:mod:`http` --- HTTP modules

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

Unknown directive type "module".

```
.. module:: http
    :synopsis: HTTP status codes and messages
```

Source code: :source:`Lib/http/ init .py`

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]http.rst, line 7); backlink

Unknown interpreted text role "source".

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Unknown directive type "index".

```
.. index::
   pair: HTTP; protocol
   single: HTTP; http (standard module)
```

.mod: http` is a package that collects several modules for working with the HyperText Transfer Protocol:

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]http.rst, line 15); backlink

Unknown interpreted text role "mod".

• :mod: http.client' is a low-level HTTP protocol client; for high-level URL opening use :mod: 'urllib.request'

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System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main][Doc][library]http.rst, line 18); backlink
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System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]http.rst, line 18); backlink

Unknown interpreted text role 'mod'.

:mod: http.server` contains basic HTTP server classes based on :mod: socketserver`

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

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

backlink

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• :mod: http.cookies` has utilities for implementing state management with cookies

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```

Unknown interpreted text role "mod".

• :mod:`http.cookiejar` provides persistence of cookies

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

Unknown interpreted text role "mod".
```

mod: http' is also a module that defines a number of HTTP status codes and associated messages through the

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System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]http.rst, line 24); backlink
```

Unknown interpreted text role "mod".

:class:'http.HTTPStatus' enum:

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System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]http.rst, line 24); backlink
```

Unknown interpreted text role "class".

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System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]http.rst, line 29)

Unknown directive type "versionadded".
```

.. versionadded:: 3.5

A subclass of class: enum IntEnum that defines a set of HTTP status codes, reason phrases and long descriptions written in English.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]http.rst, line 31); backlink

Unknown interpreted text role "class".

Usage:

```
>>> from http import HTTPStatus
>>> HTTPStatus.OK
HTTPStatus.OK
>>> HTTPStatus.OK == 200
True
>>> HTTPStatus.OK.value
200
>>> HTTPStatus.OK.phrase
'OK'
>>> HTTPStatus.OK.description
'Request fulfilled, document follows'
>>> list(HTTPStatus)
[HTTPStatus.CONTINUE, HTTPStatus.SWITCHING PROTOCOLS, ...]
```

HTTP status codes

Supported, IANA-registered status codes available in :class: http.HTTPStatus' are:

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-

$\verb|main|Doc|library|[cpython-main][Doc][library]| | \verb|http.rst|, | line 55||; | backlink||$

Unknown interpreted text role "class".

