| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/HttpURLConnection.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**PREV CLASS**](http://docs.google.com/java/net/HttpRetryException.html)   [**NEXT CLASS**](http://docs.google.com/java/net/IDN.html) | [**FRAMES**](http://docs.google.com/index.html?java/net/HttpURLConnection.html)    [**NO FRAMES**](http://docs.google.com/HttpURLConnection.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#tyjcwt) | [METHOD](#3dy6vkm) | DETAIL: [FIELD](#2s8eyo1) | [CONSTR](#111kx3o) | [METHOD](#206ipza) |

## **java.net**

Class HttpURLConnection

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 [java.net.URLConnection](http://docs.google.com/java/net/URLConnection.html)  
 **java.net.HttpURLConnection**

**Direct Known Subclasses:** [HttpsURLConnection](http://docs.google.com/javax/net/ssl/HttpsURLConnection.html)

public abstract class **HttpURLConnection**extends [URLConnection](http://docs.google.com/java/net/URLConnection.html)

A URLConnection with support for HTTP-specific features. See  [the spec](http://www.w3.org/pub/WWW/Protocols/)  for details.

Each HttpURLConnection instance is used to make a single request but the underlying network connection to the HTTP server may be transparently shared by other instances. Calling the close() methods on the InputStream or OutputStream of an HttpURLConnection after a request may free network resources associated with this instance but has no effect on any shared persistent connection. Calling the disconnect() method may close the underlying socket if a persistent connection is otherwise idle at that time.

**Since:** JDK1.1 **See Also:**[disconnect()](http://docs.google.com/java/net/HttpURLConnection.html#disconnect())

| **Field Summary** | |
| --- | --- |
| protected  int | [**chunkLength**](http://docs.google.com/java/net/HttpURLConnection.html#chunkLength)            The chunk-length when using chunked encoding streaming mode for output. |
| protected  int | [**fixedContentLength**](http://docs.google.com/java/net/HttpURLConnection.html#fixedContentLength)            The fixed content-length when using fixed-length streaming mode. |
| static int | [**HTTP\_ACCEPTED**](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_ACCEPTED)            HTTP Status-Code 202: Accepted. |
| static int | [**HTTP\_BAD\_GATEWAY**](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_BAD_GATEWAY)            HTTP Status-Code 502: Bad Gateway. |
| static int | [**HTTP\_BAD\_METHOD**](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_BAD_METHOD)            HTTP Status-Code 405: Method Not Allowed. |
| static int | [**HTTP\_BAD\_REQUEST**](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_BAD_REQUEST)            HTTP Status-Code 400: Bad Request. |
| static int | [**HTTP\_CLIENT\_TIMEOUT**](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_CLIENT_TIMEOUT)            HTTP Status-Code 408: Request Time-Out. |
| static int | [**HTTP\_CONFLICT**](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_CONFLICT)            HTTP Status-Code 409: Conflict. |
| static int | [**HTTP\_CREATED**](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_CREATED)            HTTP Status-Code 201: Created. |
| static int | [**HTTP\_ENTITY\_TOO\_LARGE**](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_ENTITY_TOO_LARGE)            HTTP Status-Code 413: Request Entity Too Large. |
| static int | [**HTTP\_FORBIDDEN**](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_FORBIDDEN)            HTTP Status-Code 403: Forbidden. |
| static int | [**HTTP\_GATEWAY\_TIMEOUT**](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_GATEWAY_TIMEOUT)            HTTP Status-Code 504: Gateway Timeout. |
| static int | [**HTTP\_GONE**](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_GONE)            HTTP Status-Code 410: Gone. |
| static int | [**HTTP\_INTERNAL\_ERROR**](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_INTERNAL_ERROR)            HTTP Status-Code 500: Internal Server Error. |
| static int | [**HTTP\_LENGTH\_REQUIRED**](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_LENGTH_REQUIRED)            HTTP Status-Code 411: Length Required. |
| static int | [**HTTP\_MOVED\_PERM**](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_MOVED_PERM)            HTTP Status-Code 301: Moved Permanently. |
| static int | [**HTTP\_MOVED\_TEMP**](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_MOVED_TEMP)            HTTP Status-Code 302: Temporary Redirect. |
| static int | [**HTTP\_MULT\_CHOICE**](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_MULT_CHOICE)            HTTP Status-Code 300: Multiple Choices. |
| static int | [**HTTP\_NO\_CONTENT**](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_NO_CONTENT)            HTTP Status-Code 204: No Content. |
| static int | [**HTTP\_NOT\_ACCEPTABLE**](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_NOT_ACCEPTABLE)            HTTP Status-Code 406: Not Acceptable. |
| static int | [**HTTP\_NOT\_AUTHORITATIVE**](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_NOT_AUTHORITATIVE)            HTTP Status-Code 203: Non-Authoritative Information. |
| static int | [**HTTP\_NOT\_FOUND**](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_NOT_FOUND)            HTTP Status-Code 404: Not Found. |
| static int | [**HTTP\_NOT\_IMPLEMENTED**](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_NOT_IMPLEMENTED)            HTTP Status-Code 501: Not Implemented. |
| static int | [**HTTP\_NOT\_MODIFIED**](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_NOT_MODIFIED)            HTTP Status-Code 304: Not Modified. |
| static int | [**HTTP\_OK**](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_OK)            HTTP Status-Code 200: OK. |
| static int | [**HTTP\_PARTIAL**](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_PARTIAL)            HTTP Status-Code 206: Partial Content. |
| static int | [**HTTP\_PAYMENT\_REQUIRED**](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_PAYMENT_REQUIRED)            HTTP Status-Code 402: Payment Required. |
| static int | [**HTTP\_PRECON\_FAILED**](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_PRECON_FAILED)            HTTP Status-Code 412: Precondition Failed. |
| static int | [**HTTP\_PROXY\_AUTH**](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_PROXY_AUTH)            HTTP Status-Code 407: Proxy Authentication Required. |
| static int | [**HTTP\_REQ\_TOO\_LONG**](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_REQ_TOO_LONG)            HTTP Status-Code 414: Request-URI Too Large. |
| static int | [**HTTP\_RESET**](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_RESET)            HTTP Status-Code 205: Reset Content. |
| static int | [**HTTP\_SEE\_OTHER**](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_SEE_OTHER)            HTTP Status-Code 303: See Other. |
| static int | [**HTTP\_SERVER\_ERROR**](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_SERVER_ERROR)  **Deprecated.** *it is misplaced and shouldn't have existed.* |
| static int | [**HTTP\_UNAUTHORIZED**](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_UNAUTHORIZED)            HTTP Status-Code 401: Unauthorized. |
| static int | [**HTTP\_UNAVAILABLE**](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_UNAVAILABLE)            HTTP Status-Code 503: Service Unavailable. |
| static int | [**HTTP\_UNSUPPORTED\_TYPE**](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_UNSUPPORTED_TYPE)            HTTP Status-Code 415: Unsupported Media Type. |
| static int | [**HTTP\_USE\_PROXY**](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_USE_PROXY)            HTTP Status-Code 305: Use Proxy. |
| static int | [**HTTP\_VERSION**](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_VERSION)            HTTP Status-Code 505: HTTP Version Not Supported. |
| protected  boolean | [**instanceFollowRedirects**](http://docs.google.com/java/net/HttpURLConnection.html#instanceFollowRedirects)            If true, the protocol will automatically follow redirects. |
| protected  [String](http://docs.google.com/java/lang/String.html) | [**method**](http://docs.google.com/java/net/HttpURLConnection.html#method)            The HTTP method (GET,POST,PUT,etc.). |
| protected  int | [**responseCode**](http://docs.google.com/java/net/HttpURLConnection.html#responseCode)            An int representing the three digit HTTP Status-Code. |
| protected  [String](http://docs.google.com/java/lang/String.html) | [**responseMessage**](http://docs.google.com/java/net/HttpURLConnection.html#responseMessage)            The HTTP response message. |

