

:mod:`nntplib` --- NNTP protocol client

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

Unknown directive type "module".

```
.. module:: nntplib
   :synopsis: NNTP protocol client (requires sockets).
   :deprecated:
```

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

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]nntplib.rst, line 8); [backlink](#)

Unknown interpreted text role "source".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]nntplib.rst, line 10)

Unknown directive type "index".

```
.. index::
   pair: NNTP; protocol
   single: Network News Transfer Protocol
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]nntplib.rst, line 14)

Unknown directive type "deprecated".

```
.. deprecated:: 3.11
   The :mod:`nntplib` module is deprecated (see :pep:`594` for details).
```

This module defines the class `:class:`NNTP`` which implements the client side of the Network News Transfer Protocol. It can be used to implement a news reader or poster, or automated news processors. It is compatible with [RFC 3977](#) as well as the older [RFC 977](#) and [RFC 2980](#).

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]nntplib.rst, line 19); [backlink](#)

Unknown interpreted text role "class".

Here are two small examples of how it can be used. To list some statistics about a newsgroup and print the subjects of the last 10 articles:

```
>>> s = nntplib.NNTP('news.gmane.io')
>>> resp, count, first, last, name = s.group('gmane.comp.python.committers')
>>> print('Group', name, 'has', count, 'articles, range', first, 'to', last)
Group gmane.comp.python.committers has 1096 articles, range 1 to 1096
>>> resp, overviews = s.over((last - 9, last))
>>> for id, over in overviews:
...     print(id, nntplib.decode_header(over['subject']))
...
1087 Re: Commit privileges for Łukasz Langa
1088 Re: 3.2 alpha 2 freeze
1089 Re: 3.2 alpha 2 freeze
1090 Re: Commit privileges for Łukasz Langa
1091 Re: Commit privileges for Łukasz Langa
1092 Updated ssh key
```

```

1093 Re: Updated ssh key
1094 Re: Updated ssh key
1095 Hello fellow committers!
1096 Re: Hello fellow committers!
>>> s.quit()
'205 Bye!'

```

To post an article from a binary file (this assumes that the article has valid headers, and that you have right to post on the particular newsgroup):

```

>>> s = nntplib.NNTP('news.gmane.io')
>>> f = open('article.txt', 'rb')
>>> s.post(f)
'240 Article posted successfully.'
>>> s.quit()
'205 Bye!'

```

The module itself defines the following classes:

Return a new `:class:`NNTP`` object, representing a connection to the NNTP server running on host *host*, listening at port *port*. An optional *timeout* can be specified for the socket connection. If the optional *user* and *password* are provided, or if suitable credentials are present in `:file:`~.netrc`` and the optional flag *usenetr* is true, the `AUTHINFO USER` and `AUTHINFO PASS` commands are used to identify and authenticate the user to the server. If the optional flag *readermode* is true, then a `mode reader` command is sent before authentication is performed. Reader mode is sometimes necessary if you are connecting to an NNTP server on the local machine and intend to call reader-specific commands, such as `group`. If you get unexpected `:exc:`NNTPPermanentError``'s, you might need to set *readermode*. The `:class:`NNTP`` class supports the `:keyword:`with`` statement to unconditionally consume `:exc:`OSError`` exceptions and to close the NNTP connection when done, e.g.:

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]nntplib.rst, line 63); [backlink](#)

Unknown interpreted text role "class".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]nntplib.rst, line 63); [backlink](#)

Unknown interpreted text role "file".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]nntplib.rst, line 63); [backlink](#)

Unknown interpreted text role "exc".

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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]nntplib.rst, line 63); [backlink](#)

Unknown interpreted text role "keyword".

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Unknown interpreted text role "exc".

```

>>> from nntplib import NNTP
>>> with NNTP('news.gmane.io') as n:
...     n.group('gmane.comp.python.committers')
... # doctest: +SKIP
('211 1755 1 1755 gmane.comp.python.committers', 1755, 1, 1755, 'gmane.comp.python.committers')
>>>

```

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Unknown directive type "audit-event".

