

Instance Method Objects

An instance method is a wrapper for a [PyCFunction](#) and the new way to bind a [PyCFunction](#) to a class object. It replaces the former call `PyMethod_New(func, NULL, class)`.

[PyObject](#) **PyInstanceMethod_Type**

This instance of [PyObject](#) represents the Python instance method type. It is not exposed to Python programs.

int PyInstanceMethod_Check([PyObject](#) *o)

Return true if *o* is an instance method object (has type [PyInstanceMethod_Type](#)). The parameter must not be *NULL*.

[PyObject](#)* **PyInstanceMethod_New**([PyObject](#) *func)

Return a new instance method object, with *func* being any callable object *func* is the function that will be called when the instance method is called.

[PyObject](#)* **PyInstanceMethod_Function**([PyObject](#) *im)

Return the function object associated with the instance method *im*.

[PyObject](#)* **PyInstanceMethod_GET_FUNCTION**([PyObject](#) *im)

Macro version of [PyInstanceMethod_Function\(\)](#) which avoids error checking.

Method Objects

Methods are bound function objects. Methods are always bound to an instance of a user-defined class. Unbound methods (methods bound to a class object) are no longer available.

[PyObject](#) **PyMethod_Type**

This instance of [PyObject](#) represents the Python method type. This is exposed to Python programs as `types.MethodType`.

int PyMethod_Check([PyObject](#) *o)

Return true if *o* is a method object (has type [PyMethod_Type](#)). The parameter must not be *NULL*.

[PyObject](#)* **PyMethod_New**([PyObject](#) *func, [PyObject](#) *self)

Return value: New reference.

Return a new method object, with *func* being any callable object and *self* the instance the method should be bound. *func* is the function that will be called when the method is called. *self* must not be *NULL*.

PyObject* **PyMethod_Function**(PyObject *meth)

Return value: Borrowed reference.

Return the function object associated with the method *meth*.

PyObject* **PyMethod_GET_FUNCTION**(PyObject *meth)

Return value: Borrowed reference.

Macro version of **PyMethod_Function()** which avoids error checking.

PyObject* **PyMethod_Self**(PyObject *meth)

Return value: Borrowed reference.

Return the instance associated with the method *meth*.

PyObject* **PyMethod_GET_SELF**(PyObject *meth)

Return value: Borrowed reference.

Macro version of **PyMethod_Self()** which avoids error checking.

int **PyMethod_ClearFreeList**()

Clear the free list. Return the total number of freed items.