| **Fields inherited from class java.net.**[**URLConnection**](http://docs.google.com/java/net/URLConnection.html) |
| --- |
| [allowUserInteraction](http://docs.google.com/java/net/URLConnection.html#allowUserInteraction), [connected](http://docs.google.com/java/net/URLConnection.html#connected), [doInput](http://docs.google.com/java/net/URLConnection.html#doInput), [doOutput](http://docs.google.com/java/net/URLConnection.html#doOutput), [ifModifiedSince](http://docs.google.com/java/net/URLConnection.html#ifModifiedSince), [url](http://docs.google.com/java/net/URLConnection.html#url), [useCaches](http://docs.google.com/java/net/URLConnection.html#useCaches) |

| **Constructor Summary** | |
| --- | --- |
| protected | [**HttpURLConnection**](http://docs.google.com/java/net/HttpURLConnection.html#HttpURLConnection(java.net.URL))([URL](http://docs.google.com/java/net/URL.html) u)            Constructor for the HttpURLConnection. |

| **Method Summary** | |
| --- | --- |
| abstract  void | [**disconnect**](http://docs.google.com/java/net/HttpURLConnection.html#disconnect())()            Indicates that other requests to the server are unlikely in the near future. |
| [InputStream](http://docs.google.com/java/io/InputStream.html) | [**getErrorStream**](http://docs.google.com/java/net/HttpURLConnection.html#getErrorStream())()            Returns the error stream if the connection failed but the server sent useful data nonetheless. |
| static boolean | [**getFollowRedirects**](http://docs.google.com/java/net/HttpURLConnection.html#getFollowRedirects())()            Returns a boolean indicating whether or not HTTP redirects (3xx) should be automatically followed. |
| [String](http://docs.google.com/java/lang/String.html) | [**getHeaderField**](http://docs.google.com/java/net/HttpURLConnection.html#getHeaderField(int))(int n)            Returns the value for the nth header field. |
| long | [**getHeaderFieldDate**](http://docs.google.com/java/net/HttpURLConnection.html#getHeaderFieldDate(java.lang.String,%20long))([String](http://docs.google.com/java/lang/String.html) name, long Default)            Returns the value of the named field parsed as date. |
| [String](http://docs.google.com/java/lang/String.html) | [**getHeaderFieldKey**](http://docs.google.com/java/net/HttpURLConnection.html#getHeaderFieldKey(int))(int n)            Returns the key for the nth header field. |
| boolean | [**getInstanceFollowRedirects**](http://docs.google.com/java/net/HttpURLConnection.html#getInstanceFollowRedirects())()            Returns the value of this HttpURLConnection's instanceFollowRedirects field. |
| [Permission](http://docs.google.com/java/security/Permission.html) | [**getPermission**](http://docs.google.com/java/net/HttpURLConnection.html#getPermission())()            Returns a permission object representing the permission necessary to make the connection represented by this object. |
| [String](http://docs.google.com/java/lang/String.html) | [**getRequestMethod**](http://docs.google.com/java/net/HttpURLConnection.html#getRequestMethod())()            Get the request method. |
| int | [**getResponseCode**](http://docs.google.com/java/net/HttpURLConnection.html#getResponseCode())()            Gets the status code from an HTTP response message. |
| [String](http://docs.google.com/java/lang/String.html) | [**getResponseMessage**](http://docs.google.com/java/net/HttpURLConnection.html#getResponseMessage())()            Gets the HTTP response message, if any, returned along with the response code from a server. |
| void | [**setChunkedStreamingMode**](http://docs.google.com/java/net/HttpURLConnection.html#setChunkedStreamingMode(int))(int chunklen)            This method is used to enable streaming of a HTTP request body without internal buffering, when the content length is **not** known in advance. |
| void | [**setFixedLengthStreamingMode**](http://docs.google.com/java/net/HttpURLConnection.html#setFixedLengthStreamingMode(int))(int contentLength)            This method is used to enable streaming of a HTTP request body without internal buffering, when the content length is known in advance. |
| static void | [**setFollowRedirects**](http://docs.google.com/java/net/HttpURLConnection.html#setFollowRedirects(boolean))(boolean set)            Sets whether HTTP redirects (requests with response code 3xx) should be automatically followed by this class. |
| void | [**setInstanceFollowRedirects**](http://docs.google.com/java/net/HttpURLConnection.html#setInstanceFollowRedirects(boolean))(boolean followRedirects)            Sets whether HTTP redirects (requests with response code 3xx) should be automatically followed by this HttpURLConnection instance. |
| void | [**setRequestMethod**](http://docs.google.com/java/net/HttpURLConnection.html#setRequestMethod(java.lang.String))([String](http://docs.google.com/java/lang/String.html) method)            Set the method for the URL request, one of: GET POST HEAD OPTIONS PUT DELETE TRACE are legal, subject to protocol restrictions. |