```
.. audit-event:: nntplib.connect self,host,port nntplib.NNTP
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]nntplib.rst, line 88)

Unknown directive type "audit-event".

```
.. audit-event:: nntplib.putline self,line nntplib.NNTP
```

```
All commands will raise an :ref:`auditing event <auditing>`
``nntplib.putline`` with arguments ``self`` and ``line``,
where ``line`` is the bytes about to be sent to the remote host.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]nntplib.rst, line 94)

Unknown directive type "versionchanged".

```
.. versionchanged:: 3.2
   *usenetr* is now ``False`` by default.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]nntplib.rst, line 97)

Unknown directive type "versionchanged".

```
.. versionchanged:: 3.3
   Support for the :keyword:`with` statement was added.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]nntplib.rst, line 100)

Unknown directive type "versionchanged".

```
.. versionchanged:: 3.9
   If the *timeout* parameter is set to be zero, it will raise a
   :class:`ValueError` to prevent the creation of a non-blocking socket.
```

Return a new :class:`NNTP_SSL` object, representing an encrypted connection to the NNTP server running on host *host*, listening at port *port*. :class:`NNTP_SSL` objects have the same methods as :class:`NNTP` objects. If *port* is omitted, port 563 (NNTPS) is used. *ssl_context* is also optional, and is a :class:`~ssl.SSLContext` object. Please read :ref:`ssl-security` for best practices. All other parameters behave the same as for :class:`NNTP`.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]nntplib.rst, line 106); [backlink](#)

Unknown interpreted text role "class".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]nntplib.rst, line 106); [backlink](#)

Unknown interpreted text role "class".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]nntplib.rst, line 106); [backlink](#)

Unknown interpreted text role "class".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]nntplib.rst, line 106); [backlink](#)

Unknown interpreted text role "class".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-

main\Doc\library\[cpython-main] [Doc] [library]nntplib.rst, line 106); [backlink](#)

Unknown interpreted text role "ref".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]nntplib.rst, line 106); [backlink](#)

Unknown interpreted text role "class".

Note that SSL-on-563 is discouraged per [RFC 4642](#), in favor of STARTTLS as described below. However, some servers only support the former.

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Unknown directive type "audit-event".

```
.. audit-event:: nntplib.connect self,host,port nntplib.NNTP_SSL
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]nntplib.rst, line 120)

Unknown directive type "audit-event".

```
.. audit-event:: nntplib.putline self,line nntplib.NNTP_SSL
```

```
All commands will raise an :ref:`auditing event <auditing>`  
``nntplib.putline`` with arguments ``self`` and ``line``,  
where ``line`` is the bytes about to be sent to the remote host.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]nntplib.rst, line 126)

Unknown directive type "versionadded".

```
.. versionadded:: 3.2
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]nntplib.rst, line 128)

Unknown directive type "versionchanged".

```
.. versionchanged:: 3.4  
The class now supports hostname check with  
:attr:`ssl.SSLContext.check_hostname` and *Server Name Indication* (see  
:data:`ssl.HAS_SNI`).
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]nntplib.rst, line 133)

Unknown directive type "versionchanged".

```
.. versionchanged:: 3.9  
If the *timeout* parameter is set to be zero, it will raise a  
:class:`ValueError` to prevent the creation of a non-blocking socket.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]nntplib.rst, line 137)

Unknown directive type "exception".

```
.. exception:: NNTPErrror
```

```
Derived from the standard exception :exc:`Exception`, this is the base  
class for all exceptions raised by the :mod:`nntplib` module. Instances  
of this class have the following attribute:
```

```
.. attribute:: response
```

The response of the server if available, as a `:class:`str`` object.

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Unknown directive type "exception".

```
.. exception:: NNTPReplyError
```

Exception raised when an unexpected reply is received from the server.

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Unknown directive type "exception".

```
.. exception:: NNTPTemporaryError
```

Exception raised when a response code in the range 400--499 is received.

