:mod:`gzip` --- Support for :program:`gzip` files

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Unknown interpreted text role "mod".

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

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Unknown directive type 'module''.

```
.. module:: gzip
    :synopsis: Interfaces for gzip compression and decompression using file objects.
```

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

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This module provides a simple interface to compress and decompress files just like the GNU programs :programs 'gzip' and :programs 'gunzip' would.

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System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]gzip.rst, line 11); backlink

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The data compression is provided by the :mod: 'zlib' module.

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The :mod: 'gzip' module provides the :class: 'GzipFile' class, as well as the :func: 'copen', :func: 'compress' and :func: 'decompress' convenience functions. The :class: 'GzipFile' class reads and writes :program' gzip'-format files, automatically compressing or decompressing the data so that it looks like an ordinary :term: 'file object'.

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main\Doc\library\[cpython-main][Doc][library]gzip.rst, line 16); backlink
Unknown interpreted text role "func".

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Unknown interpreted text role "func".

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Note that additional file formats which can be decompressed by the "program" 'gzip' and "program" 'gunzip' programs, such as those produced by "program" compress' and "program" pack', are not supported by this module.

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System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]gzip.rst, line 22); backlink

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The module defines the following items:

Unknown directive type "function".

```
.. function:: open(filename, mode='rb', compresslevel=9, encoding=None, errors=None, newline=None)
Open a gzip-compressed file in binary or text mode, returning a :term:`file
object`.

The *filename* argument can be an actual filename (a :class:`str` or
:class:`bytes` object), or an existing file object to read from or write to.

The *mode* argument can be any of ``'r'``, ``'rb'``, ``'a'``, ``'ab'``,
```

```
``'w'``, ``'wb'``, ``'x'`` or ``'xb'`` for binary mode, or ``'rt'``,
``'at'``, ``'wt'``, or ``'xt'`` for text mode. The default is ``'rb'``.
The *compresslevel* argument is an integer from 0 to 9, as for the
:class:`GzipFile` constructor.
For binary mode, this function is equivalent to the :class:`GzipFile`
constructor: ``GzipFile(filename, mode, compresslevel)``. In this case, the
*encoding*, *errors* and *newline* arguments must not be provided.
For text mode, a :class:`GzipFile` object is created, and wrapped in an
:class:`io.TextIOWrapper` instance with the specified encoding, error
handling behavior, and line ending(s).
.. versionchanged:: 3.3
   Added support for *filename* being a file object, support for text mode,
   and the *encoding*, *errors* and *newline* arguments.
.. versionchanged:: 3.4
   Added support for the ``'x'``, ``'xb'`` and ``'xt'`` modes.
.. versionchanged:: 3.6
   Accepts a :term: `path-like object`.
```