| abstract  boolean | [**usingProxy**](http://docs.google.com/java/net/HttpURLConnection.html#usingProxy())()            Indicates if the connection is going through a proxy. |

| **Methods inherited from class java.net.**[**URLConnection**](http://docs.google.com/java/net/URLConnection.html) |
| --- |
| [addRequestProperty](http://docs.google.com/java/net/URLConnection.html#addRequestProperty(java.lang.String,%20java.lang.String)), [connect](http://docs.google.com/java/net/URLConnection.html#connect()), [getAllowUserInteraction](http://docs.google.com/java/net/URLConnection.html#getAllowUserInteraction()), [getConnectTimeout](http://docs.google.com/java/net/URLConnection.html#getConnectTimeout()), [getContent](http://docs.google.com/java/net/URLConnection.html#getContent()), [getContent](http://docs.google.com/java/net/URLConnection.html#getContent(java.lang.Class%5B%5D)), [getContentEncoding](http://docs.google.com/java/net/URLConnection.html#getContentEncoding()), [getContentLength](http://docs.google.com/java/net/URLConnection.html#getContentLength()), [getContentType](http://docs.google.com/java/net/URLConnection.html#getContentType()), [getDate](http://docs.google.com/java/net/URLConnection.html#getDate()), [getDefaultAllowUserInteraction](http://docs.google.com/java/net/URLConnection.html#getDefaultAllowUserInteraction()), [getDefaultRequestProperty](http://docs.google.com/java/net/URLConnection.html#getDefaultRequestProperty(java.lang.String)), [getDefaultUseCaches](http://docs.google.com/java/net/URLConnection.html#getDefaultUseCaches()), [getDoInput](http://docs.google.com/java/net/URLConnection.html#getDoInput()), [getDoOutput](http://docs.google.com/java/net/URLConnection.html#getDoOutput()), [getExpiration](http://docs.google.com/java/net/URLConnection.html#getExpiration()), [getFileNameMap](http://docs.google.com/java/net/URLConnection.html#getFileNameMap()), [getHeaderField](http://docs.google.com/java/net/URLConnection.html#getHeaderField(java.lang.String)), [getHeaderFieldInt](http://docs.google.com/java/net/URLConnection.html#getHeaderFieldInt(java.lang.String,%20int)), [getHeaderFields](http://docs.google.com/java/net/URLConnection.html#getHeaderFields()), [getIfModifiedSince](http://docs.google.com/java/net/URLConnection.html#getIfModifiedSince()), [getInputStream](http://docs.google.com/java/net/URLConnection.html#getInputStream()), [getLastModified](http://docs.google.com/java/net/URLConnection.html#getLastModified()), [getOutputStream](http://docs.google.com/java/net/URLConnection.html#getOutputStream()), [getReadTimeout](http://docs.google.com/java/net/URLConnection.html#getReadTimeout()), [getRequestProperties](http://docs.google.com/java/net/URLConnection.html#getRequestProperties()), [getRequestProperty](http://docs.google.com/java/net/URLConnection.html#getRequestProperty(java.lang.String)), [getURL](http://docs.google.com/java/net/URLConnection.html#getURL()), [getUseCaches](http://docs.google.com/java/net/URLConnection.html#getUseCaches()), [guessContentTypeFromName](http://docs.google.com/java/net/URLConnection.html#guessContentTypeFromName(java.lang.String)), [guessContentTypeFromStream](http://docs.google.com/java/net/URLConnection.html#guessContentTypeFromStream(java.io.InputStream)), [setAllowUserInteraction](http://docs.google.com/java/net/URLConnection.html#setAllowUserInteraction(boolean)), [setConnectTimeout](http://docs.google.com/java/net/URLConnection.html#setConnectTimeout(int)), [setContentHandlerFactory](http://docs.google.com/java/net/URLConnection.html#setContentHandlerFactory(java.net.ContentHandlerFactory)), [setDefaultAllowUserInteraction](http://docs.google.com/java/net/URLConnection.html#setDefaultAllowUserInteraction(boolean)), [setDefaultRequestProperty](http://docs.google.com/java/net/URLConnection.html#setDefaultRequestProperty(java.lang.String,%20java.lang.String)), [setDefaultUseCaches](http://docs.google.com/java/net/URLConnection.html#setDefaultUseCaches(boolean)), [setDoInput](http://docs.google.com/java/net/URLConnection.html#setDoInput(boolean)), [setDoOutput](http://docs.google.com/java/net/URLConnection.html#setDoOutput(boolean)), [setFileNameMap](http://docs.google.com/java/net/URLConnection.html#setFileNameMap(java.net.FileNameMap)), [setIfModifiedSince](http://docs.google.com/java/net/URLConnection.html#setIfModifiedSince(long)), [setReadTimeout](http://docs.google.com/java/net/URLConnection.html#setReadTimeout(int)), [setRequestProperty](http://docs.google.com/java/net/URLConnection.html#setRequestProperty(java.lang.String,%20java.lang.String)), [setUseCaches](http://docs.google.com/java/net/URLConnection.html#setUseCaches(boolean)), [toString](http://docs.google.com/java/net/URLConnection.html#toString()) |

