

Content-Type

The HTTP `Content-Type` [representation header](#) is used to indicate the original [media type](#) of a resource before any content encoding is applied.

In responses, the `Content-Type` header informs the client about the media type of the returned data. In requests such as [POST](#) or [PUT](#), the client uses the `Content-Type` header to specify the type of content being sent to the server. If a server implementation or configuration is strict about content type handling, a [415](#) client error response may be returned.

The `Content-Type` header differs from [Content-Encoding](#) in that `Content-Encoding` helps the recipient understand how to decode data to its original form.

Note: This value may be ignored if browsers perform [MIME sniffing](#) (or content sniffing) on responses. To prevent browsers from using MIME sniffing, set the `x-Content-Type-Options` header value to `nosniff`. See [MIME type verification](#) for more details.

Header type	Representation header
Forbidden request header	No
CORS-safelisted response header	Yes
CORS-safelisted request header	Yes*

* Values can't contain a [CORS-unsafe request header byte](#): `"():<>?@[\\{}],` , Delete `0x7F` , and control characters `0x00` to `0x19` except for Tab `0x09` . It also needs to have a media type of its parsed value (ignoring parameters) of either `application/x-www-form-urlencoded` , `multipart/form-data` , OR `text/plain` .

Syntax

```
Content-Type: <media-type>
```

For example:

HTTP



```
Content-Type: text/html; charset=utf-8
```

```
Content-Type: multipart/form-data; boundary=ExampleBoundaryString
```

Directives

<media-type>

The [media type](#) of the resource or data. May contain the following parameters:

- **charset** : Indicates the [character encoding](#) standard used. The value is case insensitive but lowercase is preferred.
- **boundary** : For multipart entities, the **boundary** parameter is required. It is used to demarcate the boundaries of the multiple parts of the message. The value consists of 1 to 70 characters (not ending with white space) known to be robust in the context of different systems (e.g., email gateways). Often, the header boundary is prepended by two dashes in the request body, and the final boundary has two dashes appended at the end.

Examples

Serving assets with correct content type

In the following two example responses, JavaScript and CSS assets are served using `text/javascript` for JavaScript and `text/css` for CSS. The correct content type for these resources helps the browser handle them more securely and with better performance. See [Properly configuring server MIME types](#) for more information.

HTTP



```
HTTP/1.1 200
```

```
content-encoding: br
```

```
content-type: text/javascript; charset=utf-8
```

```
vary: Accept-Encoding
```

```
date: Fri, 21 Jun 2024 14:02:25 GMT
```

```
content-length: 2978
```

```
const videoPlayer=document.getElementById...
```

HTTP



```
HTTP/3 200
server: nginx
date: Wed, 24 Jul 2024 16:53:02 GMT
content-type: text/css
vary: Accept-Encoding
content-encoding: br

.super-container{clear:both;max-width:100%}...
```

Content-Type in multipart forms

In a `POST` request resulting from an HTML form submission, the `Content-Type` of the request is specified by the `enctype` attribute on the `<form>` element.

HTML



```
<form action="/foo" method="post" enctype="multipart/form-data">
  <input type="text" name="description" value="Description input value" />
  <input type="file" name="myFile" />
  <button type="submit">Submit</button>
</form>
```

The request looks something like the following example with some headers omitted for brevity. In the request, a boundary of `ExampleBoundaryString` is used for illustration, but in practice, a browser would create a string more like this `-----`

```
-1003363413119651595289485765 .
```

HTTP



```
POST /foo HTTP/1.1
Content-Length: 68137
Content-Type: multipart/form-data; boundary=ExampleBoundaryString

--ExampleBoundaryString
Content-Disposition: form-data; name="description"

Description input value
--ExampleBoundaryString
Content-Disposition: form-data; name="myFile"; filename="foo.txt"
Content-Type: text/plain

[content of the file foo.txt chosen by the user]
--ExampleBoundaryString--
```

Content-Type in URL-encoded form submission

When forms don't involve file uploads and are using simpler fields, URL-encoded forms may be more convenient where the form data is included in the request body:

HTML

```
<form action="/submit" method="post">
  <label for="comment">Comment:</label>
  <input type="text" id="comment" name="comment" value="Hello!" />
  <button type="submit">Submit</button>
</form>
```

HTTP

```
POST /submit HTTP/1.1
Host: example.com
Content-Type: application/x-www-form-urlencoded
Content-Length: 15

comment=Hello!
```

Content-Type in a REST API using JSON

Many [REST](#) APIs use `application/json` as a content type which is convenient for machine-to-machine communication or programmatic interaction. The following example shows a [201 Created](#) response showing the result of a successful request:

HTTP

```
HTTP/1.1 201 Created
Content-Type: application/json

{
  "message": "New user created",
  "user": {
    "id": 123,
    "firstName": "Paul",
    "lastName": "Klee",
    "email": "p.klee@example.com"
  }
}
```

Specifications

Specification

[HTTP Semantics](#)

[# status.206](#)

Specification

[HTTP Semantics](#)
[# field.content-type](#)

Browser compatibility

[Report problems with this compatibility data](#) • [View data on GitHub](#)

	Desktop					Mobile						
	Chrome	Edge	Firefox	Opera	Safari	Chrome Android	Firefox for Android	Opera Android	Safari on iOS	Samsung Internet	WebView Android	WebView on iOS
Content-Type	✓ 1	✓ 12	✓ 1	✓ 15	✓ 1	✓ 18	✓ 4	✓ 14	✓ 1	✓ 1	✓ 4.4	✓ 1

Tip: you can click/tap on a cell for more information.

✓ Full support

See also

- [Accept](#) , [Accept-Encoding](#) , [Accept-Language](#) headers
- [Vary](#)
- [Content-Encoding](#)
- [Content-Disposition](#)
- [206 Partial Content](#)
- [X-Content-Type-Options](#)

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