100 101 102 103 200 201	CONTINUE SWITCHING_PROTOCOLS PROCESSING	HTTP/1.1 RFC 7231, Section 6.2.1 HTTP/1.1 RFC 7231, Section 6.2.2
102 103 200 201	PROCESSING	HTTP/1.1 RFC 7231, Section 6.2.2
103 200 201		
200 201		WebDAV RFC 2518, Section 10.1
201	EARLY HINTS	An HTTP Status Code for Indicating Hints RFC 8297
201	OK _	HTTP/1.1 RFC 7231, Section 6.3.1
	CREATED	HTTP/1.1 RFC 7231, Section 6.3.2
202	ACCEPTED	HTTP/1.1 RFC 7231, Section 6.3.3
203	NON AUTHORITATIVE INFORMATION	HTTP/1.1 RFC 7231, Section 6.3.4
204		HTTP/1.1 RFC 7231, Section 6.3.5
	NO_CONTENT	HTTP/1.1 RFC 7231, Section 6.3.6
205	RESET_CONTENT	·
206	PARTIAL_CONTENT	HTTP/1.1 RFC 7233, Section 4.1
207	MULTI_STATUS	WebDAV RFC 4918, Section 11.1
208	ALREADY_REPORTED	WebDAV Binding Extensions RFC 5842, Section 7.1 (Experimental)
226	IM_USED	Delta Encoding in HTTP RFC 3229, Section 10.4.1
300	MULTIPLE_CHOICES	HTTP/1.1 RFC 7231, Section 6.4.1
301	MOVED_PERMANENTLY	HTTP/1.1 RFC 7231, Section 6.4.2
302	FOUND	HTTP/1.1 RFC 7231, Section 6.4.3
303	SEE_OTHER	HTTP/1.1 RFC 7231, Section 6.4.4
304	NOT MODIFIED	HTTP/1.1 RFC 7232, Section 4.1
305	USE PROXY	HTTP/1.1 RFC 7231, Section 6.4.5
307	TEMPORARY REDIRECT	HTTP/1.1 RFC 7231, Section 6.4.7
308	PERMANENT REDIRECT	Permanent Redirect RFC 7238, Section 3 (Experimental)
400	BAD_REQUEST	HTTP/1.1 RFC 7231, Section 6.5.1
401	UNAUTHORIZED	HTTP/1.1 Authentication RFC 7235, Section 3.1
402	PAYMENT REQUIRED	HTTP/1.1 RFC 7231, Section 6.5.2
403	FORBIDDEN	HTTP/1.1 RFC 7231, Section 6.5.3
		HTTP/1.1 RFC 7231, Section 6.5.4
404	NOT_FOUND	HTTP/1.1 RFC 7231, Section 6.5.5
405	METHOD_NOT_ALLOWED	· · · · · · · · · · · · · · · · · · ·
406	NOT_ACCEPTABLE	HTTP/1.1 RFC 7231, Section 6.5.6
407	PROXY_AUTHENTICATION_REQUIRED	HTTP/1.1 Authentication RFC 7235, Section 3.2
408	REQUEST_TIMEOUT	HTTP/1.1 RFC 7231, Section 6.5.7
409	CONFLICT	HTTP/1.1 RFC 7231, Section 6.5.8
410	GONE	HTTP/1.1 RFC 7231, Section 6.5.9
411	LENGTH_REQUIRED	HTTP/1.1 RFC 7231, Section 6.5.10
412	PRECONDITION_FAILED	HTTP/1.1 RFC 7232, Section 4.2
413	REQUEST_ENTITY_TOO_LARGE	HTTP/1.1 RFC 7231, Section 6.5.11
414	REQUEST_URI_TOO_LONG	HTTP/1.1 RFC 7231, Section 6.5.12
415	UNSUPPORTED_MEDIA_TYPE	HTTP/1.1 RFC 7231, Section 6.5.13
416	REQUESTED_RANGE_NOT_SATISFIABLE	HTTP/1.1 Range Requests RFC 7233, Section 4.4
417	EXPECTATION_FAILED	HTTP/1.1 RFC 7231, Section 6.5.14
418	IM_A_TEAPOT	HTCPCP/1.0 RFC 2324, Section 2.3.2
421	MISDIRECTED_REQUEST	HTTP/2 RFC 7540, Section 9.1.2
422	UNPROCESSABLE ENTITY	WebDAV RFC 4918, Section 11.2
423	LOCKED	WebDAV RFC 4918, Section 11.3
424	FAILED DEPENDENCY	WebDAV RFC 4918, Section 11.4
425	TOO EARLY	Using Early Data in HTTP RFC 8470
426	UPGRADE REQUIRED	HTTP/1.1 RFC 7231, Section 6.5.15
428	PRECONDITION REQUIRED	Additional HTTP Status Codes RFC 6585
429	TOO MANY REQUESTS	Additional HTTP Status Codes RFC 6585
431		Additional HTTP Status Codes RFC 6585
		An HTTP Status Code to Report Legal Obstacles RFC 7725
451	UNAVAILABLE_FOR_LEGAL_REASONS	1 0
500	INTERNAL_SERVER_ERROR	HTTP/1.1 RFC 7231, Section 6.6.1
501	NOT_IMPLEMENTED	HTTP/1.1 RFC 7231, Section 6.6.2
502	BAD_GATEWAY	HTTP/1.1 RFC 7231, Section 6.6.3
503	SERVICE_UNAVAILABLE	HTTP/1.1 RFC 7231, Section 6.6.4
504	GATEWAY_TIMEOUT	HTTP/1.1 RFC 7231, Section 6.6.5

Code	Enum Name	Details
505	HTTP_VERSION_NOT_SUPPORTED	HTTP/1.1 RFC 7231, Section 6.6.6
506	VARIANT_ALSO_NEGOTIATES	Transparent Content Negotiation in HTTP RFC 2295, Section 8.1
		(Experimental)
507	INSUFFICIENT_STORAGE	WebDAV RFC 4918, Section 11.5
508	LOOP_DETECTED	WebDAV Binding Extensions RFC 5842, Section 7.2 (Experimental)
510	NOT_EXTENDED	An HTTP Extension Framework RFC 2774, Section 7 (Experimental)
511	NETWORK_AUTHENTICATION_REQUIRED	Additional HTTP Status Codes RFC 6585, Section 6

In order to preserve backwards compatibility, enum values are also present in the module in the form of constants. The enum name is equal to the constant name (i.e. <a href="https://h

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]http.rst, line 126); backlink

Unknown interpreted text role "mod".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]http.rst, line 131)

Unknown directive type "versionchanged".

```
.. versionchanged:: 3.7
Added ``421 MISDIRECTED_REQUEST`` status code.
```

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

Unknown directive type "versionadded".

```
.. versionadded:: 3.8
Added ``451 UNAVAILABLE_FOR_LEGAL_REASONS`` status code.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]http.rst, line 137)

Unknown directive type "versionadded".

```
.. versionadded:: 3.9
Added ``103 EARLY_HINTS``, ``418 IM_A_TEAPOT`` and ``425 TOO_EARLY`` status codes.
```