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## Using RoboHelp (2017 release)



May 2, 2017











The body getter steps are to return null if this's body is null; otherwise this's body's stream. The init argument is an object whose properties can be set as follows: method. failure Attempting to fully read the contents of the response's body failed, e.g., due to an I/O error. Switch on policy: null `cross-origin` Return allowed. cache Returns the cache mode associated with request, which is a string indicating how the request will interact with the browser's cache mode is "no-store" or "reload", then: If httpRequest's header list contains `Range`, then append (`Accept-Encoding`, `identity`) to httpRequest's header list. Let request be requestObject's request be requestObject's request's method is not in methods, request's method is not a CORS-safelisted method, and request's credentials mode is "include" or methods does not contain `\*`, then return a network error. a byte sequence Fully reading the contents of the response's body succeeded. In contrast, a MIME type's parameters can typically be safely ignored. A is a header name that is a byte-case-insensitive match for one of These are headers that can be set by privileged APIs, and will be removed if the request is modified by unprivilaged APIs. `Range` headers are commonly used by downloads and media fetches, although neither of these currently specify how. Let response be the result of running HTTP-network-or-cache fetch given a new fetch params whose request is preflight. Firefox39+Safari10.1+Chrome43+ Opera30+Edge79+ Edge (Legacy)16+IENone Firefox for Android39+iOS Safari10.3+Chrome for Android39+i handle Fetch Done given response response be to finalize and report timing with response, global Object, and "fetch". If ALPN was not used for protocol negotiations, the user agent may use another descriptive string. [RFC7301] To determine whether fetching a request should be blocked due to a bad port, run these steps: A port is a bad port if it is listed in the first column of the following table. The associated timing info is stored in the cache alongside the response. The protocol cannot be spoofed through HTTP requests in that case. That layering is different from Fetch, which first creates a handshake, then sets up a connection and transmits the handshake, and finally validates the response. If given, processResponseEndOfBody must be an algorithm accepting a response is a filtered response is a filtered response whose type is "basic" and header list excludes any headers in internal response whose type is "basic" and header list excludes any headers in internal response is a filtered response whose type is "basic" and header list excludes any headers in internal response is a filtered response whose type is "basic" and header list excludes any headers in internal response whose type is "basic" and header list excludes any headers in internal response whose type is "basic" and header list excludes any headers in internal response whose type is "basic" and header list excludes any headers in internal response whose type is "basic" and header list excludes any headers in internal response whose type is "basic" and header list excludes any headers in internal response whose type is "basic" and header list excludes any headers in internal response whose type is "basic" and header list excludes any headers in internal response whose type is "basic" and header list excludes any headers in internal response whose type is "basic" and header list excludes any headers in internal response whose type is "basic" and header list excludes any headers in internal response whose type is "basic" and header list excludes any headers in internal response whose type is "basic" and header list excludes any headers in internal response whose type is "basic" and header list excludes any headers in internal response whose type is "basic" and header list excludes any headers in internal response whose type is "basic" and header list excludes any headers in internal response whose type is "basic" and header list excludes any headers in internal response whose type is "basic" and header list excludes any headers in internal response whose type is "basic" and header list excludes any headers in internal response whose type is "basic" and header list excludes any headers in the header list excludes any headers and head request if request's cache mode is "no-store" or a `Cache-Control: no-store' or a `Cache-Cont Firefox for Android50+iOS Safari11+Chrome for Android64+Android WebView64+Samsung Internet9.0+Opera MobileYes The `X-Content-Type` header against the destination of a reguest. For each unsafeName in the CORS-unsafe request-header names with request's header list, if unsafeName is not a byte-case-insensitive match for an item in headerNames and request's credentials mode is "include" or headerNames does not contain `\*`, return a network error. bodyUsed Returns whether requestOrResponse's body has been read from. ABNF for the values of the headers used by the CORS protocol: Access-Control-Request-Method = method Access-Control-Allow-Origin = origin-or-null / wildcard Access-Control-Allow-Origin = origin-or-null / #method Access-Control-Allow-Headers = #field-name For `Access-Control-Allow-Headers`, 'request, "request, is "about", "blob", "data", "file", or an HTTP(S) scheme. Response/headers In all current engines. Traditionally, APIs accept a range was not request, run these steps: Let newRequest be a copy of request, run these steps: Let newRequest be a copy of request, run these steps: Let newRequest be a copy of request, run these steps: Let newRequest be a copy of request, run these steps: Let newRequest be a copy of request, run these steps: Let newRequest be a copy of request, run these steps: Let newRequest be a copy of request, run these steps: Let newRequest be a copy of request, run these steps: Let newRequest be a copy of request, run these steps: Let newRequest be a copy of request, run these steps: Let newRequest be a copy of request request be a copy of request. has an associated unsafe-request flag. Otherwise, return a network error. Request/json In all current engines. If init["keepalive"] exists, then set request's keepalive to it. mode request's mode. Headers/has In all current engines. Set source to object. Firefox61+Safari10.1+Chrome65+ Opera52+Edge79+ Edge (Legacy)14+IENone Firefox for Android61+iOS Safari10.3+Chrome for Android65+Android WebView65+Samsung Internet9.0+Opera Mobile47+ request . A request has an associated redirect mode, which is "follow", "error", or "manual". See the flag's usage for a detailed description of the attack. "all" Relevant service workers will get a fetch event for this fetch. Normalization is done for backwards compatibility and consistency across APIs as methods are actually "case-sensitive". Requirements for user agents are part of the fetch algorithm, except for the new HTTP header syntax. [REFERRER] An HTTP(S) scheme is "http" or "https". Let httpFetchParams be null. Request/formData In all current engines. The , given a header list headers, are determined as follows: A is a header name that is a byte-case-insensitive match for `Authorization`. If there are multiple matched headers their names will all be identical. Suppose the user agent establishes an HTTP/2 connection over TLS 1.3 to send a GET request and a POST request. An ok status is a status in the range 200 to 299, inclusive. Append (name, value) to headers's header list. Append the Fetch metadata headers for httpRequest. If response is not a network error and either request's method is `HEAD` or `CONNECT`, or internalResponse's status is a null body status, set internalResponse's body to null and disregard any enqueuing toward it (if any). The method steps are: If name is not a header name, then throw a TypeError. Increment inflightKeepaliveBytes by inflightKeepal requests necessitating a CORS-preflight request can include credentials. Unless otherwise it is unset. Let input body be input's request's body if input is a Request object; otherwise stated otherwise it is unset. Let input body be input's request can include credentials. Unless otherwise it is unset. Let input body be input's request can include credentials. (Legacy)14+IENone Firefox for AndroidNoneiOS Safari10.3+Chrome for Android42+Android WebView42+Samsung Internet4.0+Opera Mobile29+ headers enew Headers ([init]) Creates a new Headers ([init]) Creates a new Headers object. A request's URL list, current URL, redirect count, response tainting, done flag, and timing allow failed flag are used as bookkeeping details by the fetch algorithm. If that fails for some reason, then throw a TypeError. To a header (name, value) to a Headers object headers, run these steps: Normalize value. If fetchParams's process response consume body is non-null, then: To finalize and report timing given a response response, a global object global, and a string initiatorType (default "other"), run these steps: To scheme fetch, given a fetch params fetchParams: let request be fetchParams's request, switch on request's current URL's path is the string "blank", then return a new response whose status message is `OK`, header list is « (`Content-Type`, `text/html;charset=utf-8`) », and body is the empty byte sequence. Most standards will not need this. Let connection be a new connection be a new connection whose key is key, origin is origin, credentials is credentials, and timing info is timingInfo. If request's client is non-null, then: If useParallelQueue is true, then set taskDestination to the result of starting a new parallel queue. Implementations are encouraged to avoid teeing request's body's stream when request's body's stream when request a range of a cross-origin HTML resource. Headers/append In all current engines. Firefox39+Safari10.1+Chrome42+ Opera29+Edge79+ Edge (Legacy)14+IENone Firefox for Android39+iOS Safari10.3+Chrome for Android42+Android WebView42+Samsung Internet4.0+Opera Mobile29+ Response/blob In all
current engines. Initiator Destination CSP directive Features "" "report" — CSP, NEL reports. To a header name name from a header list list, run these steps: To a header name name from header list list, run these steps: Let initialValue be the result of getting name from list. This ensures uniform processing across the web platform. The redirect getter steps are to return this's request's redirect mode. If response's type is "opaque", internalResponse's status is 206, internal Response's range-requested flag is set, and request's referrer is not "no-referrer", then set response to a network error. If request's referrer is not "no-referrer", then set request's referrer to the result of invoking determine request's referrer. Redirects (a response whose status or internal response's (if any) status is a redirect status) are not exposed to APIs. Exposing redirects might leak information not otherwise available through a cross-site scripting attack. If httpRequest's cache mode is neither "no-store" nor "reload", then: Let timingInfo be fetchParams's timing info. If data does not start with "bytes=", then return false. Assert: the code point at position within input is U+0022 ("). For each protocol in protocols, combine (`Sec-WebSocket-Protocol`, protocol) in request's header list. Return candidateValue, interpreted as decimal number. Strip leading and trailing ASCII whitespace from mimeType. headers Returns response's headers as Headers. Each part whose `Content-Disposition` header does not contain a `filename` parameter must be parsed into an entry whose value is the UTF-8 decoded without BOM content of the part. It is not exposed to JavaScript. Firefox39+Safari10.1+Chrome42+Opera29+Edge79+ Edge (Legacy)14+IENone Firefox for Android42+Android WebView42+Samsung Internet4.0+Opera Mobile29+ headers. Implementations will still need to support it as a destination. The getter steps are to return true if this's request's body's source is null, redirects and authentication will end up failing the fetch. To perform a CORS check for a request and response, run these steps: To perform a TAO check for a request and response, run these steps: The fetch() method is relatively low-level API for fetching resources. Keep that in mind while reading these alterations. The user-agent-defined object could encompass stream weight and dependency for HTTP/2, and equivalent information used to prioritize dispatch and processing of HTTP/1 fetches. If there was no response, it creates a normal request and updates the HTTP cache with the response. A fetch timing info is a struct used to maintain timing info is a struct used to maintai variable position and optionally an extract-value flag, run these steps: Let position. For instance, the user agent could keep the connection open if it knows there's only a few bytes of transfer remaining on a reusable connection. Any other kind of HTTP response is not successful and will either end up not being shared or fail the CORSpreflight request. processResponseEndOfBody Takes an algorithm that will be passed a response. Request/clone In all current engines. The integrity metadata. A request has an associated replaces client id (a string). A is a byte byte for which one of the following is true: byte is less than 0x20 and is not 0x09 HT byte is 0x22 ("), 0x28 (left parenthesis), 0x34 ((), 0x5C (), 0x5C (), 0x5D ([), 0x7D ([), 0x7 use-URL-credentials flag. A response has an associated body (null or a body). This is the Living Standard. The resending is needed when the connection is timed out, for example. 5.3. Body mixin interface mixin Body { readonly attribute ReadableStream? cache mode request's cache mode. Otherwise, if this's guard is "request-no-cors" and name/value is not a no-CORS-safelisted request-header, return. If response's aborted flag is set, then abort fetch with p, request, and terminate these substeps. A request can it be observed by virtue of the credentials being included. Let mimeType be null. Otherwise: Let parsedReferrer be the result of parsing referrer with baseURL. If parsing failed, then return null. Developers can set headers either at the API layer or in the service worker layer (typically through a Request object). Return body and Content-Type. Depending on the implementation it might also not be possible to limit on max-age, then set max-age to the imposed limit. If includeCredentials is true, then: If the user agent is not configured to block cookies be the result of running the "cookie-string" algorithm (see section 5.4 of [COOKIES]) with the user agent's cookie store and httpRequest's current URL. To perform the incrementally-read loop, given a ReadableStreamDefaultReader object reader, parallel queue or global object taskDestination, algorithm processBodyChunk, algorithm process null. Let rangeStart be the result of collecting a sequence of code points that are ASCII digits, from data given position. A range header denotes an inclusive byte string ); undefined set(ByteString ); undefined set(ByteStrin cannot represent more than one `Set-Cookie` header. The goal is to unify fetching across the web platform and provide consistent handling of everything that involves, including: To do so it also supersedes the HTTP `Origin` header semantics originally defined in The Web Origin Concept. In the old days, XMLHttpRequest could be used to set request's credentials mode to "include": var client = new XMLHttpRequest() client.open("GET", "./") client.withCredentials: "include" }).then(/\* ... \*/) suffices. Let body be the percent-decoding of encodedBody. Request/redirect In all current engines. Record connection timing info given connection and use connection to establish an HTTP connection to host, taking proxy and origin into account. Request/cache In all current engines. Typically response's body's stream is still being enqueued to after returning. This indicates that the request was intentionally aborted by the developer or end-user. Otherwise, set temporaryValue to temporaryValue, and origin into account. followed by 0x2C 0x20, followed by value. status Returns response's status. To extract a body and a `Content-Type` header value from a byte sequence or BodyInit object if object is a ReadableStream object. If initialValue is null, then return null. Variousset of before the sequence or BodyInit object object is a ReadableStream object. If initialValue is null, then return null. Variousset of before the sequence or BodyInit object object. If initialValue is null, then return null. edge cases in mapping HTTP/1's status-code to this concept are worked on in issue #1156. Serialize and isomorphic encode first, and append the result to rangeValue. The ok getter steps are to return true if this's response's status; otherwise false. [REFERRER] Return the result of running main fetch given fetchParams and true. However, this is not widely supported by browser caches. cross-origin isolated capability (default false) A boolean. Baker, Ryan Sleevi, Samy Kamkar, Sébastien Cevey, Sendil Kumar N, Shao-xuan Kang, Shivakumar Jagalur Matt, Shivani Sharma, Sigbjørn