| **Methods inherited from class java.lang.**[**Object**](http://docs.google.com/java/lang/Object.html) |
| --- |
| [clone](http://docs.google.com/java/lang/Object.html#clone()), [equals](http://docs.google.com/java/lang/Object.html#equals(java.lang.Object)), [finalize](http://docs.google.com/java/lang/Object.html#finalize()), [getClass](http://docs.google.com/java/lang/Object.html#getClass()), [hashCode](http://docs.google.com/java/lang/Object.html#hashCode()), [notify](http://docs.google.com/java/lang/Object.html#notify()), [notifyAll](http://docs.google.com/java/lang/Object.html#notifyAll()), [wait](http://docs.google.com/java/lang/Object.html#wait()), [wait](http://docs.google.com/java/lang/Object.html#wait(long)), [wait](http://docs.google.com/java/lang/Object.html#wait(long,%20int)) |

| **Field Detail** |
| --- |

### method

protected [String](http://docs.google.com/java/lang/String.html) **method**

The HTTP method (GET,POST,PUT,etc.).

### chunkLength

protected int **chunkLength**

The chunk-length when using chunked encoding streaming mode for output. A value of -1 means chunked encoding is disabled for output.

**Since:** 1.5

### fixedContentLength

protected int **fixedContentLength**

The fixed content-length when using fixed-length streaming mode. A value of -1 means fixed-length streaming mode is disabled for output.

**Since:** 1.5

### responseCode

protected int **responseCode**

An int representing the three digit HTTP Status-Code.

* 1xx: Informational
* 2xx: Success
* 3xx: Redirection
* 4xx: Client Error
* 5xx: Server Error

### responseMessage

protected [String](http://docs.google.com/java/lang/String.html) **responseMessage**

The HTTP response message.

### instanceFollowRedirects

protected boolean **instanceFollowRedirects**

If true, the protocol will automatically follow redirects. If false, the protocol will not automatically follow redirects.

This field is set by the setInstanceFollowRedirects method. Its value is returned by the getInstanceFollowRedirects method.

Its default value is based on the value of the static followRedirects at HttpURLConnection construction time.

