: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".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main)(Doc)(library)pyclbr.rst, line 65)

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.
```