added in API level 1

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

public abstract class HttpURLConnection
extends URLConnection (https://developer.android.com/reference/java/net/URLConnection.html)

<u>java.lang.Object</u> (https://developer.android.com/reference/java/lang/Object.html)

 java.net.URLConnection (https://developer.android.com/reference/java/net/URLConnection.html)

 java.net.HttpURLConnection

Known direct subclasses

HttpsURLConnection (https://developer.android.com/reference/javax/net/ssl/HttpsURLConnection.h

<u>HttpsURLConnection</u>	HttpsURLCon
(https://developer.android.com/reference/javax/net/ssl/HttpsURLConnection.html)	extends
	HttpURLConn
	with support fc
	specific feature

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

Uses of this class follow a pattern:

- Obtain a new HttpURLConnection by calling <u>URL.openConnection()</u>
 (https://developer.android.com/reference/java/net/URL.html#openConnection()) and casting the result to HttpURLConnection.
- 2. Prepare the request. The primary property of a request is its URI. Request headers may also include metadata such as credentials, preferred content types, and session cookies.
- 3. Optionally upload a request body. Instances must be configured with setDoOutput(true)

(https://developer.android.com/reference/java/net/URLConnection.html#setDoOutput(boolean)) if they include a request body. Transmit data by writing to the stream returned by <u>URLConnection.getOutputStream()</u>

(https://developer.android.com/reference/java/net/URLConnection.html#getOutputStream()).

4. Read the response. Response headers typically include metadata such as the response body's content type and length, modified dates and session cookies. The response body may be read from the stream returned by <u>URLConnection.getInputStream()</u> (https://developer.android.com/reference/java/net/URLConnection.html#getInputStream()). If the response has no body, that method returns an empty stream.

5. Disconnect. Once the response body has been read, the HttpURLConnection should be closed by calling <u>disconnect()</u>

(https://developer.android.com/reference/java/net/HttpURLConnection.html#disconnect()). Disconnecting releases the resources held by a connection so they may be closed or reused.

For example, to retrieve the webpage at http://www.android.com/:

```
URL url = new URL("http://www.android.com/");
HttpURLConnection urlConnection = (HttpURLConnection) url.openConnection()
try {
   InputStream in = new BufferedInputStream(urlConnection.getInputStream())
   readStream(in);
} finally {
   urlConnection.disconnect();
}
```

Secure Communication with HTTPS

Calling <u>URL.openConnection()</u>

(https://developer.android.com/reference/java/net/URL.html#openConnection()) on a URL with the "https" scheme will return an HttpsURLConnection, which allows for overriding the default HostnameVerifier (https://developer.android.com/reference/javax/net/ssl/HostnameVerifier.html) and SSLSocketFactory

(https://developer.android.com/reference/javax/net/ssl/SSLSocketFactory.html). An application-supplied SSLSocketFactory created from an <u>SSLContext</u>

(https://developer.android.com/reference/javax/net/ssl/SSLContext.html) can provide a custom X509TrustManager (https://developer.android.com/reference/javax/net/ssl/X509TrustManager.html) for verifying certificate chains and a custom X509KeyManager

(https://developer.android.com/reference/javax/net/ssl/X509KeyManager.html) for supplying client certificates. See https://example.com/reference/javax/net/ssl/X509KeyManager.html) for supplying client certificates. The supplying client certificates are supplying client certificates and complex certificates are supplying client certificates and certificates are supplying client certificates and certificates are supplying client certificates are supplying certificates are suppl

(https://developer.android.com/reference/javax/net/ssl/HttpsURLConnection.html) for more details.

Response Handling

HttpURLConnection will follow up to five HTTP redirects. It will follow redirects from one origin server to another. This implementation doesn't follow redirects from HTTPS to HTTP

or vice versa.

If the HTTP response indicates that an error occurred, URLConnection.getInputStream() (https://developer.android.com/reference/java/net/URLConnection.html#getInputStream()) will throw an IOException (https://developer.android.com/reference/java/io/IOException.html). Use getErrorStream()

(https://developer.android.com/reference/java/net/HttpURLConnection.html#getErrorStream()) to read the error response. The headers can be read in the normal way using URLConnection.getHeaderFields()

(https://developer.android.com/reference/java/net/URLConnection.html#getHeaderFields()),

Posting Content

To upload data to a web server, configure the connection for output using setDoOutput(true)

(https://developer.android.com/reference/java/net/URLConnection.html#setDoOutput(boolean)).

For best performance, you should call either setFixedLengthStreamingMode(int) (https://developer.android.com/reference/java/net/HttpURLConnection.html#setFixedLengthStreaming Mode(int))

when the body length is known in advance, or setChunkedStreamingMode(int). (https://developer.android.com/reference/java/net/HttpURLConnection.html#setChunkedStreamingMode(int))

when it is not. Otherwise HttpURLConnection will be forced to buffer the complete request body in memory before it is transmitted, wasting (and possibly exhausting) heap and increasing latency.

For example, to perform an upload:

```
HttpURLConnection urlConnection = (HttpURLConnection) url.openConnection
try {
  urlConnection.setDoOutput(true);
  urlConnection.setChunkedStreamingMode(0);

OutputStream out = new BufferedOutputStream(urlConnection.getOutputStream writeStream(out);

InputStream in = new BufferedInputStream(urlConnection.getInputStream())
  readStream(in);
} finally {
  urlConnection.disconnect();
}
```

Performance

The input and output streams returned by this class are **not buffered**. Most callers should wrap the returned streams with <u>BufferedInputStream</u>

(https://developer.android.com/reference/java/io/BufferedInputStream.html) or

<u>BufferedOutputStream</u>

(https://developer.android.com/reference/java/io/BufferedOutputStream.html). Callers that do only bulk reads or writes may omit buffering.

When transferring large amounts of data to or from a server, use streams to limit how much data is in memory at once. Unless you need the entire body to be in memory at once, process it as a stream (rather than storing the complete body as a single byte array or string).

To reduce latency, this class may reuse the same underlying Socket for multiple request/response pairs. As a result, HTTP connections may be held open longer than necessary. Calls to <u>disconnect()</u>

(https://developer.android.com/reference/java/net/HttpURLConnection.html#disconnect()) may return the socket to a pool of connected sockets.