**See Also:**[setInstanceFollowRedirects(boolean)](http://docs.google.com/java/net/HttpURLConnection.html#setInstanceFollowRedirects(boolean)), [getInstanceFollowRedirects()](http://docs.google.com/java/net/HttpURLConnection.html#getInstanceFollowRedirects()), [setFollowRedirects(boolean)](http://docs.google.com/java/net/HttpURLConnection.html#setFollowRedirects(boolean))

### HTTP\_OK

public static final int **HTTP\_OK**

HTTP Status-Code 200: OK.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.net.HttpURLConnection.HTTP_OK)

### HTTP\_CREATED

public static final int **HTTP\_CREATED**

HTTP Status-Code 201: Created.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.net.HttpURLConnection.HTTP_CREATED)

### HTTP\_ACCEPTED

public static final int **HTTP\_ACCEPTED**

HTTP Status-Code 202: Accepted.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.net.HttpURLConnection.HTTP_ACCEPTED)

### HTTP\_NOT\_AUTHORITATIVE

public static final int **HTTP\_NOT\_AUTHORITATIVE**

HTTP Status-Code 203: Non-Authoritative Information.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.net.HttpURLConnection.HTTP_NOT_AUTHORITATIVE)

### HTTP\_NO\_CONTENT

public static final int **HTTP\_NO\_CONTENT**

HTTP Status-Code 204: No Content.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.net.HttpURLConnection.HTTP_NO_CONTENT)

### HTTP\_RESET

public static final int **HTTP\_RESET**

HTTP Status-Code 205: Reset Content.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.net.HttpURLConnection.HTTP_RESET)

### HTTP\_PARTIAL

public static final int **HTTP\_PARTIAL**

HTTP Status-Code 206: Partial Content.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.net.HttpURLConnection.HTTP_PARTIAL)

### HTTP\_MULT\_CHOICE

public static final int **HTTP\_MULT\_CHOICE**

HTTP Status-Code 300: Multiple Choices.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.net.HttpURLConnection.HTTP_MULT_CHOICE)

### HTTP\_MOVED\_PERM

public static final int **HTTP\_MOVED\_PERM**

HTTP Status-Code 301: Moved Permanently.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.net.HttpURLConnection.HTTP_MOVED_PERM)

### HTTP\_MOVED\_TEMP

public static final int **HTTP\_MOVED\_TEMP**

HTTP Status-Code 302: Temporary Redirect.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.net.HttpURLConnection.HTTP_MOVED_TEMP)

### HTTP\_SEE\_OTHER

public static final int **HTTP\_SEE\_OTHER**

HTTP Status-Code 303: See Other.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.net.HttpURLConnection.HTTP_SEE_OTHER)

### HTTP\_NOT\_MODIFIED

public static final int **HTTP\_NOT\_MODIFIED**

HTTP Status-Code 304: Not Modified.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.net.HttpURLConnection.HTTP_NOT_MODIFIED)

### HTTP\_USE\_PROXY

public static final int **HTTP\_USE\_PROXY**

HTTP Status-Code 305: Use Proxy.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.net.HttpURLConnection.HTTP_USE_PROXY)

### HTTP\_BAD\_REQUEST

public static final int **HTTP\_BAD\_REQUEST**

HTTP Status-Code 400: Bad Request.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.net.HttpURLConnection.HTTP_BAD_REQUEST)

### HTTP\_UNAUTHORIZED

public static final int **HTTP\_UNAUTHORIZED**

HTTP Status-Code 401: Unauthorized.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.net.HttpURLConnection.HTTP_UNAUTHORIZED)

### HTTP\_PAYMENT\_REQUIRED

public static final int **HTTP\_PAYMENT\_REQUIRED**

HTTP Status-Code 402: Payment Required.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.net.HttpURLConnection.HTTP_PAYMENT_REQUIRED)

### HTTP\_FORBIDDEN

public static final int **HTTP\_FORBIDDEN**

HTTP Status-Code 403: Forbidden.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.net.HttpURLConnection.HTTP_FORBIDDEN)

### HTTP\_NOT\_FOUND

public static final int **HTTP\_NOT\_FOUND**

HTTP Status-Code 404: Not Found.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.net.HttpURLConnection.HTTP_NOT_FOUND)

### HTTP\_BAD\_METHOD

public static final int **HTTP\_BAD\_METHOD**

HTTP Status-Code 405: Method Not Allowed.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.net.HttpURLConnection.HTTP_BAD_METHOD)

### HTTP\_NOT\_ACCEPTABLE

public static final int **HTTP\_NOT\_ACCEPTABLE**

HTTP Status-Code 406: Not Acceptable.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.net.HttpURLConnection.HTTP_NOT_ACCEPTABLE)

### HTTP\_PROXY\_AUTH

public static final int **HTTP\_PROXY\_AUTH**

HTTP Status-Code 407: Proxy Authentication Required.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.net.HttpURLConnection.HTTP_PROXY_AUTH)

### HTTP\_CLIENT\_TIMEOUT

public static final int **HTTP\_CLIENT\_TIMEOUT**

HTTP Status-Code 408: Request Time-Out.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.net.HttpURLConnection.HTTP_CLIENT_TIMEOUT)

### HTTP\_CONFLICT

public static final int **HTTP\_CONFLICT**

HTTP Status-Code 409: Conflict.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.net.HttpURLConnection.HTTP_CONFLICT)

### HTTP\_GONE

public static final int **HTTP\_GONE**

HTTP Status-Code 410: Gone.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.net.HttpURLConnection.HTTP_GONE)

### HTTP\_LENGTH\_REQUIRED

public static final int **HTTP\_LENGTH\_REQUIRED**

HTTP Status-Code 411: Length Required.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.net.HttpURLConnection.HTTP_LENGTH_REQUIRED)

