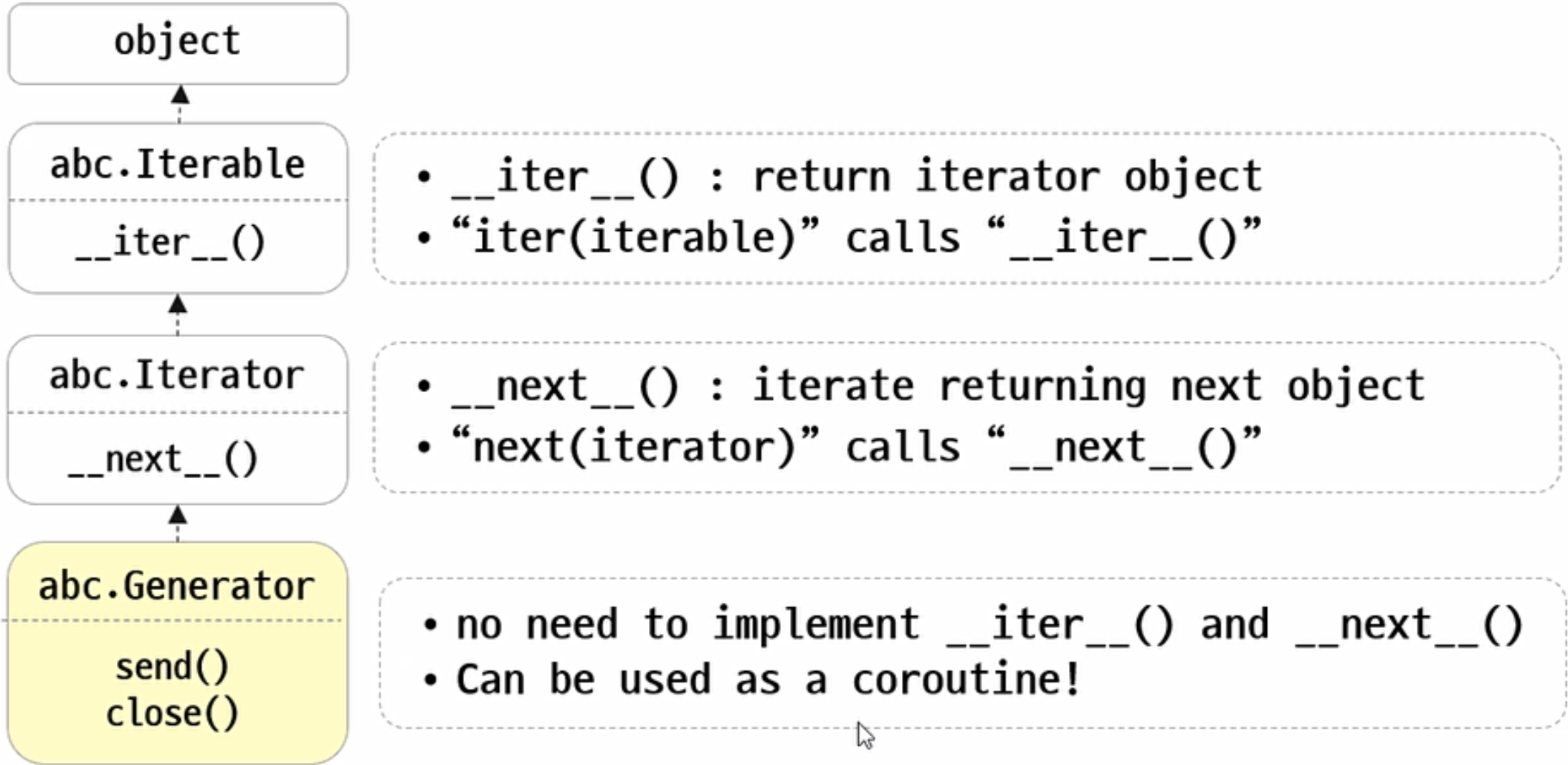
Awww?!

In python,
“Generator is simple”

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‘Generator 1/2’

Awww?!



‘Generator 2/3’

- How generators work like?

- ✓ Generate produce a value and suspend by `next()`
- ✓ “StopIteration” occurs when the produce is ended

`next(generator)`



an object

- What generators are for?

Generate elements, one at the time, and suspend ...

1

Save memory

2

Support iteration pattern, infinite sequences, etc.

‘Generator 2/3’

abc.Iterator

- ✓ need to implement ‘__iter__()’ and ‘__next__()’
- ✓ get from ‘iter(iterable)’

abc.Generator

- ✓ **no need** to implement ‘__iter__()’ and ‘__next__()’

Generator 3/3

- How to make a generator?

1 Make function with the keyword **yield**

2 Generator Expression

<class 'function'>

...
yield value
...



function call



<class 'generator'>

<class 'generator'>

(value for target **in** iterable [if ...])