

:mod:`pyclbr` --- Python module browser support

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]pyclbr.rst, line 1); [backlink](#)

Unknown interpreted text role "mod".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]pyclbr.rst, line 4)

Unknown directive type "module".

```
.. module:: pyclbr
   :synopsis: Supports information extraction for a Python module browser.
```

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Unknown directive type "sectionauthor".

```
.. sectionauthor:: Fred L. Drake, Jr. <fdrake@acm.org>
```

Source code: :source:`Lib/pyclbr.py`

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Unknown interpreted text role "source".

The `:mod:`pyclbr`` module provides limited information about the functions, classes, and methods defined in a Python-coded module. The information is sufficient to implement a module browser. The information is extracted from the Python source code rather than by importing the module, so this module is safe to use with untrusted code. This restriction makes it impossible to use this module with modules not implemented in Python, including all standard and optional extension modules.

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Unknown interpreted text role "mod".

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Unknown directive type "function".

```
.. function:: readmodule(module, path=None)

Return a dictionary mapping module-level class names to class
descriptors. If possible, descriptors for imported base classes are
included. Parameter *module* is a string with the name of the module
to read; it may be the name of a module within a package. If given,
*path* is a sequence of directory paths prepended to ``sys.path``,
which is used to locate the module source code.

This function is the original interface and is only kept for back
compatibility. It returns a filtered version of the following.
```

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Unknown directive type "function".

```
.. function:: readmodule_ex(module, path=None)

Return a dictionary-based tree containing a function or class
```

descriptors for each function and class defined in the module with a `def` or `class` statement. The returned dictionary maps module-level function and class names to their descriptors. Nested objects are entered into the children dictionary of their parent. As with `readmodule`, `*module*` names the module to be read and `*path*` is prepended to `sys.path`. If the module being read is a package, the returned dictionary has a key `'__path__'` whose value is a list containing the package search path.

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Unknown directive type "versionadded".

```
.. versionadded:: 3.7
    Descriptors for nested definitions. They are accessed through the
    new children attribute. Each has a new parent attribute.
```

The descriptors returned by these functions are instances of `Function` and `Class` classes. Users are not expected to create instances of these classes.

Function Objects

Class `:class:`Function`` instances describe functions defined by `def` statements. They have the following attributes:

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Unknown interpreted text role "class".

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Unknown directive type "attribute".

```
.. attribute:: Function.file
    Name of the file in which the function is defined.
```

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Unknown directive type "attribute".

```
.. attribute:: Function.module
    The name of the module defining the function described.
```

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Unknown directive type "attribute".

```
.. attribute:: Function.name
    The name of the function.
```

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Unknown directive type "attribute".

```
.. attribute:: Function.lineno
    The line number in the file where the definition starts.
```

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Unknown directive type "attribute".

```
.. attribute:: Function.parent
```

For top-level functions, None. For nested functions, the parent.

```
.. versionadded:: 3.7
```

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Unknown directive type "attribute".

```
.. attribute:: Function.children
```

A dictionary mapping names to descriptors for nested functions and classes.

```
.. versionadded:: 3.7
```

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Unknown directive type "attribute".

```
.. attribute:: Function.is_async
```

``True`` for functions that are defined with the ``async`` prefix, ``False`` otherwise.

```
.. versionadded:: 3.10
```

Class Objects

Class `:class:`Class`` instances describe classes defined by class statements. They have the same attributes as Functions and two more.

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Unknown interpreted text role "class".

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Unknown directive type "attribute".

```
.. attribute:: Class.file
```

Name of the file in which the class is defined.

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Unknown directive type "attribute".

```
.. attribute:: Class.module
```

The name of the module defining the class described.

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Unknown directive type "attribute".

```
.. attribute:: Class.name

    The name of the class.
```

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Unknown directive type "attribute".

```
.. attribute:: Class.lineno

    The line number in the file where the definition starts.
```

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Unknown directive type "attribute".

```
.. attribute:: Class.parent

    For top-level classes, None.  For nested classes, the parent.

.. versionadded:: 3.7
```

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Unknown directive type "attribute".

```
.. attribute:: Class.children

    A dictionary mapping names to descriptors for nested functions and
    classes.

.. versionadded:: 3.7
```

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Unknown directive type "attribute".

```
.. attribute:: Class.super

    A list of :class:`Class` objects which describe the immediate base
    classes of the class being described.  Classes which are named as
    superclasses but which are not discoverable by :func:`readmodule_ex`
    are listed as a string with the class name instead of as
    :class:`Class` objects.
```

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Unknown directive type "attribute".

```
.. attribute:: Class.methods

    A dictionary mapping method names to line numbers.  This can be
    derived from the newer children dictionary, but remains for
    back-compatibility.
```

