

## APPENDIX F

# HTTP Status Codes

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The HyperText Transfer Protocol (HTTP) is an application-level protocol for distributed, collaborative, hypermedia information systems. It is a generic, stateless protocol that can be used for many tasks (e.g., name servers and distributed object management systems) beyond its use for hypertext through extension of its request methods, error codes, and headers. An important feature of HTTP is the typing and negotiation of data representation, which allows systems to be built independently of the data being transferred.

HTTP/1.0 is described in RFC 1945. HTTP/1.1 is the latest version of the specification, and as of this writing HTTP/1.1 is covered in RFC 2616.

Only a small subset of HTTP response codes usually is used when writing `mod_perl` applications, but sometimes you need to know others as well. We will list the codes here. Their names are fairly self-explanatory, but you can find extended explanations in the appropriate RFC (see section 9 in RFC 1945 and section 10 in RFC 2616). You can always find the latest links to these RFCs at the World Wide Web Consortium's site, <http://www.w3.org/Protocols/>.

While HTTP/1.1 is widely supported, HTTP/1.0 still remains the mainstream standard. Therefore, we will supply a summary for each version, including the corresponding Apache constants.

In `mod_perl`, these constants can be accessed via the `Apache::Constants` package (e.g., to access the `HTTP_OK` constant, use `Apache::Constants::HTTP_OK`). See the `Apache::Constants` manpage for more information.

## HTTP/1.0 Status Codes

Successful 2xx:

200 HTTP\_OK  
201 HTTP\_CREATED

202 HTTP\_ACCEPTED  
204 HTTP\_NO\_CONTENT

Redirection 3xx:

300 HTTP\_MOVED\_PERMANENTLY  
301 HTTP\_MOVED\_TEMPORARILY  
302 HTTP\_SEE\_OTHER  
304 HTTP\_NOT\_MODIFIED

Client Error 4xx:

400 HTTP\_BAD\_REQUEST  
401 HTTP\_UNAUTHORIZED  
403 HTTP\_FORBIDDEN  
404 HTTP\_NOT\_FOUND

Server Error 5xx:

500 HTTP\_INTERNAL\_SERVER\_ERROR  
501 HTTP\_NOT\_IMPLEMENTED  
502 HTTP\_BAD\_GATEWAY  
503 HTTP\_SERVICE\_UNAVAILABLE

## HTTP/1.1 Status Codes

Informational 1xx:

100 HTTP\_CONTINUE  
101 HTTP\_SWITCHING\_PROTOCOLS

Successful 2xx:

200 HTTP\_OK  
201 HTTP\_CREATED  
202 HTTP\_ACCEPTED  
203 HTTP\_NON\_AUTHORITATIVE  
204 HTTP\_NO\_CONTENT  
205 HTTP\_RESET\_CONTENT  
206 HTTP\_PARTIAL\_CONTENT

Redirection 3xx:

300 HTTP\_MULTIPLE\_CHOICES  
301 HTTP\_MOVED\_PERMANENTLY  
302 HTTP\_MOVED\_TEMPORARILY  
303 HTTP\_SEE\_OTHER  
304 HTTP\_NOT\_MODIFIED  
305 HTTP\_USE\_PROXY  
306  
307 HTTP\_TEMPORARY\_REDIRECT

Client Error 4xx:

- 400 HTTP\_BAD\_REQUEST
- 401 HTTP\_UNAUTHORIZED
- 402 HTTP\_PAYMENT\_REQUIRED
- 403 HTTP\_FORBIDDEN
- 404 HTTP\_NOT\_FOUND
- 405 HTTP\_METHOD\_NOT\_ALLOWED
- 406 HTTP\_NOT\_ACCEPTABLE
- 407 HTTP\_PROXY\_AUTHENTICATION\_REQUIRED
- 408 HTTP\_REQUEST\_TIMEOUT
- 409 HTTP\_CONFLICT
- 410 HTTP\_GONE
- 411 HTTP\_LENGTH\_REQUIRED
- 412 HTTP\_PRECONDITION\_FAILED
- 413 HTTP\_REQUEST\_ENTITY\_TOO\_LARGE
- 414 HTTP\_REQUEST\_URI\_TOO\_LARGE
- 415 HTTP\_UNSUPPORTED\_MEDIA\_TYPE
- 416 HTTP\_RANGE\_NOT\_SATISFIABLE
- 417 HTTP\_EXPECTATION\_FAILED

Server Error 5xx:

- 500 HTTP\_INTERNAL\_SERVER\_ERROR
- 501 HTTP\_NOT\_IMPLEMENTED
- 502 HTTP\_BAD\_GATEWAY
- 503 HTTP\_SERVICE\_UNAVAILABLE
- 504 HTTP\_GATEWAY\_TIME\_OUT
- 505 HTTP\_VERSION\_NOT\_SUPPORTED

## References

All the information related to web protocols can be found at the World Wide Web Consortium's site, <http://www.w3.org/Protocols/>.

There are many mirrors of the RFCs all around the world. One of the good starting points is <http://www.rfc-editor.org/>.