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Unknown directive type "exception".

```
.. exception:: NNTPPermanentError
```

Exception raised when a response code in the range 500--599 is received.

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Unknown directive type "exception".

```
.. exception:: NNTPProtocolError
```

Exception raised when a reply is received from the server that does not begin with a digit in the range 1--5.

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Unknown directive type "exception".

```
.. exception:: NNTPDataError
```

Exception raised when there is some error in the response data.

NNTP Objects

When connected, `:class:`NNTP`` and `:class:`NNTP_SSL`` objects support the following methods and attributes.

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Unknown interpreted text role "class".

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Unknown interpreted text role "class".

Attributes

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Unknown directive type "attribute".

```
.. attribute:: NNTP.nntp_version
```

An integer representing the version of the NNTP protocol supported by the server. In practice, this should be ``2`` for servers advertising :rfc:`3977` compliance and ``1`` for others.

```
.. versionadded:: 3.2
```

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Unknown directive type "attribute".

```
.. attribute:: NNTP.nntp_implementation
```

A string describing the software name and version of the NNTP server, or :const:`None` if not advertised by the server.

```
.. versionadded:: 3.2
```

Methods

The *response* that is returned as the first item in the return tuple of almost all methods is the server's response: a string beginning with a three-digit code. If the server's response indicates an error, the method raises one of the above exceptions.

Many of the following methods take an optional keyword-only argument *file*. When the *file* argument is supplied, it must be either a **term**: 'file object' opened for binary writing, or the name of an on-disk file to be written to. The method will then write any data returned by the server (except for the response line and the terminating dot) to the file; any list of lines, tuples or objects that the method normally returns will be empty.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]nntplib.rst, line 208); [backlink](#)

Unknown interpreted text role "term".

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Unknown directive type "versionchanged".

```
.. versionchanged:: 3.2
```

Many of the following methods have been reworked and fixed, which makes them incompatible with their 3.1 counterparts.

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Unknown directive type "method".

```
.. method:: NNTP.quit()
```

Send a ``QUIT`` command and close the connection. Once this method has been called, no other methods of the NNTP object should be called.

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Unknown directive type "method".

```
.. method:: NNTP.getwelcome()
```

Return the welcome message sent by the server in reply to the initial connection. (This message sometimes contains disclaimers or help information that may be relevant to the user.)

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Unknown directive type "method".

```
.. method:: NNTP.getcapabilities()
```

Return the :rfc:`3977` capabilities advertised by the server, as a :class:`dict` instance mapping capability names to (possibly empty) lists of values. On legacy servers which don't understand the ``CAPABILITIES`` command, an empty dictionary is returned instead.

```
>>> s = NNTP('news.gmane.io')
>>> 'POST' in s.getcapabilities()
True
```

```
.. versionadded:: 3.2
```

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Unknown directive type "method".

```
.. method:: NNTP.login(user=None, password=None, usenetrc=True)
```

Send ``AUTHINFO`` commands with the user name and password. If **user** and **password** are ``None`` and **usetrc** is true, credentials from ``~/.netrc`` will be used if possible.

Unless intentionally delayed, login is normally performed during the :class:`NNTP` object initialization and separately calling this function is unnecessary. To force authentication to be delayed, you must not set **user** or **password** when creating the object, and must set **usetrc** to False.

```
.. versionadded:: 3.2
```

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Unknown directive type "method".

```
.. method:: NNTP.starttls(context=None)
```

Send a ``STARTTLS`` command. This will enable encryption on the NNTP connection. The **context** argument is optional and should be a :class:`ssl.SSLContext` object. Please read :ref:`ssl-security` for best practices.

Note that this may not be done after authentication information has been transmitted, and authentication occurs by default if possible during a :class:`NNTP` object initialization. See :meth:`NNTP.login` for information on suppressing this behavior.

```
.. versionadded:: 3.2
```

```
.. versionchanged:: 3.4
```

The method now supports hostname check with :attr:`ssl.SSLContext.check_hostname` and **Server Name Indication** (see :data:`ssl.HAS_SNI`).