By default, this implementation of HttpURLConnection requests that servers use gzip compression and it automatically decompresses the data for callers of <u>URLConnection.getInputStream()</u>.

(https://developer.android.com/reference/java/net/URLConnection.html#getInputStream()). The Content-Encoding and Content-Length response headers are cleared in this case. Gzip compression can be disabled by setting the acceptable encodings in the request header:

urlConnection.setRequestProperty("Accept-Encoding", "identity");

Setting the Accept-Encoding request header explicitly disables automatic decompression and leaves the response headers intact; callers must handle decompression as needed, according to the Content-Encoding header of the response.

URLConnection.getContentLength()

(https://developer.android.com/reference/java/net/URLConnection.html#getContentLength()) returns the number of bytes transmitted and cannot be used to predict how many bytes can be read from URLConnection.getInputStream()

(https://developer.android.com/reference/java/net/URLConnection.html#getInputStream()) for compressed streams. Instead, read that stream until it is exhausted, i.e. when InputStream.read() (https://developer.android.com/reference/java/io/InputStream.html#read()) returns -1.

Handling Network Sign-On

Some Wi-Fi networks block Internet access until the user clicks through a sign-on page. Such sign-on pages are typically presented by using HTTP redirects. You can use URLConnection.getURL()

(https://developer.android.com/reference/java/net/URLConnection.html#getURL()) to test if your connection has been unexpectedly redirected. This check is not valid until **after** the response headers have been received, which you can trigger by calling URLConnection.getHeaderFields()

(https://developer.android.com/reference/java/net/URLConnection.html#getHeaderFields()) or URLConnection.getInputStream()

(https://developer.android.com/reference/java/net/URLConnection.html#getInputStream()). For example, to check that a response was not redirected to an unexpected host:

```
HttpURLConnection urlConnection = (HttpURLConnection) url.openConnection
try {
    InputStream in = new BufferedInputStream(urlConnection.getInputStream())
    if (!url.getHost().equals(urlConnection.getURL().getHost())) {
        // we were redirected! Kick the user out to the browser to sign on?
    }
    ...
} finally {
    urlConnection.disconnect();
}
```

HTTP Authentication

HttpURLConnection supports <u>HTTP basic authentication</u> (http://www.ietf.org/rfc/rfc2617). Use <u>Authenticator</u> (https://developer.android.com/reference/java/net/Authenticator.html) to set the VM-wide authentication handler:

```
Authenticator.setDefault(new Authenticator() {
  protected PasswordAuthentication getPasswordAuthentication() {
    return new PasswordAuthentication(username, password.toCharArray());
  }
});
```

Unless paired with HTTPS, this is **not** a secure mechanism for user authentication. In particular, the username, password, request and response are all transmitted over the network without encryption.

Sessions with Cookies

To establish and maintain a potentially long-lived session between client and server, HttpURLConnection includes an extensible cookie manager. Enable VM-wide cookie management using <u>CookieHandler</u>

(https://developer.android.com/reference/java/net/CookieHandler.html) and <u>CookieManager</u> (https://developer.android.com/reference/java/net/CookieManager.html):

```
CookieManager cookieManager = new CookieManager();
CookieHandler.setDefault(cookieManager);
```

By default, CookieManager accepts cookies from the origin server

 $(http://www.w3.org/Protocols/rfc2616/rfc2616-sec1.html)\ only.\ Two\ other\ policies\ are\ included:$

CookiePolicy.ACCEPT_ALL

(https://developer.android.com/reference/java/net/CookiePolicy.html#ACCEPT_ALL) and CookiePolicy.ACCEPT_NONE

(https://developer.android.com/reference/java/net/CookiePolicy.html#ACCEPT_NONE). Implement <u>CookiePolicy</u> (https://developer.android.com/reference/java/net/CookiePolicy.html) to define a custom policy.

The default CookieManager keeps all accepted cookies in memory. It will forget these cookies when the VM exits. Implement <u>CookieStore</u>

(https://developer.android.com/reference/java/net/CookieStore.html) to define a custom cookie store.

In addition to the cookies set by HTTP responses, you may set cookies programmatically. To be included in HTTP request headers, cookies must have the domain and path properties set.

By default, new instances of HttpCookie work only with servers that support RFC 2965 (http://www.ietf.org/rfc/rfc2965.txt) cookies. Many web servers support only the older specification, RFC 2109 (http://www.ietf.org/rfc/rfc2109.txt). For compatibility with the most web servers, set the cookie version to 0.

For example, to receive www.twitter.com in French:

```
HttpCookie cookie = new HttpCookie("lang", "fr");
cookie.setDomain("twitter.com");
cookie.setPath("/");
cookie.setVersion(0);
cookieManager.getCookieStore().add(new URI("http://twitter.com/"), cookie)
```

HTTP Methods

HttpURLConnection uses the GET method by default. It will use POST if setDoOutput(true)

(https://developer.android.com/reference/java/net/URLConnection.html#setDoOutput(boolean)) has been called. Other HTTP methods (OPTIONS, HEAD, PUT, DELETE and TRACE) can be used with setRequestMethod(String))

(https://developer.android.com/reference/java/net/HttpURLConnection.html#setRequestMethod(java.lang.String))

.

Proxies

By default, this class will connect directly to the origin server

(http://www.w3.org/Protocols/rfc2616/rfc2616-sec1.html). It can also connect via an https://developer.android.com/reference/java/net/Proxy.Type.html#HTTP) or SOCKS
(https://developer.android.com/reference/java/net/Proxy.Type.html#SOCKS) proxy. To use a proxy, use URL.openConnection(Proxy)

(https://developer.android.com/reference/java/net/URL.html#openConnection(java.net.Proxy)) when creating the connection.

IPv6 Support

This class includes transparent support for IPv6. For hosts with both IPv4 and IPv6 addresses, it will attempt to connect to each of a host's addresses until a connection is established.