### HTTP\_PRECON\_FAILED

public static final int **HTTP\_PRECON\_FAILED**

HTTP Status-Code 412: Precondition Failed.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.net.HttpURLConnection.HTTP_PRECON_FAILED)

### HTTP\_ENTITY\_TOO\_LARGE

public static final int **HTTP\_ENTITY\_TOO\_LARGE**

HTTP Status-Code 413: Request Entity Too Large.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.net.HttpURLConnection.HTTP_ENTITY_TOO_LARGE)

### HTTP\_REQ\_TOO\_LONG

public static final int **HTTP\_REQ\_TOO\_LONG**

HTTP Status-Code 414: Request-URI Too Large.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.net.HttpURLConnection.HTTP_REQ_TOO_LONG)

### HTTP\_UNSUPPORTED\_TYPE

public static final int **HTTP\_UNSUPPORTED\_TYPE**

HTTP Status-Code 415: Unsupported Media Type.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.net.HttpURLConnection.HTTP_UNSUPPORTED_TYPE)

### HTTP\_SERVER\_ERROR

[@Deprecated](http://docs.google.com/java/lang/Deprecated.html)  
public static final int **HTTP\_SERVER\_ERROR**

**Deprecated.** *it is misplaced and shouldn't have existed.*HTTP Status-Code 500: Internal Server Error.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.net.HttpURLConnection.HTTP_SERVER_ERROR)

### HTTP\_INTERNAL\_ERROR

public static final int **HTTP\_INTERNAL\_ERROR**

HTTP Status-Code 500: Internal Server Error.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.net.HttpURLConnection.HTTP_INTERNAL_ERROR)

### HTTP\_NOT\_IMPLEMENTED

public static final int **HTTP\_NOT\_IMPLEMENTED**

HTTP Status-Code 501: Not Implemented.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.net.HttpURLConnection.HTTP_NOT_IMPLEMENTED)

### HTTP\_BAD\_GATEWAY

public static final int **HTTP\_BAD\_GATEWAY**

HTTP Status-Code 502: Bad Gateway.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.net.HttpURLConnection.HTTP_BAD_GATEWAY)

### HTTP\_UNAVAILABLE

public static final int **HTTP\_UNAVAILABLE**

HTTP Status-Code 503: Service Unavailable.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.net.HttpURLConnection.HTTP_UNAVAILABLE)

### HTTP\_GATEWAY\_TIMEOUT

public static final int **HTTP\_GATEWAY\_TIMEOUT**

HTTP Status-Code 504: Gateway Timeout.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.net.HttpURLConnection.HTTP_GATEWAY_TIMEOUT)

### HTTP\_VERSION

public static final int **HTTP\_VERSION**

HTTP Status-Code 505: HTTP Version Not Supported.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.net.HttpURLConnection.HTTP_VERSION)

| **Constructor Detail** |
| --- |

### HttpURLConnection

protected **HttpURLConnection**([URL](http://docs.google.com/java/net/URL.html) u)

Constructor for the HttpURLConnection.

**Parameters:**u - the URL

| **Method Detail** |
| --- |

### getHeaderFieldKey

public [String](http://docs.google.com/java/lang/String.html) **getHeaderFieldKey**(int n)

Returns the key for the nth header field. Some implementations may treat the 0th header field as special, i.e. as the status line returned by the HTTP server. In this case, [getHeaderField(0)](http://docs.google.com/java/net/HttpURLConnection.html#getHeaderField(int)) returns the status line, but getHeaderFieldKey(0) returns null.

**Overrides:**[getHeaderFieldKey](http://docs.google.com/java/net/URLConnection.html#getHeaderFieldKey(int)) in class [URLConnection](http://docs.google.com/java/net/URLConnection.html) **Parameters:**n - an index, where n >=0. **Returns:**the key for the nth header field, or null if the key does not exist.

### setFixedLengthStreamingMode

public void **setFixedLengthStreamingMode**(int contentLength)

This method is used to enable streaming of a HTTP request body without internal buffering, when the content length is known in advance.

An exception will be thrown if the application attempts to write more data than the indicated content-length, or if the application closes the OutputStream before writing the indicated amount.

When output streaming is enabled, authentication and redirection cannot be handled automatically. A HttpRetryException will be thrown when reading the response if authentication or redirection are required. This exception can be queried for the details of the error.

This method must be called before the URLConnection is connected.

**Parameters:**contentLength - The number of bytes which will be written to the OutputStream. **Throws:** [IllegalStateException](http://docs.google.com/java/lang/IllegalStateException.html) - if URLConnection is already connected or if a different streaming mode is already enabled. [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if a content length less than zero is specified.**Since:** 1.5 **See Also:**[setChunkedStreamingMode(int)](http://docs.google.com/java/net/HttpURLConnection.html#setChunkedStreamingMode(int))

### setChunkedStreamingMode

public void **setChunkedStreamingMode**(int chunklen)

This method is used to enable streaming of a HTTP request body without internal buffering, when the content length is **not** known in advance. In this mode, chunked transfer encoding is used to send the request body. Note, not all HTTP servers support this mode.

