

Cell Objects

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

Unknown directive type "highlight".

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

"Cell" objects are used to implement variables referenced by multiple scopes. For each such variable, a cell object is created to store the value; the local variables of each stack frame that references the value contains a reference to the cells from outer scopes which also use that variable. When the value is accessed, the value contained in the cell is used instead of the cell object itself. This de-referencing of the cell object requires support from the generated byte-code; these are not automatically de-referenced when accessed. Cell objects are not likely to be useful elsewhere.

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Unknown directive type "c:type".

```
.. c:type:: PyCellObject
```

The C structure used for cell objects.

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Unknown directive type "c:var".

```
.. c:var:: PyTypeObject PyCell_Type
```

The type object corresponding to cell objects.

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Unknown directive type "c:function".

```
.. c:function:: int PyCell_Check(ob)
```

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

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Unknown directive type "c:function".

```
.. c:function:: PyObject* PyCell_New(PyObject *ob)
```

Create and return a new cell object containing the value *ob*. The parameter may be ``NULL``.

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Unknown directive type "c:function".

```
.. c:function:: PyObject* PyCell_Get(PyObject *cell)
```

Return the contents of the cell *cell*.

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Unknown directive type "c:function".

```
.. c:function:: PyObject* PyCell_GET(PyObject *cell)
```

Return the contents of the cell **cell**, but without checking that **cell** is non-`NULL` and a cell object.

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Unknown directive type "c:function".

```
.. c:function:: int PyCell_Set(PyObject *cell, PyObject *value)
```

Set the contents of the cell object **cell** to **value**. This releases the reference to any current content of the cell. **value** may be `NULL`. **cell** must be non-`NULL`; if it is not a cell object, `-1` will be returned. On success, `0` will be returned.

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Unknown directive type "c:function".

```
.. c:function:: void PyCell_SET(PyObject *cell, PyObject *value)
```

Sets the value of the cell object **cell** to **value**. No reference counts are adjusted, and no checks are made for safety; **cell** must be non-`NULL` and must be a cell object.