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-
main\Doc\library\[cpython-main][Doc][library]gzip.rst, line 62)
Unknown directive type "exception".
    .. exception: BadGzipFile
    An exception raised for invalid gzip files. It inherits :exc:`OSError`.
    :exc:`EOFError` and :exc:`zlib.error` can also be raised for invalid gzip files.
    .. versionadded:: 3.8
```

Constructor for the class: GzipFile' class, which simulates most of the methods of a term' file object', with the exception of the meth.'truncate' method. At least one of *fileobj* and *filename* must be given a non-trivial value.

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Unknown interpreted text role "class".

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Unknown interpreted text role "term".

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The new class instance is based on *fileobj*, which can be a regular file, an :class:`io.BytesIO` object, or any other object which simulates a file. It defaults to None, in which case *filename* is opened to provide a file object.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]gzip.rst, line 77); backlink

Unknown interpreted text role "class".

When *fileobj* is not None, the *filename* argument is only used to be included in the <u>program' grip'</u> file header, which may include the original filename of the uncompressed file. It defaults to the filename of *fileobj*, if discernible; otherwise, it defaults to the empty string, and in this case the original filename is not included in the header.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]gzip.rst, line 82); backlink

Unknown interpreted text role "program".

The *mode* argument can be any of 'r', 'rb', 'a', 'ab', 'w', 'wb', 'x', or 'xb', depending on whether the file will be read or written. The default is the mode of *fileobj* if discernible; otherwise, the default is 'rb'. In future Python releases the mode of *fileobj* will not be used. It is better to always specify *mode* for writing.

Note that the file is always opened in binary mode. To open a compressed file in text mode, use :func:`.open` (or wrap your :class:`GzipFile` with an :class:`io.TextIOWrapper`).

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Unknown interpreted text role "func".

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

Unknown interpreted text role "class".

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

Unknown interpreted text role "class".

The *compresslevel* argument is an integer from 0 to 9 controlling the level of compression; 1 is fastest and produces the least compression, and 9 is slowest and produces the most compression. 0 is no compression. The default is 9.

The *mtime* argument is an optional numeric timestamp to be written to the last modification time field in the stream when compressing. It should only be provided in compression mode. If omitted or None, the current time is used. See the :attr:\mtime\text{ attr:\mtime\text{ attr:\m

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]gzip.rst, line 103); backlink

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Calling a <code>class:`GzipFile`</code> object's <code>meth:`close`</code> method does not close <code>fileobj</code>, since you might wish to append more material after the compressed data. This also allows you to pass an <code>class:`io.BytesIO</code> object opened for writing as <code>fileobj</code>, and retrieve the resulting memory buffer using the <code>class:`io.BytesIO</code> object's <code>meth:`~io.BytesIO.getvalue</code>` method.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]gzip.rst, line 108); backlink

Unknown interpreted text role "class".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]gzip.rst, line 108); backlink

Unknown interpreted text role "meth".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]gzip.rst, line 108); backlink

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Unknown interpreted text role "class".

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Unknown interpreted text role "meth".

class: 'GzipFile' supports the class: 'io. BufferedIOBase' interface, including iteration and the keyword: with' statement. Only the method isn't implemented.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]gzip.rst, line 114); backlink

Unknown interpreted text role "class".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]gzip.rst, line 114); backlink

Unknown interpreted text role "class".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]gzip.rst, line 114); backlink

Unknown interpreted text role "keyword".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]gzip.rst, line 114); backlink

Unknown interpreted text role "meth".

:class: `GzipFile` also provides the following method and attribute:

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]gzip.rst, line 118); backlink

Unknown interpreted text role "class".

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

Unknown directive type 'method'.

.. method:: peek(n)

Read *n* uncompressed bytes without advancing the file position. At most one single read on the compressed stream is done to satisfy the call. The number of bytes returned may be more or less than requested.

- .. note:: While calling :meth:`peek` does not change the file position of the :class:`GzipFile`, it may change the position of the underlying file object (e.g. if the :class:`GzipFile` was constructed with the *fileobj* parameter).
- .. versionadded:: 3.2

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]gzip.rst, line 134)

Unknown directive type "attribute".

.. attribute:: mtime

When decompressing, the value of the last modification time field in the most recently read header may be read from this attribute, as an integer. The initial value before reading any headers is ``None``.

All :program: `gzip` compressed streams are required to contain this timestamp field. Some programs, such as :program: `gunzip`\ , make use of the timestamp. The format is the same as the return value of :func: `time.time` and the :attr: `~os.stat_result.st_mtime` attribute of the object returned by :func: `os.stat`.

Unknown directive type "versionchanged".

```
.. versionchanged:: 3.1
   Support for the :keyword:`with` statement was added, along with the
   *mtime* constructor argument and :attr:`mtime` attribute.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]gzip.rst, line 150)

Unknown directive type "versionchanged".

```
.. versionchanged:: 3.2
Support for zero-padded and unseekable files was added.
```

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

Unknown directive type "versionchanged".

```
.. versionchanged:: 3.3
The :meth: `io.BufferedIOBase.read1` method is now implemented.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]gzip.rst, line 156)

Unknown directive type "versionchanged".

```
.. versionchanged:: 3.4
  Added support for the ``'x'`` and ``'xb'`` modes.
```

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Unknown directive type "versionchanged".