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Unknown directive type "method".

```
.. method:: NNTP.newgroups(date, *, file=None)
```

Send a ``NEWGROUPS`` command. The **date** argument should be a :class:`datetime.date` or :class:`datetime.datetime` object. Return a pair ``(response, groups)`` where **groups** is a list representing the groups that are new since the given **date**. If **file** is supplied, though, then **groups** will be empty.

```
>>> from datetime import date, timedelta
>>> resp, groups = s.newgroups(date.today() - timedelta(days=3))
>>> len(groups) # doctest: +SKIP
85
>>> groups[0] # doctest: +SKIP
GroupInfo(group='gmene.network.tor.devel', last='4', first='1', flag='m')
```

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Unknown directive type "method".

```
.. method:: NNTP.newnews(group, date, *, file=None)
```

Send a ``NEWNEWS`` command. Here, **group** is a group name or ``'*'``, and **date** has the same meaning as for :meth:`newgroups`. Return a pair ``(response, articles)`` where **articles** is a list of message ids.

This command is frequently disabled by NNTP server administrators.

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Unknown directive type "method".

```
.. method:: NNTP.list(group_pattern=None, *, file=None)
```

Send a ``LIST`` or ``LIST ACTIVE`` command. Return a pair ``(response, list)`` where **list** is a list of tuples representing all the groups available from this NNTP server, optionally matching the pattern string **group_pattern**. Each tuple has the form ``(group, last, first, flag)`` where **group** is a group name, **last** and **first** are the last and first article numbers, and **flag** usually takes one of these values:

- * ``y``: Local postings and articles from peers are allowed.
- * ``m``: The group is moderated and all postings must be approved.
- * ``n``: No local postings are allowed, only articles from peers.
- * ``j``: Articles from peers are filed in the junk group instead.
- * ``x``: No local postings, and articles from peers are ignored.
- * ``=foo.bar``: Articles are filed in the ``foo.bar`` group instead.

If **flag** has another value, then the status of the newsgroup should be considered unknown.

This command can return very large results, especially if **group_pattern** is not specified. It is best to cache the results offline unless you really need to refresh them.

```
.. versionchanged:: 3.2
   *group_pattern* was added.
```

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Unknown directive type "method".

```
.. method:: NNTP.descriptions(grouppattern)
```

Send a ``LIST NEWSGROUPS`` command, where **grouppattern** is a wildmat string as specified in :rfc:3977 (it's essentially the same as DOS or UNIX shell wildcard strings). Return a pair ``(response, descriptions)`` where **descriptions**

is a dictionary mapping group names to textual descriptions.

```
>>> resp, descs = s.descriptions('gmane.comp.python.*')
>>> len(descs) # doctest: +SKIP
295
>>> descs.popitem() # doctest: +SKIP
('gmane.comp.python.bio.general', 'BioPython discussion list (Moderated)')
```

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Unknown directive type "method".

```
.. method:: NNTP.description(group)
```

Get a description for a single group **group**. If more than one group matches (if 'group' is a real wildmat string), return the first match. If no group matches, return an empty string.

This elides the response code from the server. If the response code is needed, use `:meth:`descriptions``.

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Unknown directive type "method".

```
.. method:: NNTP.group(name)
```

Send a ```GROUP``` command, where **name** is the group name. The group is selected as the current group, if it exists. Return a tuple ```(response, count, first, last, name)``` where **count** is the (estimated) number of articles in the group, **first** is the first article number in the group, **last** is the last article number in the group, and **name** is the group name.

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Unknown directive type "method".

```
.. method:: NNTP.over(message_spec, *, file=None)
```

Send an ```OVER``` command, or an ```XOVER``` command on legacy servers. **message_spec** can be either a string representing a message id, or a ```(first, last)``` tuple of numbers indicating a range of articles in the current group, or a ```(first, None)``` tuple indicating a range of articles starting from **first** to the last article in the current group, or `:const:`None`` to select the current article in the current group.