Response Caching

Android 4.0 (Ice Cream Sandwich, API level 15) includes a response cache. See android.net.http.HttpResponseCache for instructions on enabling HTTP caching in your application.

Avoiding Bugs In Earlier Releases

Prior to Android 2.2 (Froyo), this class had some frustrating bugs. In particular, calling close() on a readable InputStream could poison the connection pool

(http://code.google.com/p/android/issues/detail?id=2939). Work around this by disabling connection pooling:

```
private void disableConnectionReuseIfNecessary() {
   // Work around pre-Froyo bugs in HTTP connection reuse.
   if (Integer.parseInt(Build.VERSION.SDK) < Build.VERSION_CODES.FROYO) {
     System.setProperty("http.keepAlive", "false");
   }
}</pre>
```

Each instance of HttpURLConnection may be used for one request/response pair. Instances of this class are not thread safe.

See also:

disconnect()

(https://developer.android.com/reference/java/net/HttpURLConnection.html#disconnect())

Summary

Constants

HTTP_ACCEPTED (https://developer.android.com/reference/java/net/HttpURLConnection.html#HTTP_ACCEPTED)
HTTP Status-Code 202: Accepted.
HTTP_BAD_GATEWAY (https://developer.android.com/reference/java/net/HttpURLConnection.html#HTTP_BAD_GATEWAY) HTTP Status-Code 502: Bad Gateway.
HTTF Status-Code 302. Bad Gateway.
<pre>HTTP_BAD_METHOD (https://developer.android.com/reference/java/net/HttpURLConnection.html#HTTP_BAD_METHOD)</pre>
HTTP Status-Code 405: Method Not Allowed.
<pre>HTTP_BAD_REQUEST (https://developer.android.com/reference/java/net/HttpURLConnection.html#HTTP_BAD_REQUEST)</pre>
HTTP Status-Code 400: Bad Request.

int	HTTP_CLIENT_TIMEOUT (https://developer.android.com/reference/java/net/HttpURLConnection.html#HTTP_CLIENT_TIMEOUT)
	HTTP Status-Code 408: Request Time-Out.
int	HTTP_CONFLICT (https://developer.android.com/reference/java/net/HttpURLConnection.html#HTTP_CONFLICT)
	HTTP Status-Code 409: Conflict.
int	<pre>HTTP_CREATED (https://developer.android.com/reference/java/net/HttpURLConnection.html#HTTP_CREATED)</pre>
	HTTP Status-Code 201: Created.
int	HTTP_ENTITY_TOO_LARGE (https://developer.android.com/reference/java/net/HttpURLConnection.html#HTTP_ENTITY_TOO_LARGE)
	HTTP Status-Code 413: Request Entity Too Large.
int	HTTP_FORBIDDEN (https://developer.android.com/reference/java/net/HttpURLConnection.html#HTTP_FORBIDDEN)
	HTTP Status-Code 403: Forbidden.
int	HTTP_GATEWAY_TIMEOUT (https://developer.android.com/reference/java/net/HttpURLConnection.html#HTTP_GATEWAY_TIMEOUT)
	HTTP Status-Code 504: Gateway Timeout.
int	<pre>HTTP_GONE (https://developer.android.com/reference/java/net/HttpURLConnection.html#HTTP_GONE)</pre>
	HTTP Status-Code 410: Gone.
int	HTTP_INTERNAL_ERROR (https://developer.android.com/reference/java/net/HttpURLConnection.html#HTTP_INTERNAL_ERROR)
	HTTP Status-Code 500: Internal Server Error.
int	HTTP_LENGTH_REQUIRED (https://developer.android.com/reference/java/net/HttpURLConnection.html#HTTP_LENGTH_REQUIRED)

HTTP Status-Code 411: Length Required.

int	HTTP_MOVED_PERM (https://developer.android.com/reference/java/net/HttpURLConnection.html#HTTP_MOVED_PERM)
	HTTP Status-Code 301: Moved Permanently.
int	HTTP_MOVED_TEMP (https://developer.android.com/reference/java/net/HttpURLConnection.html#HTTP_MOVED_TEMP)
	HTTP Status-Code 302: Temporary Redirect.
int	HTTP_MULT_CHOICE (https://developer.android.com/reference/java/net/HttpURLConnection.html#HTTP_MULT_CHOICE)
	HTTP Status-Code 300: Multiple Choices.
int	HTTP_NOT_ACCEPTABLE (https://developer.android.com/reference/java/net/HttpURLConnection.html#HTTP_NOT_ACCEPTABLE)
	HTTP Status-Code 406: Not Acceptable.
int	HTTP_NOT_AUTHORITATIVE (https://developer.android.com/reference/java/net/HttpURLConnection.html#HTTP_NOT_AUTHORITATIVE)
	HTTP Status-Code 203: Non-Authoritative Information.
int	HTTP_NOT_FOUND (https://developer.android.com/reference/java/net/HttpURLConnection.html#HTTP_NOT_FOUND)
	HTTP Status-Code 404: Not Found.
int	HTTP_NOT_IMPLEMENTED (https://developer.android.com/reference/java/net/HttpURLConnection.html#HTTP_NOT_IMPLEMENTED)
	HTTP Status-Code 501: Not Implemented.
int	HTTP_NOT_MODIFIED (https://developer.android.com/reference/java/net/HttpURLConnection.html#HTTP_NOT_MODIFIED)
	HTTP Status-Code 304: Not Modified.
int	HTTP_NO_CONTENT