When output streaming is enabled, authentication and redirection cannot be handled automatically. A HttpRetryException will be thrown when reading the response if authentication or redirection are required. This exception can be queried for the details of the error.

This method must be called before the URLConnection is connected.

**Parameters:**chunklen - The number of bytes to write in each chunk. If chunklen is less than or equal to zero, a default value will be used. **Throws:** [IllegalStateException](http://docs.google.com/java/lang/IllegalStateException.html) - if URLConnection is already connected or if a different streaming mode is already enabled.**Since:** 1.5 **See Also:**[setFixedLengthStreamingMode(int)](http://docs.google.com/java/net/HttpURLConnection.html#setFixedLengthStreamingMode(int))

### getHeaderField

public [String](http://docs.google.com/java/lang/String.html) **getHeaderField**(int n)

Returns the value for the nth header field. Some implementations may treat the 0th header field as special, i.e. as the status line returned by the HTTP server.

This method can be used in conjunction with the [getHeaderFieldKey](http://docs.google.com/java/net/HttpURLConnection.html#getHeaderFieldKey(int)) method to iterate through all the headers in the message.

**Overrides:**[getHeaderField](http://docs.google.com/java/net/URLConnection.html#getHeaderField(int)) in class [URLConnection](http://docs.google.com/java/net/URLConnection.html) **Parameters:**n - an index, where n>=0. **Returns:**the value of the nth header field, or null if the value does not exist.**See Also:**[getHeaderFieldKey(int)](http://docs.google.com/java/net/HttpURLConnection.html#getHeaderFieldKey(int))

### setFollowRedirects

public static void **setFollowRedirects**(boolean set)

Sets whether HTTP redirects (requests with response code 3xx) should be automatically followed by this class. True by default. Applets cannot change this variable.

If there is a security manager, this method first calls the security manager's checkSetFactory method to ensure the operation is allowed. This could result in a SecurityException.

**Parameters:**set - a boolean indicating whether or not to follow HTTP redirects. **Throws:** [SecurityException](http://docs.google.com/java/lang/SecurityException.html) - if a security manager exists and its checkSetFactory method doesn't allow the operation.**See Also:**[SecurityManager.checkSetFactory()](http://docs.google.com/java/lang/SecurityManager.html#checkSetFactory()), [getFollowRedirects()](http://docs.google.com/java/net/HttpURLConnection.html#getFollowRedirects())

### getFollowRedirects

public static boolean **getFollowRedirects**()

Returns a boolean indicating whether or not HTTP redirects (3xx) should be automatically followed.

**Returns:**true if HTTP redirects should be automatically followed, false if not.**See Also:**[setFollowRedirects(boolean)](http://docs.google.com/java/net/HttpURLConnection.html#setFollowRedirects(boolean))

### setInstanceFollowRedirects

public void **setInstanceFollowRedirects**(boolean followRedirects)

Sets whether HTTP redirects (requests with response code 3xx) should be automatically followed by this HttpURLConnection instance.

The default value comes from followRedirects, which defaults to true.

**Parameters:**followRedirects - a boolean indicating whether or not to follow HTTP redirects.**Since:** 1.3 **See Also:**[instanceFollowRedirects](http://docs.google.com/java/net/HttpURLConnection.html#instanceFollowRedirects), [getInstanceFollowRedirects()](http://docs.google.com/java/net/HttpURLConnection.html#getInstanceFollowRedirects())

### getInstanceFollowRedirects

public boolean **getInstanceFollowRedirects**()

Returns the value of this HttpURLConnection's instanceFollowRedirects field.

**Returns:**the value of this HttpURLConnection's instanceFollowRedirects field.**Since:** 1.3 **See Also:**[instanceFollowRedirects](http://docs.google.com/java/net/HttpURLConnection.html#instanceFollowRedirects), [setInstanceFollowRedirects(boolean)](http://docs.google.com/java/net/HttpURLConnection.html#setInstanceFollowRedirects(boolean))

### setRequestMethod

public void **setRequestMethod**([String](http://docs.google.com/java/lang/String.html) method)  
 throws [ProtocolException](http://docs.google.com/java/net/ProtocolException.html)

Set the method for the URL request, one of:

* GET
* POST
* HEAD
* OPTIONS
* PUT
* DELETE
* TRACE

are legal, subject to protocol restrictions. The default method is GET.

**Parameters:**method - the HTTP method **Throws:** [ProtocolException](http://docs.google.com/java/net/ProtocolException.html) - if the method cannot be reset or if the requested method isn't valid for HTTP.**See Also:**[getRequestMethod()](http://docs.google.com/java/net/HttpURLConnection.html#getRequestMethod())

### getRequestMethod

public [String](http://docs.google.com/java/lang/String.html) **getRequestMethod**()

Get the request method.

**Returns:**the HTTP request method**See Also:**[setRequestMethod(java.lang.String)](http://docs.google.com/java/net/HttpURLConnection.html#setRequestMethod(java.lang.String))

### getResponseCode

public int **getResponseCode**()  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

Gets the status code from an HTTP response message. For example, in the case of the following status lines:

HTTP/1.0 200 OK  
 HTTP/1.0 401 Unauthorized

It will return 200 and 401 respectively. Returns -1 if no code can be discerned from the response (i.e., the response is not valid HTTP).

