

:mod:`urllib.error` --- Exception classes raised by urllib.request

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

Unknown directive type "module".

```
.. module:: urllib.error
   :synopsis: Exception classes raised by urllib.request.
```

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

Unknown directive type "moduleauthor".

```
.. moduleauthor:: Jeremy Hylton <jeremy@alum.mit.edu>
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)urllib.error.rst, line 8)

Unknown directive type "sectionauthor".

```
.. sectionauthor:: Senthil Kumaran <orsenthil@gmail.com>
```

Source code: :source:`Lib/urllib/error.py`

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

Unknown interpreted text role "source".

The :mod:`urllib.error` module defines the exception classes for exceptions raised by :mod:`urllib.request`. The base exception class is :exc:`URLError`.

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

Unknown interpreted text role "mod".

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

Unknown interpreted text role "mod".

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

Unknown interpreted text role "exc".

The following exceptions are raised by :mod:`urllib.error` as appropriate:

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)urllib.error.rst, line 17); [backlink](#)

Unknown interpreted text role "mod".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)urllib.error.rst, line 19)

Unknown directive type "exception".

```
.. exception:: URLError
```

The handlers raise this exception (or derived exceptions) when they run into a problem. It is a subclass of :exc:`OSError`.

```
.. attribute:: reason
```

The reason for this error. It can be a message string or another exception instance.

```
.. versionchanged:: 3.3
```

:exc:`URLError` has been made a subclass of :exc:`OSError` instead of :exc:`IOError`.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)urllib.error.rst, line 34)

Unknown directive type "exception".

```
.. exception:: HTTPError
```

Though being an exception (a subclass of :exc:`URLError`), an :exc:`HTTPError` can also function as a non-exceptional file-like return value (the same thing that :func:`~urllib.request.urlopen` returns). This is useful when handling exotic HTTP errors, such as requests for authentication.

```
.. attribute:: code
```

An HTTP status code as defined in :rfc:`2616`. This numeric value corresponds to a value found in the dictionary of codes as found in :attr:`http.server.BaseHTTPRequestHandler.responses`.

```
.. attribute:: reason
```

This is usually a string explaining the reason for this error.

```
.. attribute:: headers
```

The HTTP response headers for the HTTP request that caused the :exc:`HTTPError`.

```
.. versionadded:: 3.4
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)urllib.error.rst, line 59)

Unknown directive type "exception".

```
.. exception:: ContentTooShortError(msg, content)
```

This exception is raised when the :func:`~urllib.request.urlretrieve` function detects that the amount of the downloaded data is less than the expected amount (given by the *Content-Length* header). The :attr:`content` attribute stores the downloaded (and supposedly truncated) data.