	HTTP Status-Code 204: No Content.
int	<pre>HTTP_0K (https://developer.android.com/reference/java/net/HttpURLConnection.html#HTTP_0K)</pre>
	HTTP Status-Code 200: OK.
int	<pre>HTTP_PARTIAL (https://developer.android.com/reference/java/net/HttpURLConnection.html#HTTP_PARTIAL)</pre>
	HTTP Status-Code 206: Partial Content.
int	HTTP_PAYMENT_REQUIRED (https://developer.android.com/reference/java/net/HttpURLConnection.html#HTTP_PAYMENT_REQUIRED)
	HTTP Status-Code 402: Payment Required.
int	HTTP_PRECON_FAILED (https://developer.android.com/reference/java/net/HttpURLConnection.html#HTTP_PRECON_FAILED)
	HTTP Status-Code 412: Precondition Failed.
int	HTTP_PROXY_AUTH (https://developer.android.com/reference/java/net/HttpURLConnection.html#HTTP_PROXY_AUTH)
	HTTP Status-Code 407: Proxy Authentication Required.
int	<pre>HTTP_REQ_TOO_LONG (https://developer.android.com/reference/java/net/HttpURLConnection.html#HTTP_REQ_TOO_LONG)</pre>
	HTTP Status-Code 414: Request-URI Too Large.
int	<pre>HTTP_RESET (https://developer.android.com/reference/java/net/HttpURLConnection.html#HTTP_RESET)</pre>
	HTTP Status-Code 205: Reset Content.
int	HTTP_SEE_OTHER (https://developer.android.com/reference/java/net/HttpURLConnecti

on.html#HTTP_SEE_OTHER)

HTTP Status-Code 303: See Other.

on.html#HTTP_NO_CONTENT)

(https://developer.android.com/reference/java/net/HttpURLConnecti

int	HTTP_SERVER_ERROR (https://developer.android.com/reference/java/net/HttpURLConnection.html#HTTP_SERVER_ERROR)
	This constant was deprecated in API level 1. it is misplaced and shouldn't have existed.
int	HTTP_UNAUTHORIZED (https://developer.android.com/reference/java/net/HttpURLConnection.html#HTTP_UNAUTHORIZED)
	HTTP Status-Code 401: Unauthorized.
int	HTTP_UNAVAILABLE (https://developer.android.com/reference/java/net/HttpURLConnection.html#HTTP_UNAVAILABLE)
	HTTP Status-Code 503: Service Unavailable.
int	HTTP_UNSUPPORTED_TYPE (https://developer.android.com/reference/java/net/HttpURLConnection.html#HTTP_UNSUPPORTED_TYPE)
	HTTP Status-Code 415: Unsupported Media Type.
int	HTTP_USE_PROXY (https://developer.android.com/reference/java/net/HttpURLConnection.html#HTTP_USE_PROXY)
	HTTP Status-Code 305: Use Proxy.
int	HTTP_VERSION (https://developer.android.com/reference/java/net/HttpURLConnection.html#HTTP_VERSION)
	HTTP Status-Code 505: HTTP Version Not Supported.
Fields	
protected int	<pre>chunkLength (https://developer.android.com/reference/java/net/HttpURLConnecti on.html#chunkLength)</pre>
	The chunk-length when using chunked encoding streaming mode for output.
protected int	<u>fixedContentLength</u> (https://developer.android.com/reference/java/net/HttpURLConnection.html#fixedContentLength)

The fixed content-length when using fixed-length streaming mode.

protected long <u>fixedContentLengthLong</u>

(https://developer.android.com/reference/java/net/HttpURLConnection.html#fixedContentLengthLong)

The fixed content-length when using fixed-length streaming mode.

protected boolean

<u>instanceFollowRedirects</u>

(https://developer.android.com/reference/java/net/HttpURLConnecti

on.html#instanceFollowRedirects)

If true, the protocol will automatically follow redirects.

protected String

<u>method</u>

(https://developer.android.com/re (https://developer.android.com/reference/java/net/HttpURLConnecti ference/java/lang/String.html) on.html#method)

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

protected int

<u>responseCode</u>

(https://developer.android.com/reference/java/net/HttpURLConnecti

on.html#responseCode)

An int representing the three digit HTTP Status-Code.

protected <u>String</u>

<u>responseMessage</u>

(https://developer.android.com/re (https://developer.android.com/reference/java/net/HttpURLConnectiference/java/lang/String.html) on.html#responseMessage)

The HTTP response message.

Inherited fields

From class <u>java.net.URLConnection</u> (https://developer.android.com/reference/java/net/URLC

protected boolean <u>allowUserInte</u>

(https://develope /reference/java/n ction.html#allowl n)

If true, this URL examined in a col it makes sense to interactions such up an authenticat

protected boolean

connected

	(https://developer. ference/java/net/L html#connected)
	If false, this conn has not created a communications li specified URL.
protected boolean	doInput (https://developer. ference/java/net/L html#doInput)
	This variable is set setDoInput meth
protected boolean	doOutput (https://developer. ference/java/net/L html#doOutput)
	This variable is set setDoOutput me
protected long	ifModifiedSinc (https://developer. ference/java/net/L html#ifModifiedSir
	Some protocols su the fetching of the the object has been more recently than
protected <u>URL</u> (https://developer.android.com/reference/java/net/URL.html)	url (https://developer. ference/java/net/L html#url)
	The URL represent object on the Work which this connect
protected boolean	useCaches (https://develope /reference/java/n ction.html#useCa
	If true , the proto to use caching wl

Protected constructors

HttpURLConnection

(https://developer.android.com/reference/java/net/HttpURLConnection.html#HttpURLConnection(java.net.URL))

(URL (https://developer.android.com/reference/java/net/URL.html) u)

Constructor for the HttpURLConnection.

Public methods

abstract void <u>disconnect</u>

(https://developer.android.com/reference/java/net/HttpURLConnection.html#disconnect())

()

Indicates that other requests to the server are unlikely in the near future.

InputStream

<u>getErrorStream</u>

(https://developer.android.com/re (https://developer.android.com/reference/java/net/HttpURLConnectiference/java/io/InputStream.html)on.html#getErrorStream())

()

Returns the error stream if the connection failed but the server sent useful data nonetheless.

static boolean

<u>getFollowRedirects</u>

(https://developer.android.com/reference/java/net/HttpURLConnection.html#getFollowRedirects())

()

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

String

<u>getHeaderField</u>

(https://developer.android.com/re (https://developer.android.com/reference/java/net/HttpURLConnectiference/java/lang/String.html) on.html#getHeaderField(int))

(int n)

Returns the value for the nth header field.

long

<u>getHeaderFieldDate</u>

(https://developer.android.com/reference/java/net/HttpURLConnection.html#getHeaderFieldDate(java.lang.String,%20long))

(String

(https://developer.android.com/reference/java/lang/String.html)

name, long Default)

Returns the value of the named field parsed as date.

