

Byte Array Objects

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

Unknown directive type "highlight".

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

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Unknown directive type "index".

```
.. index:: object: bytearray
```

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Unknown directive type "c:type".

```
.. c:type:: PyByteArrayObject
```

This subtype of :c:type:`PyObject` represents a Python bytearray object.

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Unknown directive type "c:var".

```
.. c:var:: PyTypeObject PyByteArray_Type
```

This instance of :c:type:`PyTypeObject` represents the Python bytearray type; it is the same object as :class:`bytearray` in the Python layer.

Type check macros

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Unknown directive type "c:function".

```
.. c:function:: int PyByteArray_Check(PyObject *o)
```

Return true if the object *o* is a bytearray object or an instance of a subtype of the bytearray type. This function always succeeds.

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Unknown directive type "c:function".

```
.. c:function:: int PyByteArray_CheckExact(PyObject *o)
```

Return true if the object *o* is a bytearray object, but not an instance of a subtype of the bytearray type. This function always succeeds.

Direct API functions

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Unknown directive type "c:function".

```
.. c:function:: PyObject* PyByteArray_FromObject(PyObject *o)
```

Return a new bytearray object from any object, *o*, that implements the :ref:`buffer protocol <bufferobjects>`.

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Unknown directive type "c:function".

```
.. c:function:: PyObject* PyByteArray_FromStringAndSize(const char *string, Py_ssize_t len)
```

Create a new bytearray object from *string* and its length, *len*. On failure, ``NULL`` is returned.

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Unknown directive type "c:function".

```
.. c:function:: PyObject* PyByteArray_Concat(PyObject *a, PyObject *b)
```

Concat bytearrays *a* and *b* and return a new bytearray with the result.

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Unknown directive type "c:function".

```
.. c:function:: Py_ssize_t PyByteArray_Size(PyObject *bytearray)
```

Return the size of *bytearray* after checking for a ``NULL`` pointer.

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Unknown directive type "c:function".

```
.. c:function:: char* PyByteArray_AsString(PyObject *bytearray)
```

Return the contents of *bytearray* as a char array after checking for a ``NULL`` pointer. The returned array always has an extra null byte appended.

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Unknown directive type "c:function".

```
.. c:function:: int PyByteArray_Resize(PyObject *bytearray, Py_ssize_t len)
```

Resize the internal buffer of *bytearray* to *len*.

Macros

These macros trade safety for speed and they don't check pointers.

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main\Doc\c-api\[cpython-main] [Doc] [c-api] bytearray.rst, line 78)

Unknown directive type "c:function".

```
.. c:function:: char* PyByteArray_AS_STRING(PyObject *bytearray)

    Macro version of :c:func:`PyByteArray_AsString`.
```

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Unknown directive type "c:function".

```
.. c:function:: Py_ssize_t PyByteArray_GET_SIZE(PyObject *bytearray)

    Macro version of :c:func:`PyByteArray_Size`.
```