

:mod:`linecache` --- Random access to text lines

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

Unknown directive type "module".

```
.. module:: linecache
   :synopsis: Provides random access to individual lines from text files.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)linecache.rst, line 7)

Unknown directive type "sectionauthor".

```
.. sectionauthor:: Moshe Zadka <moshez@zadka.site.co.il>
```

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

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Unknown interpreted text role "source".

The :mod:`linecache` module allows one to get any line from a Python source file, while attempting to optimize internally, using a cache, the common case where many lines are read from a single file. This is used by the :mod:`traceback` module to retrieve source lines for inclusion in the formatted traceback.

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Unknown interpreted text role "mod".

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Unknown interpreted text role "mod".

The :func:`tokenize.open` function is used to open files. This function uses :func:`tokenize.detect_encoding` to get the encoding of the file; in the absence of an encoding token, the file encoding defaults to UTF-8.

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Unknown interpreted text role "func".

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Unknown interpreted text role "func".

The :mod:`linecache` module defines the following functions:

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Unknown interpreted text role "mod".

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Unknown directive type "function".

```
.. function:: getline(filename, lineno, module_globals=None)

Get line *lineno* from file named *filename*. This function will never raise an
exception --- it will return ``''`` on errors (the terminating newline character
will be included for lines that are found).

.. index:: triple: module; search; path

If a file named *filename* is not found, the function first checks
for a :pep:`302` ``__loader__`` in *module_globals*.
If there is such a loader and it defines a ``get_source`` method,
then that determines the source lines
(if ``get_source()`` returns ``None``, then ``''`` is returned).
Finally, if *filename* is a relative filename,
it is looked up relative to the entries in the module search path, ``sys.path``.
```

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Unknown directive type "function".

```
.. function:: clearcache()

Clear the cache. Use this function if you no longer need lines from files
previously read using :func:`getline`.
```

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Unknown directive type "function".

```
.. function:: checkcache(filename=None)

Check the cache for validity. Use this function if files in the cache may have
changed on disk, and you require the updated version. If *filename* is omitted,
it will check all the entries in the cache.
```

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Unknown directive type "function".

```
.. function:: lazycache(filename, module_globals)

Capture enough detail about a non-file-based module to permit getting its
lines later via :func:`getline` even if *module_globals* is ``None`` in the later
call. This avoids doing I/O until a line is actually needed, without having
to carry the module globals around indefinitely.

.. versionadded:: 3.5
```

Example:

```
>>> import linecache
>>> linecache.getline(linecache.__file__, 8)
'import sys\n'
```