String

getHeaderFieldKey

ference/java/lang/String.html)

(https://developer.android.com/re (https://developer.android.com/reference/java/net/HttpURLConnecti

on.html#getHeaderFieldKey(int))

(int n)

Returns the key for the nth header field.

boolean

<u>getInstanceFollowRedirects</u>

(https://developer.android.com/reference/java/net/HttpURLConnecti on.html#getInstanceFollowRedirects())

()

Returns the value of this HttpURLConnection's instanceFollowRedirects field.

Permission

<u>getPermission</u>

(https://developer.android.com/re (https://developer.android.com/reference/java/net/HttpURLConnecti ference/java/security/Permission. on.html#getPermission())

html)

()

Returns a **SocketPermission**

(https://developer.android.com/reference/java/net/SocketPermission

object representing the permission necessary to connect to the

destination host and port.

String

<u>getRequestMethod</u>

(https://developer.android.com/re (https://developer.android.com/reference/java/net/HttpURLConnecti ference/java/lang/String.html) on.html#getRequestMethod())

()

Get the request method.

int

<u>getResponseCode</u>

(https://developer.android.com/reference/java/net/HttpURLConnecti

on.html#getResponseCode())

()

Gets the status code from an HTTP response message.

String

<u>getResponseMessage</u>

(https://developer.android.com/re (https://developer.android.com/reference/java/net/HttpURLConnecti ference/java/lang/String.html) on.html#getResponseMessage())

()

	Gets the HTTP response message, if any, returned along with the response code from a server.				
void	<pre>setChunkedStreamingMode (https://developer.android.com/reference/java/net/HttpURLConnecti on.html#setChunkedStreamingMode(int)) (int chunklen)</pre>				
	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	<pre>setFixedLengthStreamingMode (https://developer.android.com/reference/java/net/HttpURLConnecti on.html#setFixedLengthStreamingMode(int)) (int contentLength)</pre>				
	This method is used to enable streaming of a HTTP request body without internal buffering, when the content length is known in advance.				
void	<pre>setFixedLengthStreamingMode (https://developer.android.com/reference/java/net/HttpURLConnecti on.html#setFixedLengthStreamingMode(long)) (long contentLength)</pre>				
	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	<pre>setFollowRedirects (https://developer.android.com/reference/java/net/HttpURLConnecti on.html#setFollowRedirects(boolean)) (boolean set)</pre>				
	Sets whether HTTP redirects (requests with response code 3xx) should be automatically followed by this class.				
void	<pre>setInstanceFollowRedirects (https://developer.android.com/reference/java/net/HttpURLConnecti on.html#setInstanceFollowRedirects(boolean)) (boolean followRedirects)</pre>				
	Sets whether HTTP redirects (requests with response code 3xx)				

void <u>setRequestMethod</u>

(https://developer.android.com/reference/java/net/HttpURLConnection.html#setRequestMethod(java.lang.String))

should be automatically followed by this ${\tt HttpURLConnection}$

(<u>String</u>

instance.

(https://developer.android.com/reference/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

<u>usingProxy</u>

 $(https://developer.android.com/reference/java/net/HttpURLConnection.html \verb|#usingProxy|())$

()

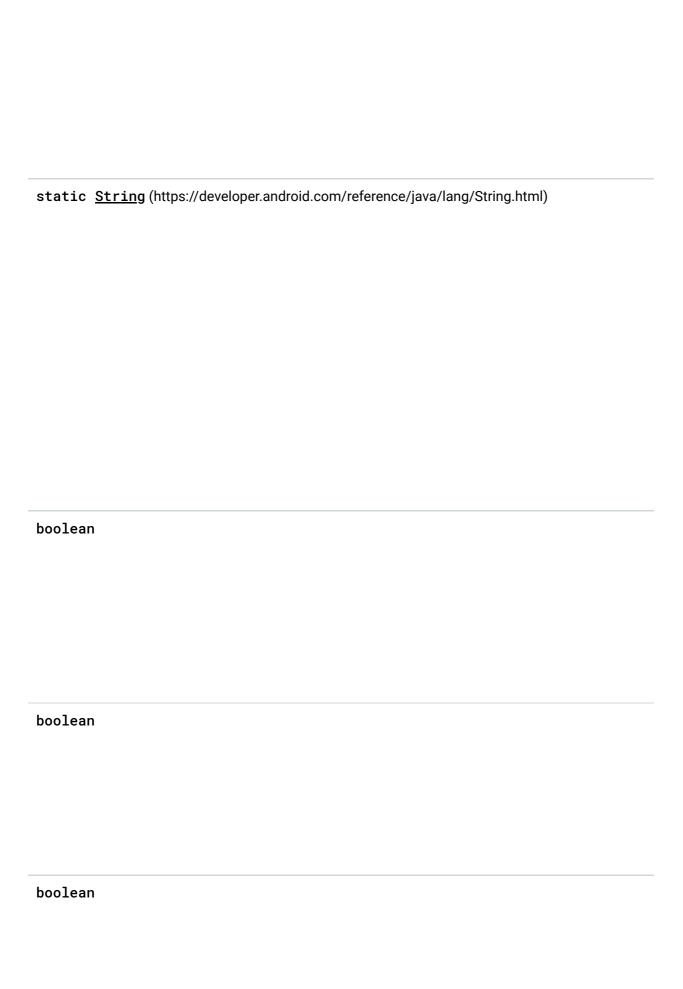
Indicates if the connection is going through a proxy.

