

MemoryView objects

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

Unknown directive type "highlight".

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

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Unknown directive type "index".

```
.. index::  
   object: memoryview
```

A `:class:`memoryview`` object exposes the C level `ref`` buffer interface `<bufferobjects>` as a Python object which can then be passed around like any other object.

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Unknown interpreted text role "class".

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Unknown interpreted text role "ref".

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Unknown directive type "c:function".

```
.. c:function:: PyObject *PyMemoryView_FromObject(PyObject *obj)
```

Create a memoryview object from an object that provides the buffer interface. If `*obj*` supports writable buffer exports, the memoryview object will be read/write, otherwise it may be either read-only or read/write at the discretion of the exporter.

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Unknown directive type "c:function".

```
.. c:function:: PyObject *PyMemoryView_FromMemory(char *mem, Py_ssize_t size, int flags)
```

Create a memoryview object using `*mem*` as the underlying buffer. `*flags*` can be one of `:c:macro:`PyBUF_READ`` or `:c:macro:`PyBUF_WRITE``.

```
.. versionadded:: 3.3
```

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Unknown directive type "c:function".

```
.. c:function:: PyObject *PyMemoryView_FromBuffer(const Py_buffer *view)
```

Create a memoryview object wrapping the given buffer structure `*view*`. For simple byte buffers, `:c:func:`PyMemoryView_FromMemory`` is the preferred function.

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Unknown directive type "c:function".

```
.. c:function:: PyObject *PyMemoryView_GetContiguous(PyObject *obj, int buffertype, char order)
```

Create a memoryview object to a :term:`contiguous` chunk of memory (in either 'C' or 'F' ortran *order*) from an object that defines the buffer interface. If memory is contiguous, the memoryview object points to the original memory. Otherwise, a copy is made and the memoryview points to a new bytes object.

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Unknown directive type "c:function".

```
.. c:function:: int PyMemoryView_Check(PyObject *obj)
```

Return true if the object *obj* is a memoryview object. It is not currently allowed to create subclasses of :class:`memoryview`. This function always succeeds.

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Unknown directive type "c:function".

```
.. c:function:: Py_buffer *PyMemoryView_GET_BUFFER(PyObject *mview)
```

Return a pointer to the memoryview's private copy of the exporter's buffer. *mview* **must** be a memoryview instance; this macro doesn't check its type, you must do it yourself or you will risk crashes.

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Unknown directive type "c:function".

```
.. c:function:: Py_buffer *PyMemoryView_GET_BASE(PyObject *mview)
```

Return either a pointer to the exporting object that the memoryview is based on or ``NULL`` if the memoryview has been created by one of the functions :c:func:`PyMemoryView_FromMemory` or :c:func:`PyMemoryView_FromBuffer`. *mview* **must** be a memoryview instance.