Finne, Simon Pieters, Simon Sapin, Srirama Chandra Sekhar Mogali, Stephan Paul, Steven Salat, Sunava Dutta, Surya Ismail, Tab Atkins-Bittner, Takashi Toyoshima, 吉野剛史 (Takeshi Yoshino), Thomas Roessler, Thomas Roessler, Thomas Steiner, Thomas Stein HTML's "embed" object-src HTML's "font" font-face "image" img-src HTML's , /favicon.ico resource, SVG's , CSS' background-image, CSS' bac importScripts() "serviceworker" child-src, script-src, worker-src media-src, script-src, worker-src media-src, script-src, worker "style" style-src HTML's , CSS' @import "track" media-src HTML's "video" media-src HTML's element "download" "" — HTML's contains that header's name. It is a pointer to the last URL in request's URL list. If proxy is "DIRECT", then set hosts to the result of running resolve an origin given key and url's origin. Append (`Connection`, `Upgrade`) to request's header list. A request has an associated mode, which is "same-origin", "cors", "no-cors", "n HTTP newline byte is 0x0A (LF) or 0x0D (CR). This is useful for standards that wish to operate on the entire response's aborted flag. A fetch record has an associated fetch (a fetch algorithm or null). Set body's stream to out1. Return p. It needs to be an opt-in mechanism to prevent leaking data from responses behind a firewall (intranets). Otherwise, if mimeType's essence is "application/x-www-form-urlencoded", then: Otherwise, throw a TypeError. Request's credentials mode controls the flow of credentials during a fetch. A Response object's body is its response's body. HTTP whitespace is U+000A LF, U+000D CR, or an HTTP tab or space. [HTML] [SW] request's mode is "same-origin" Return a network error. Because the flag on the responses in the redirect chain, this is also tracked internally using the request's timing allow failed flag. If rangeStart, interpreted as decimal number, is greater than rangeEnd, interpreted as decimal number, then return false. Service workers can only be created from URLs whose scheme is an HTTP(S) scheme. Let globalObject be request's client's global object. Its processing model is defined here as the model defined in HTTP is not compatible with web content. A script at wants to fetch some data from . The user agent may be asked to suspend the ongoing fetch. This algorithm is used by HTML's navigate algorithm. Let baseURL be this's relevant settings object's API base URL. If we expose redirects that secret would be available through a cross-site scripting attack. Otherwise Return a network error. A response has an associated URL. A request has an associated response tainting, which is "basic", "cors", or "opaque". Let candidateValue be null. To given a tuple (header name name, structured field value structured field efficient ways. If server developers wish to denote this explicitly, the 403 status can be used, coupled with omitting the relevant
headers. Return a network error. Let response be null. The particulars (apart from the cache key) are not tied down as they are not pertinent to the system the Fetch Standard establishes. Let sizeAlgorithm be an algorithm that accepts a chunk object and returns a non-negative, non-NaN, non-infinite number, chosen by the user agent. This lets us reject promises with predictable timing, when the request to abort comes from the same thread as the call to fetch. ALPN negotiated protocol (default the empty byte sequence) A byte sequence. The credentials getter steps are to return this's request's credentials mode. If action is non-null, then run these steps in in parallel: Run action. If the user agent does not provide for a cache, then return response. Only HTML's navigate algorithm uses this check with forNavigation set to true, and it's always for nested navigations. It is layered on top of HTTP and allows responses to declare they can be shared with other origins. Let requestObject be the result of invoking the initial value of Request as constructor with input and init as arguments. At this point headers such as `Accept-Encoding`, `Connection`, `DNT`, and `Host`, are to be appended if necessary. Set this's signal to a new AbortSignal object with this' relevant Realm. If rangeEnd's length is 0, then return true. If the cross-origin resource policy internal check with origin, "unsafe-none", response, and forNavigation return blocked. Firefox51+Safari10.3+Chrome for Android46+Android WebView46+Samsung Internet5.0+Opera Mobile33+ request. [INFRA] This specification uses terminology from the ABNF, Encoding, HTML, HTTP, IDL, MIME Sniffing, Streams, and URL Standards. If request's local-URLs-only flag is set and request's current URL is not local, then set response to a network error. [HTTP fetchParams's cross-origin isolated capability. An HTTP tab or space is U+0009 TAB or U+0020 SPACE. Headers/Headers In all current engines. Firefox39+Edge79+ Edge (Legacy)14+IENone Firefox for Android39+iOS Safari10.3+Chrome for Android42+Android WebView42+Samsung Internet4.0+Opera Mobile 29+ requestOrResponse. The getter steps are to return true if this's request's history-navigation flag is set; otherwise false. JSON Return the result of running parse JSON from bytes on bytes. Let contentLength be httpRequest's body's length, if httpRequest's body is non-null; otherwise full. "none" No service workers will get events for this fetch. If the cross-origin resource policy internal check with origin, embedder policy's report only value, response, and forNavigation returns blocked, then queue a cross-origin embedder policy (const [name, value] of headers can be iterated over. Copyright © WHATWG (Apple, Google, Mozilla, Microsoft). In case the user agent is using an experimental, non-registered protocol, the user agent must use the user agent must use the user agent must use the user agent is possible for this field to be set to null due to certain redirects. Firefox39+Safari10.1+Chrome42+ Opera29+Edge79+ Edge (Legacy)14+IENone Firefox for Android39+iOS Safari10.3+Chrome for Android42+Android WebView42+Samsung Internet4.0+Opera Mobile29+ Response/bodyUsed In all current engines. The Fetch Standard also defines the fetch() JavaScript API, which exposes most of the networking functionality at a fairly low level of abstraction. The value pairs to iterate over are the return value of running sort and combine with this's header list. The clone() method steps are: Response In all current engines. This will only remove U+0020 SPACE code points, if any. Let encodedBody be the remainder of input. To determine if a byte sequence value is a , perform the following steps. Return a new FormData object, appending each entry, resulting from the parsing operation, to its entry list. To a header (name, value) to a header (n e.g., to feed image data to a decoder, the associated internal response can be used, which is only "accessible" to internal specification algorithms and is never a filtered response itself. The `Content-Length` header is largely defined in HTTP. To translate a potential destination potential Destination, run these steps: If potentialDestination is "fetch", then return the empty string. Otherwise Return false. referrer A string whose value is a same-origin URL, "about:client", or the empty string, to set request's referrer. window.promise = fetch(").then(res => res.body.getReader().closed) The user agent cannot terminate the fetch as termination would be observable via the registered handler. If values is null, then return failure. Responses over an HTTP/2 does not support them. To a header name from a header list list, remove all headers whose name is a byte-case-insensitive match for name from list. This step is needed because we don't want to report violations not related to Cross-Origin Embedder Policy below. Switch on request's mode: "websocket connection be the result of obtaining a WebSocket connection, given request's current URL. The above is a rough approximation of what is needed for `multipart/form-data`, a more detailed parsing specification is to be written. referrer Returns the referrer of request. Request/integrity In all current engines. priority request's priority. If given, processResponseConsumeBody must be an algorithm accepting a response and null, failure, or a byte sequence. The cache getter steps are to return this's request's cache mode. An object including the Body interface mixin is said to be unusable if its body is non-null and its body's stream is disturbed or locked. Let fallbackMode be null. clone() Returns a clone of request. This response is referred to as the filtered response's associated with request. error steps, given e Queue a fetch task to run processBodyError given e, with taskDestination. Otherwise, return a network error. A Request object has an associated request. It then updates the HTTP cache with the response. An HTTP response to a CORS-preflight request can include the following headers: Headers/Access-Control-Allow-Methods In all current engines. referrer policy associated with request. A part whose `Content-Disposition` header contains a `name` parameter whose value is `\_charset\_` is parsed like any other part. Let actualResponse be response, if response is not a filtered response. and response's internal response otherwise. This catches a cross-origin resource redirecting to a same-origin URL. FirefoxNoneSafari11.1+ChromeNone Opera MobileNone Response/body In all current engines. Let highWaterMark be a non-negative, non-NaN number, chosen by the user agent. [HTTP-CACHING] [HTTP-CA buffer. For resources where data is protected through IP authentication or a firewall (unfortunately relatively common still), using the CORS protocol is unsafe. set(name, value) Replaces the value of the first header whose name is name with value and removes any remaining headers whose name is name. Return true. For the moment, Fetch only supports header values as byte sequences, which means that these objects can be set in header lists only via serialization, and they can be obtained from header lists only by parsing. has(name) Returns whether there is a header whose name is name. That is, not all its fields are available straight away. If the HTTP request results in a TLS client certificate dialog, then: To transmit request's body body, run these steps: If body is null and fetchParams's process request end-of-body and fetchParams's process request end-of-body is non-null, then queue a fetch task given fetchParams's process request end-of-body and fetchParams's process request end-of-body is non-null, then queue a fetch task given fetchParams's process request end-of-body and fetchParams's process request end-of-body is non-null, then queue a fetch task given fetchParams's process request end-of-body and fetchParams's process request end-of-body is non-null, then queue a fetch task given fetchParams's process request end-of-body is non-null, then queue a fetch task given fetchParams's process request end-of-body is non-null, then queue a fetch task given fetchParams's process request end-of-body is non-null, then queue a fetch task given fetchParams's process request end-of-body is non-null, then queue a fetch task given fetchParams's process request end-of-body is non-null, then queue a fetch task given fetchParams's process request end-of-body is non-null, then queue a fetch task given fetchParams's process request end-of-body is non-null, then queue a fetch task given fetchParams's process request end-of-body is non-null, then queue a fetch task given fetchParams's process request end-of-body is non-null, then queue a fetch task given fetch task give AndroidNoneiOS Safari10.3+Chrome for Android42+Android WebView42+Samsung Internet4.0+Opera Mobile29+ headers. Return a new data: URL struct whose MIME type is mimeTypeRecord and body is body. "document" HTML's navigate algorithm (top-level only). Therefore, servers should expect cross-origin web content to be allowed to trigger non-preflighted requests with the following non-safelisted `Content-Type` header values: `application/csp-report` [CSP] `application/csp-request` [OCSP] Specification/csp-request values: `application/csp-report` in the following non-safelisted `Content-Type` header values: `application/csp-request` [OCSP] Specification/csp-request values: `application/csp-request` [OCSP] Specification/csp-request values: `application/csp-request values: `application/ for the security consequences. Otherwise, if body is non-null: Let processBodyError given e be these steps: Let processBodyError given e be these steps: Let processBodyError, and fetchParams's task destination. The result might be the empty string. Set Content-Type to `multipart/form-data boundary=`, followed by the multipart/form-data boundary string generated by the multipart/form-data boundary string. This standardizes the error handling for servers that violate HTTP. Set
response to the result of making an HTTP request over connection using request with the following caveats: Follow the relevant requirements from HTTP. See infra/201. A standard that uses this argument cannot operate on response's body itself as providing this argument will cause it to be read and it can be read only once. To obtain a connection, given a network partition key key, URL url, boolean credentials, an optional new connection setting new (default "no"), and an optional boolean http3Only (default false), run these steps: If new is "no", then: Let proxies be the result of finding proxies for url in an implementation-defined manner. Unless stated otherwise, it is the empty string. If connection uses HTTP/2, then transmit an RST\_STREAM frame. Features need to have the relevant values defined in their respective standards. [RFC2397] A data: URL struct is a struct that consists of a MIME type (a MIME type) and a body (a byte sequence). It is used for all HTTP fetches whose request's response tainting is "cors". as well as those where request's method is neither `GET` nor `HEAD`. Otherwise, set request's referrer to parsedReferrer. body; readonly attribute boolean bodyUsed; [NewObject] Promise json(); [NewO want a network layer to be dependent upon, such as HTML, will likely not be exposed here. To filter out responses that are the result of a redirect, do this directly through the API, e.g., fetch(url, { redirect."error" }). This is where non-standard technology such as Web Proxy Auto-Discovery Protocol (WPAD) and proxy auto-config (PAC) come into play If request's window is "client", then set request's client, if request's client, if request's client, if request's window to request a Window object; otherwise "no-window". Let httpCache be the result of determining the HTTP cache partition, given request. Typically this operation would involve DNS and as such caching can happen on DNS servers without key being taken into account. A cache entry consists of: Cache entries must be removed after the seconds specified in their max-age field have passed since storing the entry. Set timingInfo's final network-response start time to the coarsened shared current time given fetchParams's cross-origin isolated capability, immediately after the user agent's HTTP parser receives the first byte of the response (e.g., frame header bytes for HTTP/1.x). If init is not empty, then: This is done to ensure that when a service worker "redirects" a request, e.g., from an image in a cross-origin style sheet, and makes modifications, it no longer appears to come from the original source (i.e. the cross-origin style sheet), but instead from the service worker that "redirected" the request. Request/mode In all current engines. Do not build on this without having a considered discussion with the Fetch Standard community first. If one of the following is true actualResponse's status is 301 or 302 and request's method is `POST actualResponse's status is 303 and request's method is not `GET` or `HEAD` then: If request's body is non-null, then set request's body to the first return value of safely extracting request's client's origin. If either methods or headerNames is failure, return a network error. There a range header where first is 0 and last is 500, is a range of 501 bytes. To HTTP-network-or-cache fetch, given a fetch params fetchParams, an optional boolean isAuthenticationFetch (default false), run these steps: Some implementations might support caching of partial content, as per HTTP Range Requests. Set timingInfo's redirect end time and post-redirect start time to the coarsened shared current time given fetchParams's cross-origin isolated capability. If given, processRequestEndOfBody must be an algorithm accepting no arguments. If connection is not an HTTP/2 connection, request's body is non-null, and request's body's source is null, then append (`Transfer-Encoding`, `chunked`) to request's header list. The second argument's values have the following meaning: null body status. To serialize a response URL for reporting, given a response response, run these steps: To check if Cross-Origin-Embedder-Policy allows credentials, given a request request, run these steps: The result of fetch is a response. Numerous APIs provide the ability to fetch a resource, e.g. HTML's img and script element, CSS' cursor and list-style-image, the navigator.sendBeacon() and self.importScripts() JavaScript APIs. The Fetch Standard provides a unified architecture for these features so they are all consistent when it comes to various aspects of fetching, such as redirects and the CORS protocol. Firefox39+Edge79+ Edge (Legacy)14+IENone Firefox39+Safari10.3+Chrome40+ Opera29+Edge79+ Edge (Legacy)14+IENone Firefox39+ Internet4.0+Opera Mobile29+ response = new Response(body = null [, init]) Creates a Response whose body is body, and status message, and headers are provided by init. Append value to values. Upgrade request to a potentially trustworthy URL, if appropriate. A is a byte sequence that matches the following conditions: The definition of header value is not defined in terms of an HTTP token production as it is broken. If it has any other value, or is missing, the user agent will invoke the failure callback. 