Inherited methods

From class <u>java.net.URLConnection</u> (https://developer.android.com/reference/java/net/URLC void

boolean
int
Object (https://developer.android.com/reference/java/lang/Object.html)
object (https://developer.android.com/reference/java/lang/object.html)
Object (https://developer.android.com/reference/java/lang/Object.html)

int					
long					
String (htt	os://developer.andro	id.com/refere	ence/java/lang	g/String.html)	
long					



long
static FileNameMap (https://developer.android.com/reference/java/net/FileNameMap.html)
Static <u>intervallenap</u> (https://developer.android.com/reference/java/net/fileNamewap.html)
<u>String</u> (https://developer.android.com/reference/java/lang/String.html)
<u>String</u> (https://developer.android.com/reference/java/lang/String.html)
<u>SET Trig</u> (https://developer.android.com/reference/java/lang/string.html)
long

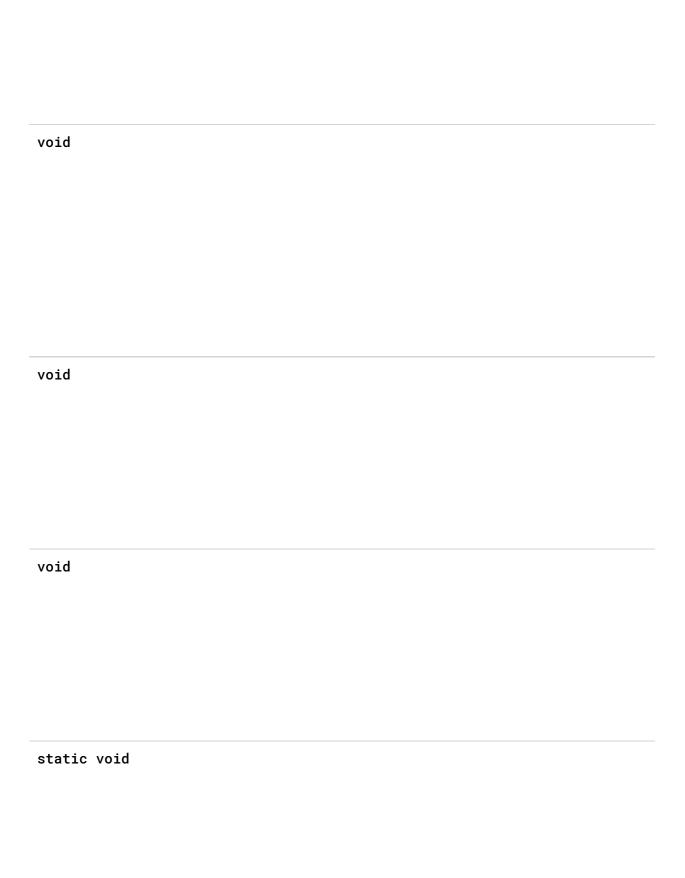
int
<u>String</u> (https://developer.android.com/reference/java/lang/String.html)
long
Man (https://developer.android.com/reference/java/util/Man.html\ <string.(https: developer.android<="" td=""></string.(https:>
<u>Map</u> (https://developer.android.com/reference/java/util/Map.html)< <u>String</u> (https://developer.android.com/reference/java/util/List.html)< <u>String</u> (https://developer.android.com/reference/java/util/List.html)<

long
<u>InputStream</u> (https://developer.android.com/reference/java/io/InputStream.html)
long
OutputStream (https://developer.android.com/reference/java/io/OutputStream.html)
<u></u>
<u>Permission</u> (https://developer.android.com/reference/java/security/Permission.html)
int

<u>Map</u> (https://developer.android.com/reference/java/util/Map.html)< <u>String</u> (https://developer.android.com/reference/java/util/List.html)< <u>String</u> (https://developer.android.com/reference/java/util/List.html)<
String (https://developer.android.com/reference/java/lang/String.html)
<u>URL</u> (https://developer.android.com/reference/java/net/URL.html)
boolean

static	<u>String</u> (https://developer.android.com/reference/java/lang/String.html)
a+a+ia	Ct wing (https://dougloper.ondroid.com/reference/jove/long/Ctring html)
static	<u>String</u> (https://developer.android.com/reference/java/lang/String.html)
void	
ال نامار	
void	





void			
void			
void			
void			

 $\underline{\textbf{String}} \ (\textbf{https://developer.android.com/reference/java/lang/String.html})$

From class <u>java.lang.0bject</u> (https://developer.android.com/reference/java/la	ng/Object.html)
<u>Object</u> (https://developer.android.com/reference/java/lang/Object.html)	<u>clone</u> (https
	Creates and r
boolean	<u>equals</u>
	(https://develo
	(<u>Object</u> (http
	Indicates whet
void	<u>finalize</u> (htt
	Called by the g
	no more refere
final <u>Class</u> (https://developer.android.com/reference/java/lang/Class.html)	getClass (htt
	Returns the rur
int	<u>hashCode</u> (htt
	Returns a hash
final void	<u>notify</u> (https
	Wakes up a sin
final void	<pre>notifyAll (h</pre>
	Wakes up all th
String (https://developer.android.com/reference/java/lang/String.html)	toString (htt
	Returns a strin
final void	wait (https://c

	Causes the cur (https://develc notifyAll() method for this real time has e
final void	<u>wait</u> (https://c millis)
	Causes the cur (https://develc notifyAll() method for this
final void	wait (https://
	Causes the cu (https://deve <u>notifyAll(</u> method for th

Constants

HITETR ACCEPTED

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

HTTP Status-Code 202: Accepted.

Constant Value: 202 (0x000000ca)

HITETIRABADALGATEWAY

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

HTTP Status-Code 502: Bad Gateway.

Constant Value: 502 (0x000001f6)

HOTEL RABADEL METHOD

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

HTTP Status-Code 405: Method Not Allowed.

Constant Value: 405 (0x00000195)

HOTET RABADEL REQUEST

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

HTTP Status-Code 400: Bad Request.

Constant Value: 400 (0x00000190)

HITTRAGILLENT_TIMEOUT

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

HTTP Status-Code 408: Request Time-Out.

Constant Value: 408 (0x00000198)

HITETRAGONEFLICT

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

HTTP Status-Code 409: Conflict.

Constant Value: 409 (0x00000199)

HITETIR_AGIRECATED

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

HTTP Status-Code 201: Created.

Constant Value: 201 (0x000000c9)

HITETRAENEVAITY_TOO_LARGE

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

HTTP Status-Code 413: Request Entity Too Large.

Constant Value: 413 (0x0000019d)

HITETR_FORBIDDEN

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

HTTP Status-Code 403: Forbidden.