Return a pair ```(response, overviews)```. **overviews** is a list of ```(article_number, overview)``` tuples, one for each article selected by **message_spec**. Each **overview** is a dictionary with the same number of items, but this number depends on the server. These items are either message headers (the key is then the lower-cased header name) or metadata items (the key is then the metadata name prepended with ```:"```). The following items are guaranteed to be present by the NNTP specification:

- * the ```subject```, ```from```, ```date```, ```message-id``` and ```references``` headers
- * the ```:bytes``` metadata: the number of bytes in the entire raw article (including headers and body)
- * the ```:lines``` metadata: the number of lines in the article body

The value of each item is either a string, or `:const:`None`` if not present.

It is advisable to use the `:func:`decode_header`` function on header values when they may contain non-ASCII characters::

```
>>> _, _, first, last, _ = s.group('gmane.comp.python.devel')
>>> resp, overviews = s.over((last, last))
>>> art_num, over = overviews[0]
```

```
>>> art_num
117216
>>> list(over.keys())
['xref', 'from', ':lines', ':bytes', 'references', 'date', 'message-id', 'subject']
>>> over['from']
'=?UTF-8?B?Ik1hcnRpbIB2LiBMw7Z3aXMi?= <martin@v.loewis.de>'
>>> nntplib.decode_header(over['from'])
'"Martin v. Löwis" <martin@v.loewis.de>'

.. versionadded:: 3.2
```

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Unknown directive type "method".

```
.. method:: NNTP.help(*, file=None)

Send a ``HELP`` command. Return a pair ``(response, list)`` where *list* is a
list of help strings.
```

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Unknown directive type "method".

```
.. method:: NNTP.stat(message_spec=None)

Send a ``STAT`` command, where *message_spec* is either a message id
(enclosed in ``'<'`` and ``'>'``) or an article number in the current group.
If *message_spec* is omitted or :const:`None`, the current article in the
current group is considered. Return a triple ``(response, number, id)``
where *number* is the article number and *id* is the message id.

>>> _, _, first, last, _ = s.group('gmane.comp.python.devel')
>>> resp, number, message_id = s.stat(first)
>>> number, message_id
(9099, '<20030112190404.GE29873@epoch.metaslash.com>')
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main][Doc][library]nntplib.rst, line 431)

Unknown directive type "method".

```
.. method:: NNTP.next()

Send a ``NEXT`` command. Return as for :meth:`.stat`.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main][Doc][library]nntplib.rst, line 436)

Unknown directive type "method".

```
.. method:: NNTP.last()

Send a ``LAST`` command. Return as for :meth:`.stat`.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main][Doc][library]nntplib.rst, line 441)

Unknown directive type "method".

```
.. method:: NNTP.article(message_spec=None, *, file=None)

Send an ``ARTICLE`` command, where *message_spec* has the same meaning as
for :meth:`.stat`. Return a tuple ``(response, info)`` where *info*
```

is a :class:`collections.namedtuple` with three attributes **number**, **message_id** and **lines** (in that order). **number** is the article number in the group (or 0 if the information is not available), **message_id** the message id as a string, and **lines** a list of lines (without terminating newlines) comprising the raw message including headers and body.

```
>>> resp, info = s.article('<20030112190404.GE29873@epoch.metaslash.com>')
>>> info.number
0
>>> info.message_id
'<20030112190404.GE29873@epoch.metaslash.com>'
>>> len(info.lines)
65
>>> info.lines[0]
b'Path: main.gmane.org!not-for-mail'
>>> info.lines[1]
b'From: Neal Norwitz <neal@metaslash.com>'
>>> info.lines[-3:]
[b'There is a patch for 2.3 as well as 2.2.', b'', b'Neal']
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]nntplib.rst, line 466)

Unknown directive type "method".

```
.. method:: NNTP.head(message_spec=None, *, file=None)
```

Same as :meth:`article()`, but sends a ``HEAD`` command. The **lines** returned (or written to **file**) will only contain the message headers, not the body.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]nntplib.rst, line 473)