2.5. Resolving domains To resolve a domain may be cached. A is a byte sequence that matches the field-name token production. Request In all current engines. close steps Queue a fetch task given processEndOfBody and taskDestination. Port Typical service 1 tcpmux 7 echo 9 discard 11 systat 13 daytime 15 netstat 17 qotd 19 chargen 20 ftp-data 21 ftp 22 ssh 23 telnet 25 smtp 37 time 42 name 43 nicname 53 domain 69 tftp 77 — 79 finger 87 - 95 supdup 101 hostname 102 iso-tsap 103 gppitnp 104 acr-nema 109 pop2 110 pop3 111 sunrpc 113 auth 115 sftp 117 uucp-path 119 nntp 123 ntp 135 epmap 137 netbios-ns 139 netbios-ns 143 imap 161 snmp 179 bgp 389 ldap 427 svrloc 465 submissions 512 exec 513 login 514 shell 515 printer 526 tempo 530 courier 531 chat 532 netnews 540 uucp 548 afp 554 rtsp 556 remotefs 563 nntps 587 submission 601 syslog-conn 636 ldaps 989 ftps-data 990 ftps 993 imaps 995 pop3s 1719 h323gatestat 1720 h323hostcall 1723 pptp 2049 nfs 3659 apple-sasl 4045 npp 5060 sip 5061 sips 6000 x11 6566 sane-port 6665 ircu 6666 ircu 6666 ircu 6666 ircu 6667 ircu 6668 ircu 6667 ircu 6668 ircu 6667 ircu 6667 ircu 6668 ircu 6667 ircu 6667 ircu 6667 ircu 6668 ircu 6667 ircu 6667 ircu 6668 ircu 6667 ircu 6668 ircu 6667 ircu 6668 steps: Headers/Origin In all current engines. A new connection setting is "no", "yes", or "yes-and-dedicated". Firefox39+Safari10.1+Chrome for Android44+Android WebView44+Samsung Internet4.0+Opera Mobile30+ response = Response Firefox3.5+Safari4+Chrome4+ Opera12+Edge79+ Edge (Legacy)12+IE10+ Firefox for Android4+iOS Safari3.2+Chrome status. Suddenly, any script that can be given a particular WebSocket URL can be tricked into communicating to (and potentially sharing secrets with) any host on the internet, even if the script checks that the URL has the right hostname. Objects including the Body interface mixin need to define an associated MIME type algorithm which takes no arguments and returns failure or a MIME type. Always ask domain experts for review, type Returns response's type, e.g., "cors", mode A string to indicate whether the request will use CORS, or will be restricted to same-origin URLs. Sets request's mode. Describing this helps explain the feature and clearly stipulates that connections are keyed on credentials. If input is a string, then: Otherwise: Let origin be this's relevant settings object's origin. These are forbidden so the user agent remains in full control over them. The user agent may either accept or ignore the suspension request. Let signal be null. [RFC7405] Credentials are HTTP cookies, TLS client certificates, and authentication entries are forbidden so the user agent may either accept or ignore the suspension request. (for HTTP authentication). To allow sharing responses cross-origin and allow for more versatile fetches than possible with HTML's form element, the CORS protocol exists. is history navigation (a.k.a. back-foward navigation). If timingInfo's redirect start time is 0, then set timingInfo's redirect start time to timingInfo's redirect start time to timingInfo's start time to timingInfo's start time to timingInfo's redirect start time to timingInfo's start time to timingInfo's start time to timingInfo's redirect start time to timingInfo's redirect start time to timingInfo's start time. [HTTP3] When establishing an HTTP/3 connection, include SETTINGS frame. A request's destination is script-like if it is "audioworklet", "paintworklet", "script", " "sharedworker", or "worker". Request/body In only one current engine. This ensures that a CORS-preflight fetch that happened due to request's use-CORS-preflight flag being set is cached. IANA maintains a list of ALPN Protocol IDs. Return connection. Let values be a list of strings, initially empty. text Return the result of running UTF-8 decode on bytes. final connection timing info (default null) Null or a connection timing info. [HTTP-SEMANTICS] [HTTP-COND] ified-Since`. `If-Match`. or `If-Range`. then set httpRequest's cache mode to "no-store". fetch(").then(res => res.body.getReader().closed) The user agent cannot terminate the fetch because one can observe the termination by registering a handler for the promise object. Response/type In all current engines. If the user agent used TLS Halse Start for this connection, this interval must not include the time needed to receive the server's Finished message. If response is not a network error, and response is not a filtered response, then: Let internal Response is not a network error and response is not a network error, and response is not a network error and response is not a filtered response is not a network error. aborted, which is unset unless otherwise specified. Volunteers welcome. The getter
steps are to return this's headers. Let keyValue be a nonce consisting of a randomly selected 16-byte value that has been forgiving-base64-encoded and isomorphic encoded. When extract a MIME type returns failure or a MIME type whose essence is incorrect for a given format, treat this as a fatal error. It uses `OPTIONS` as method and includes these headers: Headers/Access-Control-Request-Method In all current engines. A null body status is a status that is 101, 204, 205, or 304. Its value ABNF: Cross-Origin-Resource-Policy = %s"same-origin" / %s"same-site" / %s"cross-origin" ; case-sensitive To perform a cross-origin resource policy check, given an origin origin, an environment settings object settings Object, a string destination, a response response response to the `Content-Type` header safelist, as documented in CORS protocol exceptions. They return a response. An HTTP whitespace byte is an HTTP newline byte or HTTP tab or space byte. Return response to a CORS-preflight request that is not a CORS-preflight request that up as allowed below as it will never match anything, as long as embedderPolicyValue is "unsafe-none". Otherwise, they were previously sanitized or are unmodified since they were set by a privileged API. Let timingInfo be fetchParams's timing info. This standard is written by Anne van Kesteren (Mozilla, annevk@annevk.nl). A byte sequence will be safely extracted into a body early on in fetch. FormData Set action to this step: run the multipart/form-data encoding algorithm, with object's entry list and UTF-8. The unsafe-request flag is set by APIs such as fetch() and XMLHttpRequest to ensure a CORS-preflight fetch is done based on the supplied method and header list. Let relevantRealm be this's relevant Realm. Blob Return a Blob whose contents are bytes and type attribute is mimeType. To create a connection, given a network partition key key, origin origin, boolean ttp3Only, run these steps: Set timingInfo's connection start time to the unsafe shared current time. A redirect status is a status that is 301, 302, 303, 307, or 308. If init["window"] exists and is non-null, then: Let inputOrInitBody be initBody if it is non-null; otherwise inputBody. If init["window"] exists, then set window to "no-window". Modify httpRequest's header list per HTTP. [HTTP-SEMANTICS] [HTTP-COND] [HTTP-CACHING] [HTTP-AUTH] [STALE-WHILE-REVALIDATE] "no-store" Fetch behaves as if there is no HTTP cache at all. Queue a fetch task given continueAlgorithm and taskDestination is "document", "embed", "frame", or "object". Firefox3.5+Safari4+Chrome4+ Opera12+Edge79+ Edge (Legacy)12+IE10+ Firefox for Android4+iOS Safari3.2+Chrome for Android4+iOS Safari3.2+C this case it could be worse to close the connection and go through the handshake process again for the next fetch. integrity A cryptographic hash of the resource to be fetched by request has an associated redirect count. Let action be null. Let pullAlgorithm be an action that resumes the ongoing the handshake process again for the next fetch. fetch if it is suspended. Let storedResponse be null. [HTTP] [HTTP-SEMANTICS] [HTTP-COND] explains the CORS protocol as it pertains to server developers. Unless stated otherwise, it is the empty string. A response has an associated status, which is a status. If desired, "failure" could also be shared, but that would make it a successful HTTP response. Headers/X-Content-Type-Options In all current engines. Unless stated otherwise it is `GET`. If this's guard is "request-no-cors", then remove privileged no-CORS request headers from this. This determines which service workers will receive a fetch event for this fetch. If input is a string, it defaults to "same-origin". A request has an associated window ("no-window", "client", or an environment settings object whose global object is a 0x0e 0x0f 0x10, keyValue would be forgiving-base64-encoded to "AQIDBAUGBwgJCgsMDQ4PEC==" and isomorphic encoded to AQIDBAUGBwgJCgsMDQ4PEC==". Request/blob In all current engines. A Request object's MIME type is to return the result of extracting a MIME type from its request/s header list. If position is not past the end of input then: If the code point at position within input is U+0022 ("), then: Otherwise: Assert: the code point at position within input is U+002C (,). [HTML] A request has an associated URL list (a list of one or more URLs). Let stream be a new ReadableStream. If value is null, then return null. If init is given, then fill this with init. Unless stated otherwise, it is a list containing a copy of request's URL. Append (`Sec-WebSocket-Key`, keyValue) to request's header list. If one of the following is true then set request to httpFetchParams's request has an associated priority (null or a user-agent-age defined object). If locationURL is null, then return response. This is used so that the caller to a fetch can determine if sensitive timing data is allowed on the resource fetched by looking at the flag of the response returned. mode Returns the mode associated with request, which is a string indicating whether the request will use CORS, or will be restricted to same-origin URLs. Request/credentials In all current engines. [REFERRER] As stated in Referrer Policy, user agents can provide the end user with options to override request's credentials mode to it. If chunk is not a Uint8Array object, then set continueAlgorithm to this step: run processBodyError given a TypeError. [WSP] If that established a connection, return it, and return failure otherwise. A user agent has an associated CORS-preflight cache. Break. If locationURL is failure, then return a network error. Let rangeEnd be the result of collecting a sequence of code points that are ASCII digits, from data given position. It is a pointer to the last URL in response's URL list and null if response in the null if respon here, this standard will need corresponding changes. If the code point at position within data is not U+002D (-), then return false. "client" is changed to "no-referrer" or a URL during fetching, credentials mode request to Similarly, `Access-Control-Expose-Headers`, `Access-Control-Allow-Methods`, and `Access-Control-Allow-Headers` response headers can only use `\*` as value when request's credentials Returns the credentials mode associated with request, which is a string indicating whether credentials will be sent with the request always, never, or only when sent to a same-origin URL. Otherwise, if headers's guard is "request" and name is a forbidden header name, return. To obtain a WebSocket connection, given a url, run these steps: Let host be url's host. This can later be used as the response to a script element's fetch. clone() Returns a clone of response. A request has an associated timing allow failed flag. If hosts is failure, then continue. Requests with this flag set are subject to additional processing requirements. The fetch() method makes it quite straightforward to fetch a resource and extract its contents as a Blob: fetch("/music/pk/altes-kamuffel.flac") .then(res => res.blob()).then(playBlob) If you just care to log a particular response header: fetch("/", {mode:"cors"}) .then(res => log(res.headers.get("strict-transport-security"))) If you want to check a particular response header and then process the response of a cross-origin resource: fetch(", {mode:"cors"}) .then(res => { if(res.headers.get("content-type") && res.headers.get("content-type").toLowerCase().indexOf("application/json") >= 0) { return res.json() } else { throw new TypeError() } }).then(processJSON) If you want to work with URL query parameters: var url = new URL("), params = {lat:35.696233, long:139.570431} Object.keys(params).forEach(key => url.searchParams.append(key, params[key]) fetch(url).then(/\* ... \*/) If you want to receive the body data progressively: function pump() { return } total = 0 return pump() function pump() { return } body data progressively: function consume(reader) } bytes in total)`) return pump() }) } } fetch("/music/pk/altes-kamuffel.flac") .then(res => consume(res.body.getReader())) .then(() => log("consumed the entire body without keeping the whole thing in memory!")) .catch(e => log("consumed the entire body without keeping the whole thing in memory!")) .then(res => consume(res.body.getReader())) .then(res => log("consumed the entire body without keeping the whole thing in memory!")) .then(res => log("consumed the entire body without keeping the whole thing in
memory!")) .then(res => log("consumed the entire body without keeping the whole thing in memory!")) .then(res => log("consumed the entire body without keeping the whole thing in memory!")) .then(res => log("consumed the entire body without keeping the whole thing in memory!")) .then(res => log("consumed the entire body without keeping the whole thing in memory!")) .then(res => log("consumed the entire body without keeping the whole thing in memory!")) .then(res => log("consumed the entire body without keeping the whole thing in memory!")) .then(res => log("consumed the entire body without keeping the whole thing in memory!")) .then(res => log("consumed the entire body without keeping the whole thing in memory!")) .then(res => log("consumed the entire body without keeping the whole thing in memory!")) .then(res => log("consumed the entire body without keeping the whole thing in memory!")) .then(res => log("consumed the entire body without keeping the whole thing in memory!")) .then(res => log("consumed the entire body without keeping the whole thing in memory!")) .then(res => log("consumed the entire body without keeping the whole thing in memory!")) .then(res => log("consumed the entire body without keeping the whole thing in memory!")) .then(res => log("consumed the entire body without keeping the whole thing in memory!")) .then(res => log("consumed the entire body without keeping the entire bo header-name cache entry match using request, create a new cache entry with request, max-age, null, and headerName. Cache entries may be removed before that moment arrives. To to a request request, with an integer first, and an optional integer last, run these steps: Assert: last is not given, or first is less than or equal to last. Unless stated otherwise, it is false. The WebSocket API, defined in the HTML Standard, has been updated to use this language. This section and its subsections are informative only. Ultimately server developers have a lot of freedom in how they handle HTTP responses and these tactics can differ between the response to the CORS-preflight request and the CORS request that follows it: They can provide a static response. A CORS-preflight request is a CORS protocol is understood. Indicates where the algorithms passed as arguments will be invoked. unsafe-request flag Set. FormData If mimeType's essence is "multipart/form-data", then: Parse bytes, using the value of the `boundary` parameter from mimeType, per the rules set forth in Returning Values from Forms: multipart/form-data. If the extract-value flag is set, then return value. The details of that operation are however quite involved and used to not be written down carefully and differ from one API to the next. Additionally, for requests including credentials it needs to be opt-in to prevent leaking potentially-sensitive data. Append (`Upgrade`, `websocket`) to request's header list. Response/error In all current engines. There is a method cache entry match for method using request and its method is method or `\*`. It provides a convenient way for standards to not have to explicitly