Constant Value: 403 (0x00000193)

HITETR_GATEWAY_TIMEOUT

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

HTTP Status-Code 504: Gateway Timeout.

Constant Value: 504 (0x000001f8)

HITETIR_AGIQNE

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

HTTP Status-Code 410: Gone.

Constant Value: 410 (0x0000019a)

HITETRANTERNAL_ERROR

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

HTTP Status-Code 500: Internal Server Error.

Constant Value: 500 (0x000001f4)

HTETRALENGTH_REQUIRED

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

HTTP Status-Code 411: Length Required.

Constant Value: 411 (0x0000019b)

HOTETRAM QUED_PERM

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

HTTP Status-Code 301: Moved Permanently.

Constant Value: 301 (0x0000012d)

HITETRAMQVED_TEMP

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

HTTP Status-Code 302: Temporary Redirect.

Constant Value: 302 (0x0000012e)

HITETRAMULT_CHOICE

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

HTTP Status-Code 300: Multiple Choices.

Constant Value: 300 (0x0000012c)

HITETRANQTELACCEPTABLE

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

HTTP Status-Code 406: Not Acceptable.

Constant Value: 406 (0x00000196)

HITETRANQJELAUTHORITATIVE

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

HTTP Status-Code 203: Non-Authoritative Information.

Constant Value: 203 (0x000000cb)

HITETRANQIELFOUND

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

HTTP Status-Code 404: Not Found.

Constant Value: 404 (0x00000194)

HOTEL IMPLEMENTED

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

HTTP Status-Code 501: Not Implemented.

Constant Value: 501 (0x000001f5)

HITETRANQTEL MODIFIED

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

HTTP Status-Code 304: Not Modified.

Constant Value: 304 (0x00000130)

HITETRANQ CONTENT

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

HTTP Status-Code 204: No Content.

Constant Value: 204 (0x000000cc)

Hotel RAP Kevel 1

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

HTTP Status-Code 200: OK.

Constant Value: 200 (0x000000c8)

HITETRAPARTIAL

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

HTTP Status-Code 206: Partial Content.

Constant Value: 206 (0x000000ce)

HITETRAPAXMENT_REQUIRED

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

HTTP Status-Code 402: Payment Required.

Constant Value: 402 (0x00000192)

HITETRAPRECON_FAILED

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

HTTP Status-Code 412: Precondition Failed.

Constant Value: 412 (0x0000019c)

HITETR_PROXY_AUTH

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

HTTP Status-Code 407: Proxy Authentication Required.

Constant Value: 407 (0x00000197)

HITTRAREQUITOO_LONG

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

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

Constant Value: 414 (0x0000019e)

HJETRARESET

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

HTTP Status-Code 205: Reset Content.

Constant Value: 205 (0x000000cd)

HOTETRASEE OTHER

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

HTTP Status-Code 303: See Other.

Constant Value: 303 (0x0000012f)

HITTRASERVER_ERROR

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

This constant was deprecated in API level 1.

it is misplaced and shouldn't have existed.

HTTP Status-Code 500: Internal Server Error.

Constant Value: 500 (0x000001f4)

HITETRAUNAUTHORIZED

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

HTTP Status-Code 401: Unauthorized.

Constant Value: 401 (0x00000191)

HITETRAHNAVAILABLE

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

HTTP Status-Code 503: Service Unavailable.

Constant Value: 503 (0x000001f7)

HITETRAUNSUPPORTED_TYPE

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

HTTP Status-Code 415: Unsupported Media Type.

Constant Value: 415 (0x0000019f)

HITETRAUSE PROXY

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

HTTP Status-Code 305: Use Proxy.

Constant Value: 305 (0x00000131)

HITETIR_AVERSION

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

HTTP Status-Code 505: HTTP Version Not Supported.

Constant Value: 505 (0x000001f9)

Fields

shunk Length

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

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

fixedContentLength

partotetein tend leivett fixed Content Length

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

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

NOTE: <u>fixedContentLengthLong</u>

(https://developer.android.com/reference/java/net/HttpURLConnection.html#fixedContentLengthLong) is recommended instead of this field, as it allows larger content lengths to be set.

fixed Contents ength Long

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

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

instance Follow Redirects

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

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)

(https://developer.android.com/reference/java/net/HttpURLConnection.html#setInstanceFollowRedirects(boolean))

getInstanceFollowRedirects()

(https://developer.android.com/reference/java/net/HttpURLConnection.html#getInstanceFollowRedirects())

setFollowRedirects(boolean)

(https://developer.android.com/reference/java/net/HttpURLConnection.html#setFollowRedirects(boole an))

method | level 1

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

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

response Code

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

An int representing the three digit HTTP Status-Code.

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

responseMessage

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

The HTTP response message.

Protected constructors

HttpURLConnection

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

Constructor for the HttpURLConnection.

Parameters

u URL: the URL

Public methods

disconnecte 1

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

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.

getErrorStream

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

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

<u>InputStream</u> an error stream if any, null if there have been no errors, the connection (https://developer.android.com/reis not connected or the server sent no useful data. ference/java/io/InputStream.html)

getFallowRedirects

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

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

Returns

boolean

 ${\bf true} \ {\bf if} \ {\bf HTTP} \ {\bf redirects} \ {\bf should} \ {\bf be} \ {\bf automatically} \ {\bf followed}, \ {\bf false} \ {\bf if}$

See also:

setFollowRedirects(boolean)

(https://developer.android.com/reference/java/net/HttpURLConnection.html#setFollowRedirects(boole an))

getHeaderField

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

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 <u>getHeaderFieldKey</u> (https://developer.android.com/reference/java/net/HttpURLConnection.html#getHeaderFieldKey(int)) method to iterate through all the headers in the message.

Parameters

n int: an index, where $n \ge 0$.

Returns

String

the value of the nth header field, or null if the value does not exist.

(https://developer.android.com/re ference/java/lang/String.html)

See also:

getHeaderFieldKey(int)

(https://developer.android.com/reference/java/net/HttpURLConnection.html#getHeaderFieldKey(int))

gatHeaderFieldDate

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

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.

