Code Objects

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

Unknown directive type "highlight".

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

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\(cpython-main) (Doc) (c-api)code.rst, line 5)

Unknown directive type "index".

```
.. index:: object; code, code object
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\(cpython-main) (Doc) (c-api)code.rst, line 10)

Unknown directive type "sectionauthor".

```
.. sectionauthor:: Jeffrey Yasskin <jyasskin@gmail.com>
```

Code objects are a low-level detail of the CPython implementation. Each one represents a chunk of executable code that hasn't yet been bound into a function.

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Unknown directive type "c:type".

```
.. c:type:: PyCodeObject

   The C structure of the objects used to describe code objects.  The
   fields of this type are subject to change at any time.
```

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Unknown directive type "c:var".

```
.. c:var:: PyTypeObject PyCode_Type

   This is an instance of :c:type:`PyTypeObject` representing the Python
   :class:`code` type.
```

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

Unknown directive type "c:function".

```
.. c:function:: int PyCode_Check(PyObject *co)

   Return true if *co* is a :class:`code` object.  This function always succeeds.
```

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Unknown directive type "c:function".

```
.. c:function:: int PyCode_GetNumFree(PyCodeObject *co)

   Return the number of free variables in *co*.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\(cpython-main) (Doc) (c-api)code.rst, line 36)

Unknown directive type "c:function".

```
.. c:function:: PyCodeObject* PyCode_New(int argcount, int kwonlyargcount, int nlocals, int stacksize, int flags, PyObject *code, 

   Return a new code object.  If you need a dummy code object to create a frame,
   use :c:func:`PyCode_NewEmpty` instead.  Calling :c:func:`PyCode_New` directly
   can bind you to a precise Python version since the definition of the bytecode
   changes often.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\(cpython-main) (Doc) (c-api)code.rst, line 43)

Unknown directive type "c:function".

```
.. c:function:: PyCodeObject* PyCode_NewWithPosOnlyArgs(int argcount, int posonlyargcount, int kwonlyargcount, int nlocals, int st

   Similar to :c:func:`PyCode_New`, but with an extra "posonlyargcount" for positional-only arguments.

   .. versionadded:: 3.8
```

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Unknown directive type "c:function".

```
.. c:function:: PyCodeObject* PyCode_NewEmpty(const char *filename, const char *funcname, int firstlineno)

   Return a new empty code object with the specified filename,
   function name, and first line number.  It is illegal to
   :func:`exec` or :func:`eval` the resulting code object.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\(cpython-main) (Doc) (c-api)code.rst, line 55)

Unknown directive type "c:function".

```
.. c:function:: int PyCode_Addr2Line(PyCodeObject *co, int byte_offset)
```

```
   Return the line number of the instruction that occurs on or before ``byte_offset`` and ends after it.
   If you just need the line number of a frame, use :c:func:`PyFrame_GetLineNumber` instead.

   For efficiently iterating over the line numbers in a code object, use `the API described in PEP 626
   <https://peps.python.org/pep-0626/#out-of-process-debuggers-and-profilers>`_.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\(cpython-main)(Doc)(c-api)code.rst, line 63)

Unknown directive type "c:function".

```
.. c:function:: int PyCode_Addr2Location(PyObject *co, int byte_offset, int *start_line, int *start_column, int *end_line, int *en

   Sets the passed ``int`` pointers to the source code line and column numbers
   for the instruction at ``byte_offset``. Sets the value to ``0`` when
   information is not available for any particular element.

   Returns ``1`` if the function succeeds and 0 otherwise.
```