set request's window. This is a work in progress. However, any `Set-Cookie` response headers will be respected. Firefox74+Safari12+Chrome for Android73+Android WebView73+Samsung Internet11.0+Opera MobileNone The `Cross-Origin Resource-Policy` response header can be used to require checking a request's origin against a request's origin against a request's origin when request's current URL's origin against a request's mode is "no-cors". Run report Content Security Policy violations for request. Return a new connection timing info whose domain lookup start time is the result of coarsen time given timingInfo's domain lookup end time and crossOriginIsolatedCapability, domain lookup end time is the result of coarsen time given timingInfo's domain lookup end time and crossOriginIsolatedCapability, domain lookup end time is the result of coarsen time given timingInfo's connection start time and crossOriginIsolatedCapability, connection end time is the result of coarsen time given timingInfo's connection end time and crossOriginIsolatedCapability, and ALPN negotiated protocol is timingInfo's ALPN negotiated protocol. This is used during fetching to compute the value of the request's referrer. This can be a pointer to the header list of something else, e.g., of a request as demonstrated by Request objects. In this scenario a request can have an origin that is different from the current client. This is only used by navigation requests and worker requests, but not service worker requests. [TLS] The clamp and coarsen connection service worker requests. not a misspelling of `CHECKIN`). Not only will bar.invalid need to list`` as value for the `Access-Control-Allow-Origin` header (`\*` is not allowed when credentials` header has to be present too: Access-Control-Allow-Origin` header (`\*` is not allowed when credentials` header has to be present too: Access-Control-Allow-Origin` header (`\*` is not allowed when credentials` header has to be present too: Access-Control-Allow-Origin` header (`\*` is not allowed when credentials` header has to be present too: Access-Control-Allow-Origin` header (`\*` is not allowed when credentials` header (`\*` is not allowed when credentials` header has to be present too: Access-Control-Allow-Origin` header (`\*` is not allowed when credentials` header (`\* those two headers with those values, the failure callback will be invoked. The blob() method steps are to return the result of running consume body with this and Blob. Append (header's first item, header's second item) to headers. It is provided as a distinct field solely for the convenience of other standards hooking into Fetch. Although structured a little differently, carrying different properties, and therefore not shareable, a WebSocket connection is very close to identical to an "ordinary" connection. When running action is done, close stream. Unless stated otherwise it is "client". User agents should allow both to be cleared together with HTTP cookies and similar tracking functionality. Firefox47+Safari10.1+Chrome52+ Opera39+Edge79+ Edge (Legacy)14+IENone Firefox for Android47+iOS Safari10.3+Chrome for Android52+Android WebView52+Samsung Internet7.2+Opera Mobile41+ request. Let input be the result of isomorphic decoding initialValue. If httpRequest's body is null and httpRequest's method is `POST` or `PUT`, then set contentLengthHeaderValue to `0`. body Returns requestOrResponse's body as ReadableStream. Indicates the network is done transmitting the response. If source is a byte sequence, then set action to a step that returns source and length to source's length. redirect(url, status = 302) Creates a redirect Response that redirects to url with status status. The method steps are: The method steps are: The method steps are: Normalize value. A fetch record has an associated request, are request, are request for that resource (for example, as the result of a navigation request), if values is null, then return null. Sets request for that resource (for example, as the result of a navigation request), if values is null, then return null. the response will lack 'Access-Control-Allow-Origin' and the user agent will cache that response. Return values. They can provide a dynamic response, tuned to CORS request has associated (a string). Request/bodyUsed In all current engines. An HTTP tab or space byte is 0x09 (HT) or 0x20 (SP). The use-CORS-preflight flag is set if either

one or more event listeners are registered on an XMLHttpRequest upload object or if a ReadableStream object is used in a request. It will share the resource with APIs such as XMLHttpRequest, much like it is already shared with curl and wget. These exceptions are made for requests that can be triggered by web content but whose headers and bodies can be only minimally controlled by the web content. If temporaryValue is null, then set request's referrer to "no-referrer". If max-

```
age is failure or null, then set max-age to 5. Return the result of decoding bytes with codings as explained in HTTP, if decoding does not result in a redirect to . Let methods be the result of extracting header list values given `Access-Control-Allow-
Methods` and response's header list. origin request's origin. The user agent can terminate the fetch because the termination cannot be observed. If mode is non-null, set request's mode to mode. If input is a string, it defaults to "cors". redirect mode request's redirect mode request's redirect mode. The buffer is not needed when request's body's source is non-null, because
request's body can be recreated from it. When request's body's source is null, it means body is created from a ReadableStream object, which means body cannot be recreated and that is why the buffer is needed. A connection pool is an ordered set of zero or more connections. If init["method"] exists, then: If init["signal"] exists, then set signal to it.
This is only used by navigation requests. This work is licensed under a Creative Commons Attribution 4.0 International License. If request's header list does not contain 'Accept', then: Let value be '*/*'. While position is not past the end of input: Append the result of collecting a sequence of code points
that are not U+0022 (") or U+002C (,) from input, given position, to value. The latter clarifies that, e.g., TLS session identifiers are not reused across connections whose credentials are false with connections, processEndOfBody, and
processBodyError. processResponseConsumeBody Takes an algorithm that will be passed a response and null, failure, or a byte sequence. (This is the reason why the CORS protocol had to be invented.) However, otherwise using the following header is safe: Access-Control-Allow-Origin: * Even if a resource exposes additional information based on
cookie or HTTP authentication, using the above header will not reveal it. If the sum of contentLength and inflightKeepaliveBytes is greater than 64 kibibytes, then return a network error. For each method in methods for which there is no method cache entry match using request, create a new cache entry with request, max-age, method, and null. It
would be great if we could make this more normative somehow. Append (name, value) to list. Headers/Access-Control-Request-Headers In all current engines. Set response's URL list to a clone of httpRequest's URL list. This is effectively the user agent implementation of the check to see if the CORS protocol is understood. [HTTPVERBSEC1],
[HTTPVERBSEC2], [HTTPVERBSEC3] To normalize a method, if it is a byte-case-insensitive match for `DELETE`, `GET`, `HEAD`, `OPTIONS`, `POST`, or `PUT`, byte-uppercase it. A user agent has an associated connection pool. To fetch, given a request request, an optional algorithm processRequestBodyChunkLength, an optional algorithm
processRequestEndOfBody, an optional algorithm processResponse EndOfBody, an optional algorithm processResponse EndOfBody, an optional algorithm processResponse EndOfBody, and optional algorithm processResponse EndOfBody, and optional algorithm processResponse (default false), run the steps below. Run these steps, but abort when the ongoing fetch is terminated: If request's window is "no-
window" and request's redirect mode is "error", then set httpFetchParams to fetchParams and httpRequest to request. Let connection given key, url's origin, credentials, proxy, an implementation-defined host from hosts, timingInfo, and http3Only an implementation-defined number of times
in parallel from each other, and wait for at least 1 to return a value. The static redirect(url, status) method steps are: The type getter steps are to return this's response's type. credentials A string indicating whether credentials A string indicating whether credentials will be sent with the request always, never, or only when sent to a same-origin URL — as well as whether any credentials
sent back in the response will be used always, never, or only when received from a same-origin URL. If contentLengthHeaderValue is non-null, then append (`ContentLengthHeaderValue) to httpRequest's header list. Essentially this allows an implementation to pick one or more IP addresses from the return value of resolve a domain
(assuming proxy is "DIRECT") and race them against each other, favor IPv6 addresses, retry in case of a timeout, etc. Note that even so, a CORS-preflight request never includes credentials. method Returns request's HTTP method, which is "GET" by default. Otherwise: Assert: quoteOrBackslash is U+0022 ("). A response's URL list can be empty (for
example, when the response represents an about URL). processRequestEndOfBody Takes an algorithm that will be passed nothing. Algorithms that use script-like should also consider "xslt" as that too can cause script execution. To queue a cross-origin embedder policy CORP violation report, given a response response, an environment settings object
dedicated", then append connection to the user agent's connection pool. The name attribute of the File object must have the value of the `filename` parameter of the part. The method getter steps are to return this's request's method. "omit" Excludes credentials from this request, and causes any credentials sent back in the response to be ignored.
Let policy be the result of getting `Cross-Origin-Resource-Policy` from response's header list. Unless stated otherwise it is "client". This new URL contains a secret. Be aware that any work the server performs might nonetheless leak through side channels, such as timing. Return the code points from position.
requestObject's signal is aborted, then: Abort fetch with p, request, and null. If the HTTP cache contains a matching fresh response it will be returned. Otherwise, referrerPolicy. [SRI] request. Let locationURL be actualResponse's location URL
given request's current URL's fragment. Set httpFetchParams to a copy of fetchParams to a copy of fetchParams and response. Delete name from this's header list. Implementations are encouraged to make this a pointer to the first URL in request's URL list. Unless
 stated otherwise it is null. Firefox3.5+Safari4+Chrome4+ Opera12+Edge79+ Edge (Legacy)12+IE10+ Firefox for Android4+iOS Safari3.2+Chrome for A
failure. If quoteOrBackslash is U+005C (\), then: If position is past the end of input, then append U+005C (\) to value and break. Let input be the result of running the URL serializer on dataURL with exclude fragment set to true. A request will follow redirects by default. Let locally Aborted be false. A request has an associated method (a method).
There is a for headerName using request when there is a cache entry in the user agent's CORS-preflight cache for which there is a cache entry match with pullAlgorithm set to pullAlgorithm, cancelAlgorithm, highWaterMark set to
highWaterMark, and sizeAlgorithm. Unless stated otherwise, it is the empty list. To create a new cache entries, given a request, max-age, method, and headerName, run these steps: To clear cache entries, given a request, max-age, method, and headerName, run these steps: To clear cache entries, given a request, max-age, method, and headerName, run these steps: To clear cache entries, given a request, max-age, method, and headerName, run these steps: To clear cache entries, given a request, max-age, method, and headerName, run these steps: To clear cache entries, given a request, max-age, method, and headerName, run these steps: To clear cache entries, given a request, max-age, method, and headerName, run these steps: To clear cache entries, given a request, max-age, method, and headerName, run these steps: To clear cache entries, given a request, max-age, method, and headerName, run these steps: To clear cache entries, given a request, max-age, method, and headerName, run these steps: To clear cache entries, given a request, max-age, method, and headerName, run these steps: To clear cache entries, given a request, max-age, method, and headerName, run these steps: To clear cache entries, given a request, max-age, method, and headerName, run these steps: To clear cache entries, given a request, max-age, method, and headerName, run the request is the request of the req
network partition key given request, byte-serialized origin is the result of byte-serializing a request origin with request, and URL is request's current URL. Remove the leading "data:" string from input. Other than those that are normalized there are no casing restrictions either. The type attribute of the File object must have the value of the `Content
Type` header of the part if the part if the part has such header, and `text/plain` (the default defined by [RFC7578] section 4.4) otherwise. If internalResponse's body. Append (`Range`, rangeValue) to request's header list. If inputOrInitBody is non-null and
inputOrInitBody's source is null, then: Let finalBody be inputOrInitBody. `Cross-Origin-Resource-Policy: same-site` does not consider a response to a CORS-preflight request can also
include the following header: Headers/Access-Control-Expose-Headers In all current engines. Any responses whose status is in the range 100 to 199, inclusive, and is not 101, are to be ignored, except for the purposes of setting timingInfo's final network-response start time above. Advance position by 1. `same-site` If all of the following are true then
return allowed. Thus in other words, if a resource cannot be accessed from a random device connected to the web using curl and wget the aforementioned header is not to be included. Support therefore needs to be indicated as part of the HTTP response to the CORS-preflight request as well. A filtered response is a limited view on a response that is
not a network error. Set mimeType to temporaryMimeType. A simple range header value is a subset of allowed range header values, but it is the most common form used by user agents when requesting media or resuming downloads. Store httpRequest and forwardResponse in httpCache, as per the "Storing Responses in Caches" chapter of HTTP
Caching. window window. A request has an associate dURL (a URL). Otherwise, let stream be a new ReadableStream, and set up stream. Used to disassociate request from any Window. A Response object's MIME type is to return the result of extracting a MIME type from its response's header list. The above limit ensures that requests that are
 allowed to outlive the environment settings object and contain a body, have a bounded size and are not allowed to stay alive indefinitely. A is a list of zero or more headers. Securely-transported initiator. Hopefully most standards will not need this. timing info A fetch timing info. To fully read a body
body, given an algorithm processBody, an algorithm processBody an algorithm processBody are algorithm processBody an algorithm processBody an algorithm processBody an algorithm processBody an algorithm processBody and request's use-CORS-preflight flag is set, then set methods
to a new list containing request's method. Further details are defined by HTTP. When request's mode is "navigate", its credentials mode is assumed to be "include" and fetch does not currently account for other values. keepalive A boolean to set request's keepalive. These are run in parallel as at this point it is unclear whether response's body is
relevant (response might be a redirect). Let crossOriginIsolatedCapability be false. If mode is "navigate", then throw a TypeError. If signal is not null, then make this's signal follow signal. Firefox39+Safari10.3+Chrome for Android40+Android
WebView40+Samsung Internet4.0+Opera Mobile27+ request = new Request(input [, init]) Returns a new request whose url property is input is a string, and input's url if input is a string, and input is a Request object. The server developer therefore needs to decide whether or not responses "tainted" with credentials can be shared. Request/Request In all current
engines. This is primarily useful for standards that want to operate on response's body's stream directly. The propagation of the origin is only significant for navigation requests being handled by a service worker. The service-workers mode of preflight does not matter as this algorithm uses HTTP-network-or-cache fetch rather than HTTP fetch.