Parameters

name	String: the name of the header field.
Default	long: a default value.
Returns	
long	the value of the field, parsed as a date. The value of the Default argument is returned if the field is missing or malformed.

gatheader Field Key

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

Returns the key for the n^{th} header field. Some implementations may treat the 0^{th} header field as special, i.e. as the status line returned by the HTTP server. In this case, getHeaderField(0)

(https://developer.android.com/reference/java/net/HttpURLConnection.html#getHeaderField(int)) returns the status line, but getHeaderFieldKey(0) returns null.

Parameters

n int: an index, where n >= 0.

Returns

String

the key for the nth header field, or null if the key does not exist.

(https://developer.android.com/re ference/java/lang/String.html)

gatinatance Follow Redirects

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

Returns the value of this HttpURLConnection's instanceFollowRedirects field.

Returns

boolean

the value of this HttpURLConnection's instanceFollowRedirects field.

See also:

<u>instanceFollowRedirects</u>

(https://developer.android.com/reference/java/net/HttpURLConnection.html#instanceFollowRedirects)

setInstanceFollowRedirects(boolean)

(https://developer.android.com/reference/java/net/HttpURLConnection.html#setInstanceFollowRedirec ts(boolean))

getParmission

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

Returns a <u>SocketPermission</u>

(https://developer.android.com/reference/java/net/SocketPermission.html) object representing the permission necessary to connect to the destination host and port.

Returns

Permission

a SocketPermission object representing the permission necessary

(https://developer.android.com/reto connect to the destination host and port.

ference/java/security/Permission.

html)

Throws

IOException

if an error occurs while computing the permission.

(https://developer.android.com/re ference/java/io/IOException.html)

gatRaquestMethod

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

Get the request method.

Returns

String

the HTTP request method

(https://developer.android.com/re ference/java/lang/String.html)

See also:

setRequestMethod(java.lang.String)

(https://developer.android.com/reference/java/net/HttpURLConnection.html#setRequestMethod(java.lang.String))

gatResponseCode

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

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

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

int

the HTTP Status-Code, or -1

Throws

IOException

if an error occurred connecting to the server.

(https://developer.android.com/re ference/java/io/IOException.html)

gatRasponse Message

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

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

0

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

String

the HTTP response message, or null

(https://developer.android.com/re ference/java/lang/String.html)

Throws

IOException

if an error occurred connecting to the server.

(https://developer.android.com/re ference/java/io/IOException.html)

set@hunkedStreamingMode

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

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

int: 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

<u>IllegalStateException</u> if URLConnection is already connected or if a different streaming (https://developer.android.com/remode is already enabled. ference/java/lang/IllegalStateExc eption.html)

See also:

setFixedLengthStreamingMode(int)

(https://developer.android.com/reference/java/net/HttpURLConnection.html#setFixedLengthStreaming Mode(int))

set Fixed Length Streaming Mode

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

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.

NOTE: setFixedLengthStreamingMode(long)

(https://developer.android.com/reference/java/net/HttpURLConnection.html#setFixedLengthStreaming Mode(long))

is recommended instead of this method as it allows larger content lengths to be set.

Parameters

contentLength

int: The number of bytes which will be written to the OutputStream.

Throws

<u>IllegalStateException</u> if URLConnection is already connected or if a different streaming (https://developer.android.com/remode is already enabled. ference/java/lang/IllegalStateExc eption.html)

<u>IllegalArgumentException</u> if a content length less than zero is specified.

(https://developer.android.com/re ference/java/lang/IllegalArgument Exception.html)

See also:

setChunkedStreamingMode(int)

(https://developer.android.com/reference/java/net/HttpURLConnection.html#setChunkedStreamingMo de(int))

setFixedlengthStreamingMode

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

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 <a href="http://example.com/http://example.com

(https://developer.android.com/reference/java/net/HttpRetryException.html) 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.

The content length set by invoking this method takes precedence over any value set by setFixedLengthStreamingMode(int)

(https://developer.android.com/reference/java/net/HttpURLConnection.html#setFixedLengthStreaming Mode(int))

Parameters

contentLength

long: The number of bytes which will be written to the OutputStream.

Throws

<u>IllegalStateException</u> if URLConnection is already connected or if a different streaming (https://developer.android.com/remode is already enabled. ference/java/lang/IllegalStateExc eption.html)

IllegalArgumentException if a content length less than zero is specified.

(https://developer.android.com/re ference/java/lang/IllegalArgument Exception.html)

setFollowRedirects

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

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

boolean: a **boolean** indicating whether or not to follow HTTP redirects.

Throws

<u>SecurityException</u> if a security manager exists and its **checkSetFactory** method (https://developer.android.com/redoesn't allow the operation. ference/java/lang/SecurityExcepti on.html)

See also:

<u>SecurityManager.checkSetFactory()</u>

(https://developer.android.com/reference/java/lang/SecurityManager.html#checkSetFactory())

getFollowRedirects()

(https://developer.android.com/reference/java/net/HttpURLConnection.html#getFollowRedirects())

setInstanceFollowRedirects

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

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

boolean: a **boolean** indicating whether or not to follow HTTP redirects.

See also:

instanceFollowRedi	re	cts
--------------------	----	-----

(https://developer.android.com/reference/java/net/HttpURLConnection.html#instanceFollowRedirects)

getInstanceFollowRedirects()

(https://developer.android.com/reference/java/net/HttpURLConnection.html #getInstanceFollowRedirects())

setRequestMethod

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

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 String: the HTTP method

Throws

ProtocolException

if the method cannot be reset or if the requested method isn't valid for HTTP.

(https://developer.android.com/re ference/java/net/ProtocolExcepti on.html)

<u>SecurityException</u> if a security manager is set and the method is "TRACE", but the (https://developer.android.com/re"allowHttpTrace" NetPermission is not granted. ference/java/lang/SecurityExcepti on.html)

See also:

getRequestMethod()

(https://developer.android.com/reference/java/net/HttpURLConnection.html#getRequestMethod())

Listing Proxyel 1

(https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

Indicates if the connection is going through a proxy.

Returns

boolean a boolean indicating if the connection is using a proxy.

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