```
.. versionchanged:: 3.5
  Added support for writing arbitrary
  :term:`bytes-like objects <bytes-like object>`.
  The :meth:`~io.BufferedIOBase.read` method now accepts an argument of
  ``None``.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]gzip.rst, line 165)

Unknown directive type "versionchanged".

```
.. versionchanged:: 3.6
  Accepts a :term:`path-like object`.
```

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Unknown directive type "deprecated".

```
.. deprecated:: 3.9
   Opening :class:`GzipFile` for writing without specifying the *mode*
   argument is deprecated.
```

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Unknown directive type "function".

```
.. function:: compress(data, compresslevel=9, *, mtime=None)
```

```
Compress the *data*, returning a :class:`bytes` object containing the compressed data. *compresslevel* and *mtime* have the same meaning as in the :class:`GzipFile` constructor above. When *mtime* is set to ``0``, this function is equivalent to :func:`zlib.compress` with *wbits* set to ``31``. The zlib function is faster.
```

```
.. versionadded:: 3.2
.. versionchanged:: 3.8
  Added the *mtime* parameter for reproducible output.
```

```
.. versionchanged:: 3.11
Speed is improved by compressing all data at once instead of in a streamed fashion. Calls with *mtime* set to ``0`` are delegated to :func:`zlib.compress` for better speed.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]gzip.rst, line 189)

Unknown directive type "function".

.. function:: decompress(data)

Decompress the *data*, returning a :class:`bytes` object containing the uncompressed data. This function is capable of decompressing multi-member gzip data (multiple gzip blocks concatenated together). When the data is certain to contain only one member the :func:`zlib.decompress` function with *wbits* set to 31 is faster.

- .. versionadded:: 3.2
- .. versionchanged:: 3.11

Speed is improved by decompressing members at once in memory instead of in a streamed fashion.

Examples of usage

Example of how to read a compressed file:

```
import gzip
with gzip.open('/home/joe/file.txt.gz', 'rb') as f:
    file_content = f.read()
```

Example of how to create a compressed GZIP file:

```
import gzip
content = b"Lots of content here"
with gzip.open('/home/joe/file.txt.gz', 'wb') as f:
          f.write(content)
```

Example of how to GZIP compress an existing file:

```
import gzip
import shutil
with open('/home/joe/file.txt', 'rb') as f_in:
    with gzip.open('/home/joe/file.txt.gz', 'wb') as f_out:
        shutil.copyfileobj(f in, f out)
```

Example of how to GZIP compress a binary string:

```
import gzip
s_in = b"Lots of content here"
s out = gzip.compress(s in)
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]gzip.rst, line 234)

Unknown directive type "seealso".

```
.. seealso::
   Module :mod:`zlib`
     The basic data compression module needed to support the :program:`gzip` file format.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]gzip.rst, line 241)

Unknown directive type 'program'.

```
.. program:: gzip
```

Command Line Interface

The mod: 'gzip' module provides a simple command line interface to compress or decompress files.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]gzip.rst, line 246); backlink

Unknown interpreted text role 'mod'.

Once executed the <u>mod</u>' gzip' module keeps the input file(s).

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]gzip.rst, line 249); backlink

Unknown interpreted text role "mod".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]gzip.rst, line 251)

Unknown directive type "versionchanged".

```
.. versionchanged:: 3.8

Add a new command line interface with a usage.

By default, when you will execute the CLI, the default compression level is 6.
```

Command line options

Unknown directive type "cmdoption".

```
.. cmdoption:: file
   If *file* is not specified, read from :attr:`sys.stdin`.
```

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Unknown directive type "cmdoption".

```
.. cmdoption:: --fast

Indicates the fastest compression method (less compression).
```

 $System\,Message:\,ERROR/3\, (\mbox{D:\nonlinear-resources}\xspaces) ample-onboarding-resources\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\xspaces\$

Unknown directive type "cmdoption".

```
\ldots cmdoption:: --best  \label{localization} \mbox{Indicates the slowest compression method (best compression).}
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]gzip.rst, line 271)

Unknown directive type "cmdoption".

```
.. cmdoption:: -d, --decompress
Decompress the given file.
```

Unknown directive type "cmdoption".

```
.. cmdoption:: -h, --help
```

Show the help message.