: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: 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.

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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 usenetrc 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".

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 "keyword".

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".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library) nntplib.rst, line 86)

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
 *usenetrc* 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".

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.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library) nntplib.rst, line 118)

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:: NNTPError

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.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library) nntplib.rst, line 148)

Unknown directive type "exception".

.. exception:: NNTPReplyError

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

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library) nntplib.rst, line 153)

Unknown directive type "exception".

.. exception:: NNTPTemporaryError

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

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library) nntplib.rst, line 158)

Unknown directive type "exception".

.. exception:: NNTPPermanentError

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

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library) nntplib.rst, line 163)

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".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library) nntplib.rst, line 179); backlink

Attributes

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library) nntplib.rst, line 185)

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
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library) nntplib.rst, line 193)

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".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library) nntplib.rst, line 215)

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.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library) nntplib.rst, line 220)

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.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library) nntplib.rst, line 226)

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.)

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library) nntplib.rst, line 233)

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

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library) nntplib.rst, line 247)

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 *usenetrc* 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 *usenetrc* to False.

.. versionadded:: 3.2

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library) nntplib.rst, line 262)

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`).

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='gmane.network.tor.devel', last='4', first='1', flag='m')
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library) nntplib.rst, line 297)

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.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library) nntplib.rst, line 306)

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:
   \mbox{\ensuremath{\star}} ``y``: Local postings and articles from peers are allowed.
   \mbox{\ensuremath{\star}} ''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.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library) nntplib.rst, line 334)

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)')
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library) nntplib.rst, line 348)

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`.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library) nntplib.rst, line 358)

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.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library) nntplib.rst, line 368)

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
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library) nntplib.rst, line 411)

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.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library) nntplib.rst, line 417)

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:

'Débuter en Python'

'Re: problème de matrice'

```
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?=")
```

>>> decode_header("Re: =?UTF-8?B?cHJvYmzDqG1lIGRlIG1hdHJpY2U=?=")