Unknown directive type "method".

```
.. method:: NNTP.body(message_spec=None, *, file=None)
```

Same as :meth:`article()`, but sends a ``BODY`` command. The **lines** returned (or written to **file**) will only contain the message body, not the headers.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]nntplib.rst, line 480)

Unknown directive type "method".

```
.. method:: NNTP.post(data)
```

Post an article using the ``POST`` command. The **data** argument is either a :term:`file object` opened for binary reading, or any iterable of bytes objects (representing raw lines of the article to be posted). It should represent a well-formed news article, including the required headers. The :meth:`post` method automatically escapes lines beginning with ``.`` and appends the termination line.

If the method succeeds, the server's response is returned. If the server refuses posting, a :class:`NNTPReplyError` is raised.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]nntplib.rst, line 493)

Unknown directive type "method".

```
.. method:: NNTP.ihave(message_id, data)
```

Send an ``IHAVE`` command. **message_id** is the id of the message to send to the server (enclosed in ``<'' and ''>``). The **data** parameter and the return value are the same as for :meth:`post()`.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main][Doc][library]nntplib.rst, line 500)

Unknown directive type "method".

```
.. method:: NNTP.date()
```

Return a pair ``(response, date)``. *date* is a :class:`~datetime.datetime` object containing the current date and time of the server.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main][Doc][library]nntplib.rst, line 506)

Unknown directive type "method".

```
.. method:: NNTP.slave()
```

Send a ``SLAVE`` command. Return the server's *response*.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main][Doc][library]nntplib.rst, line 511)

Unknown directive type "method".

```
.. method:: NNTP.set_debuglevel(level)
```

Set the instance's debugging level. This controls the amount of debugging output printed. The default, ``0``, produces no debugging output. A value of ``1`` produces a moderate amount of debugging output, generally a single line per request or response. A value of ``2`` or higher produces the maximum amount of debugging output, logging each line sent and received on the connection (including message text).

The following are optional NNTP extensions defined in [RFC 2980](#). Some of them have been superseded by newer commands in [RFC 3977](#).

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main][Doc][library]nntplib.rst, line 525)

Unknown directive type "method".

```
.. method:: NNTP.xhdr(hdr, str, *, file=None)
```

Send an ``XHDR`` command. The *hdr* argument is a header keyword, e.g. ``subject``. The *str* argument should have the form ``'first-last'`` where *first* and *last* are the first and last article numbers to search. Return a pair ``(response, list)`` where *list* is a list of pairs ``(id, text)`` where *id* is an article number (as a string) and *text* is the text of the requested header for that article. If the *file* parameter is supplied, then the output of the ``XHDR`` command is stored in a file. If *file* is a string, then the method will open a file with that name, write to it then close it. If *file* is a :term:`file object`, then it will start calling :meth:`write` on it to store the lines of the command output. If *file* is supplied, then the returned *list* is an empty list.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main][Doc][library]nntplib.rst, line 540)

Unknown directive type "method".

```
.. method:: NNTP.xover(start, end, *, file=None)
```

Send an ``XOVER`` command. *start* and *end* are article numbers delimiting the range of articles to select. The return value is the same of for :meth:`over()`. It is recommended to use :meth:`over()``

instead, since it will automatically use the newer ``OVER`` command if available.

Utility functions

The module also defines the following utility function:

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]nntplib.rst, line 555)

Unknown directive type "function".

```
.. function:: decode_header(header_str)
```

Decode a header value, un-escaping any escaped non-ASCII characters. *header_str* must be a :class:`str` object. The unescaped value is returned. Using this function is recommended to display some headers in a human readable form::

```
>>> decode_header("Some subject")
'Some subject'
>>> decode_header("=?ISO-8859-15?Q?D=E9buter_en_Python?=")
'Débuter en Python'
>>> decode_header("Re: =?UTF-8?B?cHJvYmzDqG1lIGRlIG1hdHJpY2U=?=")
'Re: problème de matrice'
```