

:mod:`urllib.robotparser` --- Parser for robots.txt

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

Unknown directive type "module".

```
.. module:: urllib.robotparser
   :synopsis: Load a robots.txt file and answer questions about
             fetchability of other URLs.
```

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

Unknown directive type "sectionauthor".

```
.. sectionauthor:: Skip Montanaro <skip@pobox.com>
```

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

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

Unknown interpreted text role "source".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]urllib.robotparser.rst, line 12)

Unknown directive type "index".

```
.. index::
   single: WWW
   single: World Wide Web
   single: URL
   single: robots.txt
```

This module provides a single class, :class:`RobotFileParser`, which answers questions about whether or not a particular user agent can fetch a URL on the web site that published the :file:`robots.txt` file. For more details on the structure of :file:`robots.txt` files, see <http://www.robotstxt.org/orig.html>.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]urllib.robotparser.rst, line 20); [backlink](#)

Unknown interpreted text role "class".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]urllib.robotparser.rst, line 20); [backlink](#)

Unknown interpreted text role "file".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]urllib.robotparser.rst, line 20); [backlink](#)

Unknown interpreted text role "file".

This class provides methods to read, parse and answer questions about the :file:`robots.txt` file at *url*.

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Unknown interpreted text role "file".

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Unknown directive type "method".

```
.. method:: set_url(url)
```

Sets the URL referring to a `:file:`robots.txt`` file.

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Unknown directive type "method".

```
.. method:: read()
```

Reads the `:file:`robots.txt`` URL and feeds it to the parser.

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Unknown directive type "method".

```
.. method:: parse(lines)
```

Parses the lines argument.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]urllib.robotparser.rst, line 43)

Unknown directive type "method".

```
.. method:: can_fetch(useragent, url)
```

Returns ```True``` if the `*useragent*` is allowed to fetch the `*url*` according to the rules contained in the parsed `:file:`robots.txt`` file.

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Unknown directive type "method".

```
.. method:: mtime()
```

Returns the time the ```robots.txt``` file was last fetched. This is useful for long-running web spiders that need to check for new ```robots.txt``` files periodically.

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Unknown directive type "method".

```
.. method:: modified()
```

Sets the time the ```robots.txt``` file was last fetched to the current time.

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Unknown directive type "method".

```
.. method:: crawl_delay(useragent)
```

Returns the value of the ``Crawl-delay`` parameter from ``robots.txt`` for the *useragent* in question. If there is no such parameter or it doesn't apply to the *useragent* specified or the ``robots.txt`` entry for this parameter has invalid syntax, return ``None``.

```
.. versionadded:: 3.6
```

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Unknown directive type "method".

```
.. method:: request_rate(useragent)
```

Returns the contents of the ``Request-rate`` parameter from ``robots.txt`` as a :term:`named tuple` ``RequestRate(requests, seconds)``. If there is no such parameter or it doesn't apply to the *useragent* specified or the ``robots.txt`` entry for this parameter has invalid syntax, return ``None``.

```
.. versionadded:: 3.6
```

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Unknown directive type "method".

```
.. method:: site_maps()
```

Returns the contents of the ``Sitemap`` parameter from ``robots.txt`` in the form of a :func:`list`. If there is no such parameter or the ``robots.txt`` entry for this parameter has invalid syntax, return ``None``.

```
.. versionadded:: 3.8
```

The following example demonstrates basic use of the :class:`RobotFileParser` class:

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]urllib.robotparser.rst, line 89); [backlink](#)

Unknown interpreted text role "class".

```
>>> import urllib.robotparser
>>> rp = urllib.robotparser.RobotFileParser()
>>> rp.set_url("http://www.musi-cal.com/robots.txt")
>>> rp.read()
>>> rrate = rp.request_rate("*")
>>> rrate.requests
3
>>> rrate.seconds
20
>>> rp.crawl_delay("*")
6
>>> rp.can_fetch("", "http://www.musi-cal.com/cgi-bin/search?city=San+Francisco")
False
>>> rp.can_fetch("", "http://www.musi-cal.com/")
True
```