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

Unknown interpreted text role "meth".

 $System\,Message: ERROR/3~(\texttt{D:}\onboarding-resources}\cpython-main\Doc\c-api\[cpython-main\][Doc]~[c-api]iterator.rst, \ \textit{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.

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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.

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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.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-

main\Doc\c-api\[cpython-main][Doc][c-api]iterator.rst, line 41)

Unknown directive type "c:function".

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.. 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.