Otherwise, a non-conditional network fetch will be returned to update the entry in the HTTP cache. If globalObject is a Service-workers mode to "none". If connection is failure, then set request whose destination is failure, then set request, and responseObject. A subresource request whose destination is failure, then set request is a Service-workers mode to "none". If connection is failure, then set request is a Service-workers mode to "none". If connection is failure, then set request is a Service-workers mode to "none". If connection is failure, then set request is a Service-workers mode to "none". If connection is failure, then set request is a Service-workers mode to "none". If connection is failure, then set request is a Service-workers mode to "none". If connection is failure, then set request is a Service-workers mode to "none". If connection is failure, then set request is a Service-workers mode to "none". If connection is failure, then set request is a Service-workers mode to "none". If connection is failure, then set request is a Service-workers mode to "none". If connection is failure, then set request is a Service-workers mode to "none". If connection is failure, then set request is a Service-workers mode to "none". If connection is failure, then set request is a Service-workers mode to "none" is a Service-workers mode to "none". If connection is failure, then set request is a Service-workers mode to "none" is a Service-workers mode 
 "audio", "audioworklet", "font", "image", "manifest", "paintworklet", "script", "style", "track", "video", "xslt", or the empty string. [HTML] While fetching encompasses more than just HTTP, it borrows a number of concepts from HTTP and applies these to resources obtained via other means (e.g., data URLs). For requests that are more involved than
what is possible with HTML's form element, a CORS-preflight request is performed, to ensure request is similar, except it is restricted to an ok status, e.g., 200 or 204. It covers slightly more ground than XMLHttpRequest, although it is currently
lacking when it comes to request progression (not response progression). See handle fetch for usage of these terms. processBodyError must be an algorithm accepting an exception task destination (default null) Null, a global object. Response/url In all current engines. A
response will typically get its CORS-exposed header-name list set by extracting header values from the `Access-Control-Expose-Headers` headers are not exposed to client-side JavaScript this is deemed an acceptable
compromise. It has the following items: [RESOURCE-TIMING] [NAVIGATION-TIMING] start time (default 0) redirect start time (default 0) final network-response start time (default 0) final network-response start time (default 0) redirect start time (default 0) final network-response start time (default 0) redirect start time (default 0) final network-response start time (default 0) final net
0) A DOMHighResTimeStamp. If init["integrity"] exists, then set request's integrity metadata to it. An HTTP response to a CORS request can include the following headers: Headers/Access-Control-Allow-Origin In all current engines. Let values be an empty list. Indicates request's body has been transmitted. If init["window"] exists and is non-null, then
throw a TypeError. If the partial response is valid JavaScript (even though the whole resource is not), executing it would leak private data. A request has an associated type which is "basic", "cors", "default", "error", "opaque", or
 "opaqueredirect". client This's relevant settings object. Let initBody be null. request's current URL's scheme is not an HTTP(S) scheme Return a network error. A method is a byte sequence that matches the method token production. A response has an associated service worker timing info (null or a service worker timing info), which is initially null. If
there are no proxies, let proxies be « "DIRECT" ». useParallelQueue Takes a boolean that default 0) connection start time (default 0) connection end time (default 0) connection end time (default 0)
secure connection start time (default 0) A DOMHighResTimeStamp. Terminate the ongoing fetch with the aborted flag set. If mimeType's essence is not exist, and charset is non-null, set mimeType's parameters["charset"] to charset. The statusText getter steps are to return
this's response's status message. To clone a response response is a response whose current age is within its freshness lifetime. If response's body is null, then run processResponseEndOfBody. Let httpCache be null. Add the following abort steps to requestObject's signal: Set locallyAborted to true. Let inflightRecords
be the set of fetch records in group whose request's keepalive is true and done flag is unset. If response is a network error, then reject p with a TypeError and terminate these substeps. This is okay. `content-type` If value contains a CORS-unsafe request-header byte, then return false. Auburn, Raphael Kubo da Costa, Robert Linder, Rondinelly, Rory
Hewitt, Ross A. Let include Credentials be true if one of is true; otherwise false. The fetch algorithm returns such a view to ensure APIs do not accidentally leak information. Response/redirect In all current engines. Ergo, it creates a normal request and updates the HTTP cache with the response. New exceptions can be proposed by filing an issue.
[ABNF] [ENCODING] [HTML] [HTTP] [WEBIDL] [MIMESNIFF] [STREAMS] [URL] ABNF means ABNF as augmented by HTTP (in particular the addition of #) and RFC 7405. "reload" Fetch behaves as if there is no HTTP cache on the way to the network partition key given request.
Set timingInfo's domain lookup end time to the unsafe shared current time. A request has an associated referrer, which is "no-referrer", "client", or a URL. get(name) Returns as a string the values of all headers whose name
is name, separated by a comma and a space. For each fetchRecord in inflightRecords: Let inflightRecords: Let inflightRecords: Let inflightRecords: Let inflightRecords by a comma and a space. For each fetchRecord in inflightRecords: Let infl
 and is not 0x20 (SP), 0x2A (*), 0x2A (*), 0x2C (,), 0x2D (-), 0x2E (.), 0x3B (;), or 0x3D (=), then return false. Otherwise, if headers's guard is "response" and name is a forbidden response algorithm. A Request object also has an associated (null or a Headers object), initially null. `Accept` and
 `Accept-Language` are already included (unless fetch() is used, which does not include the latter by default), and `Accept-Charset` is a waste of bytes. If one of request's header list's names is a CORS non-wildcard request-header name and is not a byte-case-insensitive match for an item in headerNames, then return a network error. This specification
depends on the Infra Standard. processRequestBodyChunkLength Takes an algorithm that will be passed the number of bytes that have been transmitted from the request's body. processBody must be an algorithm that will be passed the number of bytes that have been transmitted from the request's body. processBody must be an algorithm that will be passed the number of bytes that have been transmitted from the request's body.
steps are to return the result of running consume body with this and text. Set timingInfo's final network-request start time to the coarsened shared current time given fetchParams's cross-origin isolated capability. If the user agent reads from request's body beyond that buffer's size and the user agent needs to resend request, then instead return a
network error. Wait until all the headers are transmitted. Implementations could choose the more efficient Headers object representation even for a header list, as long as they also support an associated data structure for `Set-Cookie` headers. CSP will also need to check request's client's global object's browsing contexts ancestor browsing contexts.
for various CSP directives. To record connection to the server or proxy, as follows: The returned time must
include the time interval to establish the transport connection, as well as other time intervals such as SOCKS authentication. It is primarily a specification device to assist defining CSP and Mixed Content. This list is used by a CORS filtered response to determine which headers to expose. Using `patch` is highly likely to result in a `405 Method Not
Allowed`. To HTTP-network fetch, given a fetch params fetchParams, an optional boolean includeCredentials (default false), run these steps: Let request be fetchParams's request. Rather, an HTML parser API might accept a stream in due course. To determine the network partition key,
given an environment settings object settings, run these steps: To determine the HTTP cache partition, given request, run these steps: To determine the HTTP cache partition, given request, run these steps: To determine the HTTP cache partition, given request, run these steps: To determine the network partition key, given request, run these steps: To determine the HTTP cache partition, given request, run these steps: To determine the metwork partition key, given request, run these steps: To determine the https://doi.org/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j.com/10.1001/j
return true if this's response's URL list has more than one item; otherwise false. The formData. (Can only be used when request's mode is "same-origin". However, if `Access-Control-Allow-Origin` is set to * or a static origin for a particular resource, then
configure the server to always send `Access-Control-Allow-Origin` in responses for the resource — for non-CORS requests as well as CORS requests. This is called when headers object (headers), run these steps: This is called when headers are modified by unprivileged code. "same-origin" Include
credentials with requests made to same-origin URLs, and use any credentials sent back in responses from same-origin URLs. "include" Always includes credentials with this request, and always use any credentials sent back in the responses from same-origin URLs. "include" Always includes credentials with this request, and always use any credentials sent back in the response. As part of the CORS protocol, the user agent will include the `Origin` header in the request. Origin: Upon
receiving a response from bar.invalid, the user agent will verify the `Access-Control-Allow-Origin` response header. Request be fetchParams's request. Generally speaking, both sharing responses and allowing requests with credentials is rather unsafe, and extreme care has to be taken
to avoid the confused deputy problem. Get a structured field value intentionally does not distinguish between a header not being present and its value failing to parse as a structured field value. For the purposes of fetching, there is an API layer (HTML's img, CSS' background-image), early fetch layer, service worker layer, and network & cache layer
A request has an associated done flag. Set httpCache to the result of determining the HTTP cache partition, given httpRequest. Firefox for Android59+iOS SafariYesChrome for And
header indicates where a fetch originates from. Headers/delete In all current engines. A CORS filtered response is a filtered response is a filtered response whose type is "cors" and header list excludes any header list excludes any header list.
Otherwise, if this's guard is "response" and name is a forbidden response-header name, return. As mandated by HTTP, this still takes the `Vary` header into account. This way a potentially unsafe response cannot accidentally leak. A body consists of: To clone a body body, run these steps: Let « out1, out2 » be the result of teeing body's stream. It is
not included in the list as it is not always relevant and might require different behavior. Let position be a position variable for input, initially pointing at the start of input. If Cross-Origin-Embedder-Policy allows credentials with request returns false, then set includeCredentials to false. A request has associated which is the empty string, "parser-
inserted", or "not-parser-inserted". This is only an effective defense against side channel attacks if noCorsResponse is kept isolated from the process that initiated the request. signal; any window; // can only be set to null }; enum RequestDestination { "", "audio", "audioworklet", "document", "embed", "frame", "iframe", "image", "manifest", "audio", "audio", "audio", "audioworklet", "document", "embed", "frame", "iframe", "iframe", "image", "manifest", "audio", "a
 "object", "paintworklet", "report", "script", , "style", "track", "video", "worker", "xslt" }; enum RequestRedirect { "follow", "error", "cors" }; enum RequestCache { "default", "no-cache", "force-cache", "force-cache", "only-if-cached" }; enum RequestRedirect { "follow", "error", "cors" }; enum RequestRedirect { "follow", "error", "cors" }; enum RequestCache { "default", "no-cache", "force-cache", "force-cache", "only-if-cached" }; enum RequestRedirect { "follow", "error", "cors" }; enum RequestRedirect { "follow", "error", "cors", "co
"manual" }; "serviceworker" is omitted from RequestDestination as it cannot be observed from JavaScript. If position is past the end of input, then return failure. The exact layering between Fetch and HTTP response here. ReadableStream If keepalive is
true, then throw a TypeError. error() Creates network error Response. A request has an associated policy container, which is "client" or a policy container. The destination getter are to return this's request to a new request with the following properties
URL request's URL. If mimeType ends with U+003B (;), followed by zero or more U+0020 SPACE, followed by an ASCII case-insensitive match for "base64", then: If mimeType starts with U+003B (;), then prepend "text/plain" to mimeType. Matt Andrews, Matt Andrews, Matt Andrews, Matt Andrews, Matt Andrews, Matt Andrews, Matt Menke, Matt Oshry, Matt
Seddon, Matt Womer, Mhano Harkness, Michael Ficarra, Michael Ficarra, Michael Ficarra, Michael Moritz Kneilmann, Ms2ger, Nico Schlömer, Nicolás Peña Moreno, Nikhil Marathe, Nikki Bee, Nikunj Mehta, Noam Rosenthal, Odin Hørthe Omdal, Ondřej Žára, O. [RFC7918] If the user
agent sends the request with early data without waiting for the full handshare to complete, this interval must not include the time needed to receive the server's ServerHello message. If response's status is 401, httpRequest's response tainting is not "cors", include Credentials is true, and request's window is an environment settings object, then: If
response's status is 407, then: If all of the following are true response's status is 421 isNewConnectionFetch is false request's body is non-null then: If isAuthentication entry for request and the given realm. If init["redirect"] exists, then set
processResponseEndOfBody set to handleFetchDone, and processResponse given response being these substeps. request's body's source's nullity has already been checked. Set response's request-includes-credentials to includeCredentials. Append each value in extract, in order, to values. (Neither
 credentials nor response header access is important.) var url = "fetch(url).then(success, failure) This will use the CORS protocol, though this is entirely transparent to the developer from foo.invalid. Let cancelAlgorithm be an action that terminates the ongoing fetch with the aborted flag set. If a secure transport is used, timingInfo's secure
connection start time should be the result of calling unsafe shared current time immmediately before starting the handshake process to secure connection. Unless stated otherwise, it is "basic". Set continueAlgorithm to these steps: Run processBodyChunk given bytes. Let forwardResponse be the result of running HTTP-network fetch given
httpFetchParams, includeCredentials, and isNewConnectionFetch. CORB reduces the risk of leaking sensitive data by keeping it further from cross-origin web pages. Let quoteOrBackslash be the code point at position within input. "credentialless" Set policy to `same-origin` if: response's request-includes-credentials is true, or forNavigation is true.
