

Generator Objects

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

Unknown directive type "highlight".

```
.. highlight:: c
```

Generator objects are what Python uses to implement generator iterators. They are normally created by iterating over a function that yields values, rather than explicitly calling `c:func:PyGen_New` or `c:func:PyGen_NewWithQualName`.

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Unknown interpreted text role "c:func".

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Unknown interpreted text role "c:func".

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Unknown directive type "c:type".

```
.. c:type:: PyGenObject

    The C structure used for generator objects.
```

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Unknown directive type "c:var".

```
.. c:var:: PyTypeObject PyGen_Type

    The type object corresponding to generator objects.
```

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Unknown directive type "c:function".

```
.. c:function:: int PyGen_Check(PyObject *ob)

    Return true if *ob* is a generator object; *ob* must not be ``NULL``. This
    function always succeeds.
```

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Unknown directive type "c:function".

```
.. c:function:: int PyGen_CheckExact(PyObject *ob)

    Return true if *ob*'s type is c:type:PyGen_Type; *ob* must not be
    ``NULL``. This function always succeeds.
```

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Unknown directive type "c:function".

```
.. c:function:: PyObject* PyGen_New(PyFrameObject *frame)
```

Create and return a new generator object based on the **frame** object.
A reference to **frame** is stolen by this function. The argument must not be
``NULL``.

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Unknown directive type "c:function".

```
.. c:function:: PyObject* PyGen_NewWithQualName(PyFrameObject *frame, PyObject *name, PyObject *qualn
```

Create and return a new generator object based on the **frame** object,
with ``__name__`` and ``__qualname__`` set to **name** and **qualname**.
A reference to **frame** is stolen by this function. The **frame** argument
must not be ``NULL``.