Generator Objects

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

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Unknown directive type "c:type".

.. c:type:: PyGenObject

The ${\ensuremath{\text{C}}}$ structure used for 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 18)

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.. 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.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main] [Doc] [c-api]gen.rst, line 29)

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```
.. 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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```
.. 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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.. 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``.