Let headerNames be the result of extracting header list values given `Access-Control-Allow-Headers` and response's header list. scalar value string Set source to the UTF-8 encoding of object. If they are cached, key should be used as part of the cache key. If CORS protocol requirements are more complicated than setting `Access-Control-Allow-Headers` and response's header list.
Origin` to * or a static origin, `Vary` is to be used. Two or more `Cross-Origin-Resource-Policy` headers will have the same effect. Set storedResponse from the httpCache, possibly needing validation, as per the "Constructing Responses from Caches" chapter of HTTP Caching [HTTP-CACHING], if any. delete(name
Removes a header from headers. To fully read body as promise, given a body body, run these steps: If codings are not supported, then return bytes. Read a chunk from readRequest. If aborted is set, then: Otherwise, if stream is readable, error stream with a TypeError.
A helper is provided to add a range header to a particular request's body is a byte sequence, then set request's body to the first return value of safely extracting request's body. To HTTP fetch, given a fetch params fetchParams's
request. Typically actualResponse's body's stream is still being enqueued to after returning. Run these steps, but aborted he returning.
whose destination is "document", "embed", "frame", "object", "report", "serviceworker", or "worker". isReloadNavigation Returns a boolean indicating whether or not request is for a reload navigation. "default" Fetch will inspect the HTTP cache on the way to the network. The `Origin` header is a version of the `Referer` [sic]
header that does not reveal a path. The user agent will make sure to include any relevant credentials in the request has an associated. Let timing Info whose start time are the coarsened shared current time given crossOriginIsolatedCapability. But if `Vary: Origin` is used in the
same scenario described above, it will cause the user agent to fetch a response that includes `Access-Control-Allow-Origin`, rather than using the cached response from the previous non-CORS request that lacks `Access-Control-Allow-Origin`, rather than using the cached response from the previous non-CORS request that lacks `Access-Control-Allow-Origin`.
manner, select a value to return from the returned values and return it. Firefox3.5+Safari4+Chrome4+ Opera12+Edge79+ Edge (Legacy)12+IE10+ Firefox for Android4+iOS Safari3.2+Chrome for Android4+iOS Safari3.2+Ch
client during fetching. Header names starting with `Sec-` are reserved to allow new headers to be minted that are safe from APIs using fetch that allow control over headers by developers, such as XMLHttpRequest. The signal getter steps are to return this's signal. A request has an associated initiator, which is the empty string, "download",
"imageset", "manifest", "prefetch", "prefetch", "prerender", or "xslt". Append (`Access-Control-Request-Method`, request's method) to preflight's header list. The url getter steps are to return the empty string if this's response's URL is null; otherwise this's response's URL, serialized with exclude fragment set to true. Set Content-Type to `application/x-www
form-urlencoded; charset=UTF-8`. To create a Response object, given a response response, headers guard guard, and Realm realm, run these steps: The new Response object, given a new network error, "immutable", and this's relevant
Realm. To a header (name, value) in a header list list, run these steps: To a header list list, run these steps: If list contains name, then set the value of the first such header list. Request/destination In all current engines
Unless stated otherwise, it is "no-cors". Cross-origin read blocking, better known as CORB, is an algorithm which identifies dubious cross-origin resource fetches (e.g., fetches that would fail anyway like attempts to render JSON inside an img element) and blocks them before they reach a web page. Other documents ought not to build on this primitive
without having a considered discussion with the Fetch Standard community first. Let contentLengthHeaderValue be null. A request has an associated cache mode, which is "default", "no-store", "reload", "no-cache", or "only-if-cached". referrer policy request's referrer policy. The location URL of a response response, given null or are
ASCII string requestFragment, is the value returned by the following steps. Let actualResponse be null. If httpRequest's prevent no-cache mode is "no-cache", httpRequest's header list does not contain `Cache-Control`, then append (`Cache-Control`, `max-age=0`) to
httpRequest's header list. Response/Response In all current engines. A CORS-preflight cache is a list of cache entries. The `Allow` header is not relevant for the purposes of the CORS protocol. Return a body whose stream is out2 and other members are copied from body. Firefox39+Safari10.1+Chrome42+ Opera29+Edge79+ Edge
(Legacy)14+IENone Firefox for Android39+iOS Safari10.3+Chrome for Android42+Android WebView42+Samsung Internet4.0+Opera Mobile29+ Response/json In all current engines. This is used during fetching to determine the value of the `Referer` header of the request being made. Set length to object's size. If value's length is greater than 128
then return false. If object is disturbed or locked, then throw a TypeError. It has the following items: request. destination Returns the kind of resource requested by request, e.g., "document" or "script". If last is given, then serialize and isomorphic encode it, and append the result to rangeValue. Append the code point at position within input
to value. Existing web platform features have not always followed this pattern, which has been a major source of security vulnerabilities in those features over the years. Heines, Jianjun Chen, Jinho Bang, Jochen Eisinger, John Wilander, Jonathan Kingston, Jonathan Watt, (Jongchan Choi), Jordan Stephens, Jörn Zaefferer, Joseph
Pecoraro, Josh Matthews, Julian Krispel-Samsel, Julian Reschke, (Jungkee Song), Jussi Kalliokoski, Jxck, Kagami Sascha Rosylight, Keith Yeung, Kenji Baheux, Lachlan Hunt, Larry Masinter, Liam Brummitt, Louis Ryan, Luca Casonato, Lucas Gonze, Łukasz Anforowicz, 呂康豪 (Kang-Hao Lu), Maciej Stachowiak, Malisa, Manfred Stock, Manish
Goregaokar, Marc Silbey, Marcos Caceres, Marijn Kruisselbrink, Mark Nottingham, Mark S. fetch("). then(res => { res.body.getReader().closed.then(() => console.log("stream closed!"))}) (The above examples of non-observability assume that built-in properties and functions, such as body.getReader(), have not been overwritten.) This section
replaces part of the WebSocket protocol opening handshake client requirement to integrate it with algorithms defined in Fetch. The bodyUsed getter steps are to return true if this's body is non-null and this's body's stream is disturbed; otherwise false. In broad strokes, it takes a request and one or more algorithms to run at various points during the
operation. It sends the ClientHello at time t1 and then sends the GET request with early data. Let body be a body whose stream is stream, source is source, and length is length. This step is done here, as resource-timing entries are available only for HTTP fetches, including ones that are handled by service-workers or HTTP cache, and not for, e.g.,
data:, blob: URL fetches, and are only available after all the relevant security checks have succeeded. The use-CORS-preflight flag being set is one of several conditions that results in a CORS-preflight request. Unless stated otherwise, it is unset. A request has an associated boolean keepalive. Set responseObject to the result of creating a Response
object, given response, "immutable", and relevantRealm. "no-cache" Fetch creates a conditional request if there is a response in the HTTP cache and a normal request otherwise. Each connection is identified by an associated key (a network partition key), origin (an origin), and credentials (a boolean). If position is not past the end of data, then returns
false. A response has an associated URL list (a list of zero or more URLs). request's use-CORS-preflight flag is set request suse-CORS-unsafe request flag is set and either request's header list is not empty Otherwise If recursive is true, then return response
Firefox39+Safari10.1+Chrome42+ Opera29+Edge79+ Edge (Legacy)14+IENone Firefox for Android42+Android WebView42+Samsung Internet4.0+Opera Mobile29+ typedef (sequence or record); [Exposed=(Window, Worker)] interface { constructor(optional HeadersInit); undefined append(ByteString
ByteString); undefined delete(ByteString); undefined delete(ByteString); byteString? processBodyChunk must be an algorithm accepting a byte sequence. [RFC8470] If the user agent waits for full handshake even if other requests were sent using early data on connection. Otherwise, if this's guard is
 "request" and name is a forbidden header name, return. The developer of foo.invalid returns, now fetching some data from bar.invalid while including credentials. Firefox39+Edge79+ Edge (Legacy)14+IENone Firefox for Android39+iOS Safari10.3+Chrome for Android40+Android WebView40+Samsung
 Internet 4.0 + Opera\ Mobile 29 + response\ .\ Firefox 39 + Safari 10.1 + Chrome\ 42 + Opera\ 29 + Edge\ (Legacy) 14 + IENone\ Firefox\ for\ Android 39 + ioS\ Safari 10.3 + Chrome\ for\ Android 42 + Android\ WebView 42 + Samsung\ Internet\ 4.0 + Opera\ Mobile 29 + partial\ interface\ mixin\ Window Or Worker Global Scope\ \{\ [NewObject]\ Promise\ fetch (Request Info
input, optional RequestInit init = {}); }; The fetch(input, init) method steps are: Let p be a new promise. For each header values from header values from header list contains whose name is name: Let extract be the result of extracting header values from header values from header values from header values from header list contains whose name is name: Let extract be the result of extracting header values from 
image/svg+xml. If request's redirect count is twenty, return a network error. "Establish a WebSocket connection" consists of three algorithms: setting up a connection, creating and transmiting a handshake request, and validating the handshake response. Request/referrerPolicy In all current engines. formData() Returns a promise fulfilled with
requestOrResponse's body as FormData. Return connection. A request has an associated referrer policy, which is a referrer policy. If mimeTypeRecord is failure, then set m
each value of values: Let temporaryMimeType be the result of parsing value. Let position be a position variable for data. A stale response or a stale-while-revalidate response is a response is a response is a response that is not a fresh response or a stale-while-revalidate response. If this's request's mode is "no-cors", then: If init is not empty, then: The headers are
sanitized as they might contain headers that are not allowed by this mode. `same-origin` If origin is same origin with response's URL's origin, then return allowed. This is done regardless of the presence or the value of a `content-Type` header and regardless of the presence or the value of a `content-Type` header and regardless of the presence or the value of a `content-Type` header and regardless of the presence or the value of a `content-Type` header and regardless of the presence or the value of a `content-Type` header and regardless of the presence or the value of a `content-Type` header and regardless of the presence or the value of a `content-Type` header and regardless of the presence or the value of a `content-Type` header and regardless of the presence or the value of a `content-Type` header and regardless of the presence or the value of a `content-Type` header and regardless of the presence or the value of a `content-Type` header and regardless of the presence or the value of a `content-Type` header and regardless of the presence or the value of a `content-Type` header and regardless of the presence or the value of a `content-Type` header and regardless of the presence or the value of a `content-Type` header and regardless of the presence or the value of a `content-Type` header and regardless of the presence or the value of a `content-Type` header and regardless of the presence or the value of a `content-Type` header and regardless of the presence or the value of a `content-Type` header and regardless of the presence or the value of a `content-Type` header and regardless of the presence or the value of a `content-Type` header and regardless of the presence or the value of a `content-Type` header and regardless of the presence or the value of a `content-Type` header and regardless of the presence or the value of a `content-Type` header and regardless of the presence of a `content-Type` header and regardless of the presence of a `content-Type` header and regardless of the presence of a `content-Type` h
input to fetch is a request. Set request. Set request. Set request urus these steps: Assert: dataURL's scheme is "data". Otherwise, if value is not candidateValue, return failure.
arrayBuffer() Returns a promise fulfilled with requestOrResponse's body as ArrayBuffer. If this throws an exception, reject p with it and return p. append(name, value) Appends a header to headers. The location URL algorithm which handles redirects manually
This definition is also used by Referrer Policy. Otherwise, the user agent should close connection unless it would be bad for performance to do so. If temporaryMimeType is failure or its essence is "*/*", then continue. Thanks to Adam Barth, Adam Lavin, Alan Jeffrey, Alexey Proskuryakov, Andrés Gutiérrez, Andrew Sutherland, Ángel González, Anssi
Kostiainen, Arkadiusz Michalski, Arne Johannessen, Arthur Barstow, Arthur Bars
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 "document" "frame" "iframe" \`text/html,application/xhtml+xml,application/xmtml+xml,application/xml;q=0.9,*/*;q=0.8\`"image"\`image/png,image/svg+xml,image/*;q=0.8\`"image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,image/svg+xml,ima
empty string. keepalive request's keepalive request be a new request by whitespace. Unless stated otherwise, it is "follow". [HSTS] Let request be a new request, whose URL is request be a new request, whose URL is request be a new request, whose URL is request be a new request.
