Iterators

Advanced Python Programming

Valerio Velardo - The Sound of Al

What's an Iterator?

An object that can be iterated upon -> it's possible to traverse all of its values

Must have __iter__(): initialization + return the iterator

- Must have __iter__(): initialization + return the iterator
- Must have __next__(): return next item in the sequence

- Must have __iter__(): initialization + return the iterator
- Must have __next__(): return next item in the sequence
- It should raise *StopIteration* error when the we're over the last element in the sequence

Iterables vs iterators

- List, tuples, dictionaries, strings are iterables
- You can get an iterator out of them using iter()

Why should you define a custom iterator?

Why should you define a custom iterator?

Save memory!