## **Iterator Objects**

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\(cpython-main\) (Doc) (c-api)iterator.rst, line 1)

Unknown directive type "highlight".

.. highlight:: c

Python provides two general-purpose iterator objects. The first, a sequence iterator, works with an arbitrary sequence supporting the meth: \_\_getitem\_\_` method. The second works with a callable object and a sentinel value, calling the callable for each item in the sequence, and ending the iteration when the sentinel value is returned.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\(cpython-main\) (Doc) (c-api)iterator.rst, line 8); backlink

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 $System\,Message: ERROR/3~(\texttt{D:}\conboarding-resources}\copython-main\coc\c-api\copython-main)~(Doc)~(\texttt{c-api})~iterator.rst, line~15)$ 

Unknown directive type "c:var".

.. c:var:: PyTypeObject PySeqIter Type

Type object for iterator objects returned by :c:func:`PySeqIter\_New` and the one-argument form of the :func:`iter` built-in function for built-in sequence types.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\(cpython-main\) (Doc) (c-api) iterator.rst, line 22)

Unknown directive type "c:function".

.. c:function:: int PySeqIter\_Check(op)

Return true if the type of \*op\* is :c:data:`PySeqIter\_Type`. This function always succeeds.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\(cpython-main\) (Doc) (c-api)iterator.rst, line 28)

Unknown directive type "c:function".

.. c:function:: PyObject\* PySeqIter\_New(PyObject \*seq)

Return an iterator that works with a general sequence object, \*seq\*. The iteration ends when the sequence raises :exc:`IndexError` for the subscripting operation.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\((cpython-main)\) (Doc) (c-api)iterator.rst, line 35)

Unknown directive type "c:var".

.. c:var:: PyTypeObject PyCallIter\_Type

Type object for iterator objects returned by :c:func:`PyCallIter\_New` and the two-argument form of the :func:`iter` built-in function.

## main\Doc\c-api\(cpython-main) (Doc) (c-api)iterator.rst, line 41)

## Unknown directive type "c:function".

```
.. c:function:: int PyCallIter_Check(op)
```

Return true if the type of \*op\* is :c:data:  $PyCallIter_Type$ . This function always succeeds.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\((cpython-main)\) (Doc) (c-api) iterator.rst, line 47)

## Unknown directive type "c:function".

```
.. c:function:: PyObject* PyCallIter_New(PyObject *callable, PyObject *sentinel)
```

Return a new iterator. The first parameter, \*callable\*, can be any Python callable object that can be called with no parameters; each call to it should return the next item in the iteration. When \*callable\* returns a value equal to \*sentinel\*, the iteration will be terminated.