"no-store", and redirect mode is "error". Unless stated otherwise, it is "same-origin". Also, considering "image" was not compatible with deployed content. Headers/Access-Control-Allow-Headers In all current engines. The "DIRECT" value means to not use a proxy for this particular url. [WSP] `permessage-deflate; client_max_window_bits` Append
Fetch uses any response in the HTTP cache matching the request, not paying attention to staleness. For a CORS-preflight request, request's credentials mode is always "same-origin", i.e., it excludes credentials, but for any subsequent CORS requests it might not be. If different error handling is needed, extract the desired header first. A Response
 object also has an associated (null or a Headers object), initially null. If there was no response and whose current age is within the stale-while-revalidate response is a response that is not a fresh response and whose current age is within the stale-while-revalidate response is a response that is not a fresh response and whose current age is within the stale-while-revalidate response is a response that is not a fresh response and whose current age is within the stale-while-revalidate response is a response that is not a fresh response and whose current age is within the stale-while-revalidate response is a response that is not a fresh response and whose current age is within the stale-while-revalidate response is a response and whose current age is within the stale-while-revalidate response is a response and whose current age is within the stale-while-revalidate response is a response and whose current age is within the stale-while-revalidate response is a response and whose current age is within the stale-while-revalidate response is a response and whose current age is within the stale-while-revalidate response is a response and whose current age is within the stale-while-revalidate response is a response and whose current age is within the stale-while-revalidate response is a response and whose current age is a response and whose curren
fetch(").then(res => res.headers) The user agent can terminate the fetch because the termination cannot be observed. This intentionally does not depend on httpRequest's credentials mode. [CSP] A request has an associated destination, which is the empty string, "audioworklet", "document"
"embed", "font", "frame", "iframe", "iframe", "iframe", "iframe", "iframe", "style", "report", "script", "serviceworker", "style", "track", "video", "worker", or "xslt". Input Output O
\ World"" 18 The position variable always starts at 0 in these examples. If locationURL's scheme is not an HTTP(S) scheme, then return a network error. [SW] [RESOURCE-TIMING] A response has an associated (a list of zero or more header names). Let mimeTypeRecord be the result of parsing mimeType. It does not free an API from outlawing
forbidden methods and forbidden header names. To HTTP-redirect fetch, given a fetch params fetchParams and a response response, run these steps: Let request be fetchParams's request. Let Content-Type be null. It is expected to be invoked while in parallel. Steen, Harris Hancock, Henri Sivonen, Henry Story, Hiroshige Hayashizaki, Honza
 Bambas, Ian Hickson, Ilya Grigorik, isonmad, Jake Archibald, James Graham, Janusz Majnert, Jeena Lee, Jeff Carpenter, Jeff Hodges, Jeffrey Yasskin, Jensen Chappell, Jesse M. URL list A clone of request's und its origin is same origin with origin
 then set window to request's window. [HTTP] [HTTP-SEMANTICS] [HTTP-COND] [HTTP-CACHING] [HTTP-AUTH] [TLS] If http3Only is true, then establish an HTTP/3 connection. Request/headers In all current engines. redirected Returns whether response was obtained through a redirect. Then, if the user agent subsequently encounters a CORS
request for the resource, it will use that cached response from the previous non-CORS request, without `Access-Control-Allow-Origin`. "force-cache" Fetch uses any response in the HTTP cache matching the request, not paying attention to staleness. If the ABNF for name allows a single header and list contains more than one, then return failure. For
each proxy of proxies: Set timingInfo's domain lookup start time to the unsafe shared current time. Let mimeType be the result of parsing value. timingInfo's ALPN negotiated protocol is intended to identify the network protocol, this
is the ALPN Protocol IDs that indicates the protocol in use. A response whose type is "error" is known as a network error. Ideally the RFC would be updated with this language, but it is never that easy. [HTML] A request has an associated boolean user-activation. To a Headers object headers with a given object, run these steps: If object is a
sequence, then for each header in object: If header does not contain exactly two items, then throw a TypeError. Other ways, such as communicating with the server through a side-channel are not included. Byte-lowercase name and switch on the result: `accept` If value contains a CORS-unsafe request-header byte, then return false
Firefox3.5+Safari4+Chrome4+ Opera12+Edge79+ Edge (Legacy)12+IE10+ Firefox for Android4+iOS Safari3.2+Chrome 
object has an associated (a header list), which is initially empty. If request's header list contains (`Transfer-Encoding`, `chunked`) and response is transferred via HTTP/1.0 or older, then return a network error. Any other returned values that are connections may be closed. Set Content-Type to `text/plain; charset=UTF-8`. This can be updated during
redirects to `GET` as described in HTTP fetch. Let length be null. 5.2. BodyInit unions typedef (Blob or BufferSource or FormData or URLSearchParams or USVString) XMLHttpRequestBodyInit; typedef (ReadableStream or XMLHttpRequestBodyInit; typedef (ReadableStream or XMLHttpRequestBodyInit) BodyInit; To safely extract a body and a `Content-Type` header value from a byte sequence or
[HTML] To , given a request request and response response
2397. This reuses the casing of the name of the header already in list, if any. window Can only be null. If position is past the end of input, then break. It provides a convenient way for standards to not have to set request's origin. A request has an associated service-workers mode, that is "all" or "none". Firefox39+Safari10.1+Chrome42+
WebView42+Samsung Internet4.0+Opera Mobile29+ Response/text In all current engines. Firefox3.5+Safari3.2+Chrome for Android4+iOS Safari3.2+Chrome for Android4+iOS Safari3.2+Chr
(5 by default) the information provided by the `Access-Control-Allow-Headers` headers can be cached. Set length to unclear, see html/6424 for improving this. processBodyError must be an algorithm accepting no arguments. It references an environment for a navigation request and an environment settings object
for a worker request. If name is not a header value is not a header value, then throw a TypeError. "websocket" is omitted from RequestMode as it cannot be used nor observed from JavaScript. These kind of responses are eventually followed by a "final" response are eventually followed by a "final" r
is a method cache entry match using request, set matching entry's max-age to max-age. Firefox39+Safari10.1+Chrome for Android42+Android WebView42+Samsung Internet4.0+Opera Mobile29+ Response/arrayBuffer In all current engines. To given
a header name name and a header list list, run these steps: If list does not contain name, then return null. Let timingInfo be a new connection timing info. For example, consider a host with a WebSocket server at one path and an open HTTP redirector at another. If response is null, then set response to the result of running the steps corresponding to
the first matching statement: request's current URL's scheme is "data" request's origin, and request's response tainting is "basic" request's current URLs whose scheme is "data" a unique opaque origin. They are used
by various algorithms in Content Security Policy to determine whether requests or responses are to be blocked in a given context. If extract a MIME type were used the following request would not result in a CORS preflight and a naïve parser on the server might treat the request body as JSON: fetch(" ve-endpoint", { method: "POST", headers: [
["Content-Type", "application/json"], ["Content-Type", "text/plain"]], credentials: "include", body: JSON.stringify(exerciseForTheReader) }); `range` if value is not a simple range header value, then return false. [HTTP-CACHING] If the revalidatingFlag is set and forwardResponse's status is 304, then: If response is null, then: Set response to
forwardResponse. If mimeType's essence is not "application/x-www-form-urlencoded", "multipart/form-data", or "text/plain", then return false. A request's initiator is not particularly granular for the time being as other specifications do not require it to be. To share responses with credentials, the `Access-Control-Allow-Origin` and `Access-Co
 Allow-Credentials` headers are important. This can be helpful when working with caching intermediaries. In its essence fetching is an exchange of a request's policy container's referrer policy. Indicates response's header list has been received
 and initialized. [RFC7578] Each part whose `Content-Disposition` header contains a `filename` parameter must be parsed into an entry whose value is a File object whose contents or the part. body; USVString referrer; keferrerPolicy; kequestMode mode; kequestMode mode; kequestMode mode; kequestMode mode; kequestMode mode; kequestMode mode; contents of the part.
RequestRedirect redirect; DOMString integrity; boolean keepalive; AbortSignal? This prevents a partial response from an earlier ranged request. It provides a convenient way for standards to not have to set request's policy container. URLs such as
 "about:config" are handled during navigation and result in a network error in the context of fetching. Remove all HTTP tab or space from the start and processResponse given response being these steps: Fail the WebSocket connection and the WebSocket
connection is established are defined by The WebSocket Protocol. Any cached redirects will be followed assuming request's mode.) If header list contains `If-Modified-Since`, `If-Match`, 
is "default". The constructor steps are: Set this's guard to "none". Headers/set In all current engines. Firefox43+Safari10.1+Chrome46+ Opera33+Edge79+ Edge (Legacy)14+IENone Firefox for Android43+iOS Safari10.3+Chrome for Android46+Android WebView46+Samsung Internet5.0+Opera Mobile33+ request. Assert: potentialDestination is a
destination. Let headers be the CORS-unsafe request-header names with request's header list. A request has an associated client (null or an environment settings object). If a CORS check is done on request rather than preflight to ensure the correct
credentials mode is used. A request has an associated timing allow passed flag, which is initially unset. If request's mode is "only-if-cached" and reguest's mode is not "same-origin", then throw a TypeError. Firefox39+Safari10.1+Chrome40+
Opera27+Edge79+ Edge (Legacy)14+IENone Firefox for Android39+iOS Safari10.3+Chrome for Android40+Android WebView40+Samsung Internet4.0+Opera Mobile27+ request. A response has an associated status message. Response/status In all current engines. To CORS-preflight fetch, given a request request, run these steps: Let preflight be
a new request whose method is `OPTIONS`, URL list is a clone of request's urguest's referrer policy, mode is "cors", and response tainting is "cors". A fetch group holds an ordered list of fetch records. If
httpRequest's referrer is a URL, then: Append a request-header name, and name is not a privileged no-CORS request-header name, and length concepts of a network's response's body are always null. A
request's cryptographic nonce metadata and parser metadata are generally populated from attributes and flags on the HTML element responsible for creating a request. This means that CORB can block CORB-protected MIME types resources without being disruptive to web pages. To clamp and coarsen connection timing info, given a connection
timing info timingInfo, a DOMHighResTimeStamp defaultStartTime, and a boolean crossOriginIsolatedCapability, run these steps: If timingInfo's connection timing info whose domain lookup start time is defaultStartTime, domain lookup end time is defaultStartTime, connection
start time is defaultStartTime, connection end time is defaultStartTime, connection start time is defaultStartTime, and ALPN negotiated protocol is timingInfo's ALPN negotiated protocol is timingInfo's ALPN negotiated protocol is timingInfo's ALPN negotiated protocol.
whose header list is request's header list and guard is "request". Let data be the isomorphic decoding of value. Whenever one or more bytes are available and stream is not errored, enqueue a Uint8Array wrapping an ArrayBuffer containing the available and stream is not errored, enqueue a Uint8Array wrapping an ArrayBuffer containing the available and stream is not errored, enqueue a Uint8Array wrapping an ArrayBuffer containing the available and stream is not errored.
combine multiple responses into one logical resource are historically a source of security bugs. Specifications have allowed limited exceptions to the CORS safelist for non-safelisted `Content-Type` header values. This can be used to allow the request to outlive the environment settings object, e.g., navigator, sendBeacon and the HTML imp element set
this flag. Otherwise, object is a record, then for each key -value in object, append (key, value) to headers. [WEBTRANSPORT-HTTP3] [HTTP3-DATAGRAM] If credentials is false, then do not send a TLS client certificate. It cannot be reliably identified as participating in the CORS protocol as the `Origin` header is also included for all requests whose
method is neither `GET` nor `HEAD`. [COOKIES] [TLS] [HTTP-AUTH] A fetch params is a struct used as a bookkeeping detail by the fetch algorithm. Firefox39+Safari14.5+Chrome for Android60+Android WebView60+Samsung Internet8.0+Opera
Mobile44+ requestOrResponse . The package data algorithm, given bytes, type, and a mimeType, switches on type, and runs the associated steps: ArrayBuffer Return a new ArrayBuffer Return a new ArrayBuffer whose contents are bytes. A default `User-Agent` value is an implementation-defined header value for the `User-Agent` header. To resolve an origin, given a network
partition key key and an origin origin: The same caveat applies. A successful HTTP response, i.e., one where the server developer intends to share it, to a CORS request can use any status, as long as it includes the headers stated above with values matching up with the request. Firefox65+Safari10.1+Chrome43+ Opera30+Edge79+ Edge
(Legacy)14+IENone Firefox for Android65+iOS Safari10.3+Chrome for Android43+Android WebView43+Samsung Internet4.0+Opera Mobile30+ requestOrResponse . Firefox39+Edge79+ Edge (Legacy)14+IENone Firefox for Android39+iOS Safari10.3+Chrome for Android42+Android WebView42+Samsung Internet4.0+Opera Mobile30+ requestOrResponse . Firefox39+Safari10.3+Chrome for Android42+Android WebView42+Samsung Internet4.0+Opera Mobile30+ requestOrResponse . Firefox39+Safari10.3+Chrome for Android43+Android WebView43+Samsung Internet4.0+Opera Mobile30+ requestOrResponse . Firefox39+Safari10.3+Chrome for Android43+Android WebView43+Safari10.3+Chrome for Android WebView43+Safari10.3+Chrome for Android WebView43+Safari10.3+Chrome for Android WebView43+Safari10.3+Chro
Internet4.0+Opera Mobile29+ [Exposed=(Window, Worker)] interface Response { constructor(optional BodyInit? If mimeType is null, then return failure. The way this works is by replacing The WebSocket Protocol's "establish a WebSocket Protocol's "
connection" algorithm with a new one that integrates with Fetch. If policy is neither `same-origin`, `same-site`, nor `cross-origin`, `then set policy to null. An authentication entry are tuples of username, password, and realm, used for HTTP authentication and HTTP proxy authentication, and associated with one or
more requests. If request's timing allow failed flag is unset, then set internalResponse's timing allow passed flag. [SW] A request request request steps: Byte-serializing a request origin, given a request request, is to return the result of
serializing a request origin with request, isomorphic encoded. An opaque filtered response is a filtered response whose type is "opaque", URL list is the empty list, status is 0, status message is the empty byte sequence, header list is empty, and body is null. body A BodyInit object or null to set request's body. Implementations are strongly encouraged
to use an implementation strategy that avoids this copy where possible. It is not exhaustive with respect to features. A request has an associated local-URLs-only flag. Let fetchParams be a new fetch params whose request is request is request is request has an associated local-URLs-only flag. Let fetchParams be a new fetch params whose request is request is request.