**Returns:**the HTTP Status-Code, or -1 **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - if an error occurred connecting to the server.

### getResponseMessage

public [String](http://docs.google.com/java/lang/String.html) **getResponseMessage**()  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

Gets the HTTP response message, if any, returned along with the response code from a server. From responses like:

HTTP/1.0 200 OK  
 HTTP/1.0 404 Not Found

Extracts the Strings "OK" and "Not Found" respectively. Returns null if none could be discerned from the responses (the result was not valid HTTP).

**Returns:**the HTTP response message, or null **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - if an error occurred connecting to the server.

### getHeaderFieldDate

public long **getHeaderFieldDate**([String](http://docs.google.com/java/lang/String.html) name,  
 long Default)

**Description copied from class:** [**URLConnection**](http://docs.google.com/java/net/URLConnection.html#getHeaderFieldDate(java.lang.String,%20long)) Returns the value of the named field parsed as date. The result is the number of milliseconds since January 1, 1970 GMT represented by the named field.

This form of getHeaderField exists because some connection types (e.g., http-ng) have pre-parsed headers. Classes for that connection type can override this method and short-circuit the parsing.

**Overrides:**[getHeaderFieldDate](http://docs.google.com/java/net/URLConnection.html#getHeaderFieldDate(java.lang.String,%20long)) in class [URLConnection](http://docs.google.com/java/net/URLConnection.html) **Parameters:**name - the name of the header field.Default - a default value. **Returns:**the value of the field, parsed as a date. The value of the Default argument is returned if the field is missing or malformed.

### disconnect

public abstract void **disconnect**()

Indicates that other requests to the server are unlikely in the near future. Calling disconnect() should not imply that this HttpURLConnection instance can be reused for other requests.

### usingProxy

public abstract boolean **usingProxy**()

Indicates if the connection is going through a proxy.

**Returns:**a boolean indicating if the connection is using a proxy.

### getPermission

public [Permission](http://docs.google.com/java/security/Permission.html) **getPermission**()  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

**Description copied from class:** [**URLConnection**](http://docs.google.com/java/net/URLConnection.html#getPermission()) Returns a permission object representing the permission necessary to make the connection represented by this object. This method returns null if no permission is required to make the connection. By default, this method returns java.security.AllPermission. Subclasses should override this method and return the permission that best represents the permission required to make a a connection to the URL. For example, a URLConnection representing a file: URL would return a java.io.FilePermission object.

The permission returned may dependent upon the state of the connection. For example, the permission before connecting may be different from that after connecting. For example, an HTTP sever, say foo.com, may redirect the connection to a different host, say bar.com. Before connecting the permission returned by the connection will represent the permission needed to connect to foo.com, while the permission returned after connecting will be to bar.com.

Permissions are generally used for two purposes: to protect caches of objects obtained through URLConnections, and to check the right of a recipient to learn about a particular URL. In the first case, the permission should be obtained *after* the object has been obtained. For example, in an HTTP connection, this will represent the permission to connect to the host from which the data was ultimately fetched. In the second case, the permission should be obtained and tested *before* connecting.

**Overrides:**[getPermission](http://docs.google.com/java/net/URLConnection.html#getPermission()) in class [URLConnection](http://docs.google.com/java/net/URLConnection.html) **Returns:**the permission object representing the permission necessary to make the connection represented by this URLConnection. **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - if the computation of the permission requires network or file I/O and an exception occurs while computing it.

### getErrorStream

public [InputStream](http://docs.google.com/java/io/InputStream.html) **getErrorStream**()

Returns the error stream if the connection failed but the server sent useful data nonetheless. The typical example is when an HTTP server responds with a 404, which will cause a FileNotFoundException to be thrown in connect, but the server sent an HTML help page with suggestions as to what to do.

This method will not cause a connection to be initiated. If the connection was not connected, or if the server did not have an error while connecting or if the server had an error but no error data was sent, this method will return null. This is the default.

**Returns:**an error stream if any, null if there have been no errors, the connection is not connected or the server sent no useful data.

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/HttpURLConnection.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**PREV CLASS**](http://docs.google.com/java/net/HttpRetryException.html)   [**NEXT CLASS**](http://docs.google.com/java/net/IDN.html) | [**FRAMES**](http://docs.google.com/index.html?java/net/HttpURLConnection.html)    [**NO FRAMES**](http://docs.google.com/HttpURLConnection.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#tyjcwt) | [METHOD](#3dy6vkm) | DETAIL: [FIELD](#2s8eyo1) | [CONSTR](#111kx3o) | [METHOD](#206ipza) |

[Submit a bug or feature](http://bugs.sun.com/services/bugreport/index.jsp)

For further API reference and developer documentation, see [Java SE Developer Documentation](http://docs.google.com/webnotes/devdocs-vs-specs.html). That documentation contains more detailed, developer-targeted descriptions, with conceptual overviews, definitions of terms, workarounds, and working code examples.

Copyright 2006 Sun Microsystems, Inc. All rights reserved. Use is subject to [license terms](http://docs.google.com/legal/license.html). Also see the [documentation redistribution policy](http://java.sun.com/docs/redist.html).