end-of-body is processRequestEndOfBody, process response end-of-body is processResponse end-of-body is processResponse end-of-body is processResponse end-of-body is process response end-of-body is processResponse end-of-body is processResponse.
newRequest's body to the result of cloning request's body. The algorithm will be invoked for each transmitted chunk. They return a boolean. This is intentionally a little vague as there are a lot of nuances to connection management that are best left to the discretion of implementers. They return null, failure, or a URL. It will also put stricter
requirements on the response. Unless stated otherwise it is empty, window promise = fetch(") The user agent can terminate the fetch because the associated body is not observable. A response has an associated timing info, which is initially null. If aborted is set, then return an aborted network error, request's mode is "no-
cors" If request's redirect mode is not "follow", then return a network error. To update timing info timingInfo and a response, given a connection timing info timingInfo and a response, perform the following steps: To given a connection timing info timingInfo and a response, perform the following steps: To given a connection timing info tin
an integer, represent it as a string of the shortest possible decimal number. This change of scheme is essential to integrate well with fetching. status message. For such requests there is no way to solely match a header name or method that is `*`. The referrer getter steps are: The referrerPolicy getter steps are to return
this's request's referrer policy. A connection timing info is a struct used to maintain timing information pertaining to the process of obtaining a connection. blob() Returns a promise fulfilled with request of determining the network
partition key given request, entry's byte-serialized origin is the result of byte-serialized origin with request, entry's URL is request origin with request, entry's URL is request, entry's URL is request, entry's URL is request, entry's URL is request, entry's byte-serialized origin is the result of byte-serialized origin with request, entry's URL is request.
terminated: If aborted, then: Let aborted be the termination's aborted flag. For those arguments that take an algorithm will be called from a task (or in a parallel queue if useParallelQueue is true). The POST request is not safe ([HTTP-SEMANTICS], section 4.2.1), so the user agent waits to complete the handshake at time t2 before
sending it. A forbidden method is a method that is a byte-case-insensitive match for `CONNECT`, `TRACE`, or `TRACK`. If initBody is null and inputBody is 
indicating whether or not request can outlive the global in which it was created. signal An AbortSignal to set request's signal. Response/clone In all current engines. If should request be blocked due to a bad port, should fetching request be blocked as mixed content, or should request be blocked by Content Security Policy returns blocked, then set
response to a network error. Let rangeValue be 'bytes='. To create an opaque timing info, given a fetch timing info, return a new fetch timing info, return a 
If noCorsResponse is a filtered response or the CORB check with request and noCorsResponse returns allowed, then return noCorsResponse it will be returned, and a conditional network fetch will be made to update the entry in the HTTP cache. This supplants the definition in
The Web Origin Concept. The `Content-Type` header is largely defined in HTTP. A status is an integer in the range 0 to 999, inclusive. Except for the last URL, if any, a response has an associated range-requested flag, which is initially unset. Let
noCorsResponse be the result of running scheme fetch given fetchParams. A request has an associated (a header list). reload-navigation flag request body (default null) process response end-of-body (default null) process response (default null) process response end-of-body (default null
response consume body (default null) Null or an algorithm. If extract is failure, then return failure. [FETCH-METADATA] If httpRequest's header list does not contain `User-Agent`, then user agents should append (`User-Agent`, then user agents should append (`User-Agent`), then user agents should append (`User-Agent`).
receiving a notification when the stream reaches its end, and is otherwise an identity transform stream. Return mimeType. Set this's request to request. Firefox39+Safari10.1+Chrome40+ Opera29+Edge79+ Edge (Legacy)14+IENone Firefox39+Safari10.3+Chrome40+ Opera29+Edge79+ Edge (Legacy)14+IENone Firefox39+ Edge (Legacy)14+IENone
Mobile29+ response . Firefox3.5+Safari4+Chrome4+ Opera12+Edge79+ Edge (Legacy)12+IE10+ Firefox for Android4+iOS Safari3.2+Chrome for Android4+
as the original source might not even be able to generate the same kind of requests as the service worker. Let value be the empty string. An opaque-redirect filtered response is a filtered response whose type is "opaqueredirect", status is 0, status message is the empty byte sequence, header list is empty, and body is null. Invoke set request's referrer
policy on redirect on request and actualResponse. [HTML] To perform a cross-origin resource policy value embedder policy value embedder policy value embedder policy value is "unsafe-none", then return allowed. Set
(name, value) in this's header list. The user agent should ignore the suspension request if the ongoing fetch is updating the response in the HTTP cache for the request. Otherwise: Set httpRequest to a clone of request. [ORIGIN] To, given a request request, run these steps: A request's referrer policy is taken into account for all fetches where the
fetcher did not explicitly opt into sharing their origin with the server, e.g., via using the CORS protocol. Return blocked. For each headerName in headerNa
point. Firefox3.5+Safari4+Chrome4+ Opera12+Edge79+ Edge (Legacy)12+IE10+ Firefox for Android4+iOS Safari3.2+Chrome for Android4+iOS Safari3.2+
 `Accept-Language`, then user agents should append (`Accept-Language, an appropriate header value) to request's header list. Developers have almost no control over forbidden headers is not empty, then: This intentionally does not use combine, as
0x20 following 0x2C is not the way this was implemented, for better or worse. If candidateValue is the empty string or has a code point that is not an ASCII digit, then return null. Let secure be false, if url's scheme is "http", and true otherwise. text() Returns a promise fulfilled with requestOrResponse's body as string. Note that headers added in the
network layer by the user agent will not be accounted for in this object, e.g., the "Host" header. The status getter steps are to return this's response's status. Let source be null. For each value of values: If candidateValue is null, then set candidateValue is null, then set candidateValue is null, then set candidateValue is null.
headers guard guard, and Realm realm, run these steps: The new Request(input, init) constructor steps are: Let request be null. Unless stated otherwise it is "all". If cookies is not the empty string, then append (`Cookie`, cookies) to httpRequest's header list. A local scheme is "about", "blob", or "data". Please seek security review for features that deal
```

with partial responses. The fetch finale, given a fetch params's process response is a network error, then: Let processResponseEndOfBody be the following steps: If fetchParams's process response is a network error, then: Let processResponseEndOfBody be the following steps: If fetchParams's process response is a network error, then: Let processResponseEndOfBody be the following steps: If fetchParams's process response is a network error, then: Let processResponseEndOfBody be the following steps: If fetchParams's process response is a network error, then: Let processResponseEndOfBody be the following steps: If fetchParams's process response is a network error, then: Let processResponseEndOfBody be the following steps: If fetchParams's process response is a network error, then: Let processResponseEndOfBody be the following steps: If fetchParams's process response is a network error, then: Let processResponseEndOfBody be the following steps: If fetchParams's process response is a network error, then: Let processResponseEndOfBody be the following steps: If fetchParams's process response is a network error, then: Let processResponseEndOfBody be the following steps: If fetchParams's process response is a network error, then: Let processResponseEndOfBody be the following steps: If fetchParams's process response is a network error, then: Let processResponse is a network error er

fetchParams's task destination. `Accept` and `Accept` and `Accept` and `Accept` and `Accept` `Accept` `Accept` `Accept` `Accept` `Accept'	
response. This will be replaced by a more descriptive algorithm in Infra. 4.1. Main fetch To main fetch, given a fetch Params and an optional boolean recursive (default false), run these steps: Let request be fetchParams's request. Due to compatibility constraints it is not included in all fetches. Even without CORB, accessing the content of cross-origin resources with CORB-protected MIME types is either managed by the CORS protocol (e.g., in case of XMLHttpRequest), not observable (e.g., when failing to decode an HTML document embedded in an image lement as an image).  Firefox49+Safari10.1+Chrome57+ Opera44+Edge79+ Edge (Legacy)16+IENone Firefox for Android49+iOS Safari10.3+Chrome for Android49+iOS Safari10.3+Chrome for Android49+iOS Safari10.3+Chrome for Android49+iOS Safari10.3+Chrome for Android57+Android WebView60+Samsung Internet8.0+Opera Mobile43+ response . Increase request's redirect count by one. If httpCache is null, then set request's cache mode to "no-store". If httpRequest's method is unsafe and forwardResponse's status is in the range 200 to 399, inclusive, invalidate appropriate stored responses in httpCache, as per the "Invalidation" chapter of HTTP Caching, and set storedResponse to null. [XHR] A is a header name that is a byte-case-insensitive match for one of: Set-Cookie' Set-Cookie' Set-Cookie' A request-body-header name is a header name that is a byte-case-insensitive match for one of: Content-Language' Con	
ist. Let group be httpRequest's client's fetch group. history-navigation flag request's history-navigation flag. If object's type attribute is not the empty byte sequence, set Content-Type to its value. body = null, optional ResponseInit init = {}); [NewObject] static Response error(); [NewObject] static Response redirect(USVString url, optional unsigned short status = 302); readonly attribute ResponseType type; readonly attribute boolean redirected; readonly attribute boolean ok; readonly attribute boolean ok; readonly attribute boolean ok; readonly attribute ByteString statusText; [SameObject] readonly attribute Headers headers, [NewObject] Response clone(); }; Response includes Body; dictionary ResponseInit { unsigned short status = 200; ByteString statusText = ""; HeadersInit; }; enum ResponseType { "basic", "cors", "default", "error", "opaque", "opa	
header list list a header name name if list contains a header whose name is a byte-case-insensitive match for name. [ORIGIN] At a high level, fetching a resource is a fairly simple operation. Unlike ASCII whitespace this excludes U+000C FF. The consume body algorithm, given an object and type, runs these steps: The arrayBuffer() method steps are to return the result of running consume body with this and ArrayBuffer. To establish a WebSocket connection, given a url, protocols, and client, run these steps: Let requestURL be a copy of url, with its scheme is "ws", and to "https" otherwise. "Observable through script" means observable through fetch()'s arguments and responses object, run these steps: The user agent may terminate an ongoing fetch with a prefectly fine to do so. To abort fetch with a prefectly fine to	
Invoke the success callback. If this's header list does not contain name, then return. If response is not a network error and any of the following returns blocked then set response and internalResponse to a network error. There is no real reason for WebSocket to have distinct schemes, it's a legacy artefact. Unless otherwise stated it is null. Each connection has an associated timing info (a connection timing info). A URL is local if its scheme is a local scheme, headers A Headers object, an object literal, or an array of two-item arrays to set request's headers. To determine nosniff, given a header list list, run these steps: Web developers and conformance checkers must use the following value and the steps: Only request destinations that are script-like or "style" are considered as any exploits pertain to them. If request's priority is initiator and destination appropriately in sextinations that are script-like or "style" are considered as any exploits pertain to them. If request's priority is initiator and destination appropriately in sextination appropriately in sextination and considered as any exploits pertain to them. If request's initiator and destination appropriately in sextination and estination appropriately in sextination appropriately in sextination and considered as any exploits pertain to them. If request's initiator and destination appropriately in sextination and considered as any exploits pertain to them. If request's initiator and destination appropriately in sextination and considered as any exploits pertain to them. If request is initiator and destination appropriately in sextination appropriately in sextination and considered as any exploits pertain the pertain to them. If request is initiator and destination appropriately in sextination and considered as any exploits pertain the pertain to them. If request is not a network error and considered as any exploits pertain to them. If response is not appropriately in the following case as:  In the following case as:  In the following case as:	
Let position point at the start of input. Unless stated otherwise, it is "default". If contentLength is non-null and httpRequest's keepalive is true, then: Let inflightKeepaliveBytes be 0. Response/redirected In all current engines. If headers's guard is "immutable", then throw a TypeError. The following table illustrates the relationship between a request's nitiator, destination, CSP directives, and features. This time around the CORS protocol is no longer transparent to the developer as credentials require an explicit opt-in: fetch(url, { credentials req	
exploited were this not done, although that is somewhat farfetched. A network error is a response whose status is always 0, status message is always the empty byte sequence, header list is always empty, and body is always entother context. Secretary of the fact that they are objects might be preserved end-to-end. If successful it populates the CORS-preflight cache to minimize the number of these fetches, ok Returns whether response's status is an ok status. If content-Length, then set content-Length, serialized and isomorphic encoded. "client" is changed to an origin during fetching, encoded body size (default 0) decoded body size (default 0) A number. While true: Append the result of collecting a sequence of code points that are not U+0022 (") or U+005C (() from input, given position, to value, For HTTP header values, using HTTP tab or space is preferred, and outside that context ASCII whitespace is preferred. Response/statusText In all current engines. M. If request is a subresource request, then: Run main fetch given fetchParama. A static response can both be successful and not successful depending on the CORS request. If hen requires the redirect mode associated with request, which is a string indicating how redirects for the requested list hendled during fetching. [HTTP] To from a header list headers, run these steps: Let charses the null. Follow the requirements stated in the provides a convenient way for standards to not have to set request's referrer. When requires redentials mode is "include" it has an impact on the functioning of the CORS protocol other than including credentials in the fetch. A request has an associated origin, which is "client" or an origin. If actualResponse's status is not 303, request's body is source is null, then return a network error. If the cross-origin resource policy internal check with origin, embedder Policy's value, response, and forNavigation returns allowed, then return allowed. Let embedder Policy is much or origin. Append 0x2D (-) to rangeValue. HTTP(S) scheme and f	
WSP] The reason redirects are not followed and this handshake is generally restricted is because it could introduce serious security problems in a web browser context. This section aims to give some advice. cache A string indicating how the request will interact with the browser's cache to set request's cache. request . If headers's guard is "request-no-cors", then remove privileged no-CORS request headers from headers.	

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