SFML

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sf::Http::Response Class Reference

[Network module](http://docs.google.com/group__network.htm)

Define a HTTP response. [More...](http://docs.google.com/classsf_1_1Http_1_1Response.htm#details)

#include <[Http.hpp](http://docs.google.com/Http_8hpp_source.htm)>

| Public Types | |
| --- | --- |
| enum | [Status](http://docs.google.com/classsf_1_1Http_1_1Response.htm#a663e071978e30fbbeb20ed045be874d8) {  [Ok](http://docs.google.com/classsf_1_1Http_1_1Response.htm#a663e071978e30fbbeb20ed045be874d8a0158f932254d3f09647dd1f64bd43832) = 200,  [Created](http://docs.google.com/classsf_1_1Http_1_1Response.htm#a663e071978e30fbbeb20ed045be874d8a0a6e8bafa9365a0ed10b8a9cbfd0649b) = 201,  [Accepted](http://docs.google.com/classsf_1_1Http_1_1Response.htm#a663e071978e30fbbeb20ed045be874d8ad328945457bd2f0d65107ba6b5ccd443) = 202,  [NoContent](http://docs.google.com/classsf_1_1Http_1_1Response.htm#a663e071978e30fbbeb20ed045be874d8aefde9e4abf5682dcd314d63143be42e0) = 204,  [ResetContent](http://docs.google.com/classsf_1_1Http_1_1Response.htm#a663e071978e30fbbeb20ed045be874d8a77327cc2a5e34cc64030b322e61d12a8) = 205,  [PartialContent](http://docs.google.com/classsf_1_1Http_1_1Response.htm#a663e071978e30fbbeb20ed045be874d8a0cfae3ab0469b73dfddc54312a5e6a8a) = 206,  [MultipleChoices](http://docs.google.com/classsf_1_1Http_1_1Response.htm#a663e071978e30fbbeb20ed045be874d8add95cbd8fa27516821f763488557f96b) = 300,  [MovedPermanently](http://docs.google.com/classsf_1_1Http_1_1Response.htm#a663e071978e30fbbeb20ed045be874d8a2f91651db3a09628faf68cbcefa0810a) = 301,  [MovedTemporarily](http://docs.google.com/classsf_1_1Http_1_1Response.htm#a663e071978e30fbbeb20ed045be874d8a05c50d7b17c844e0b909e5802d5f1587) = 302,  [NotModified](http://docs.google.com/classsf_1_1Http_1_1Response.htm#a663e071978e30fbbeb20ed045be874d8a060ebc3af266e6bfe045b89e298e2545) = 304,  [BadRequest](http://docs.google.com/classsf_1_1Http_1_1Response.htm#a663e071978e30fbbeb20ed045be874d8a3f88a714cf5483ee22f9051e5a3c080a) = 400,  [Unauthorized](http://docs.google.com/classsf_1_1Http_1_1Response.htm#a663e071978e30fbbeb20ed045be874d8ab7a79b7bff50fb1902c19eecbb4e2a2d) = 401,  [Forbidden](http://docs.google.com/classsf_1_1Http_1_1Response.htm#a663e071978e30fbbeb20ed045be874d8a64492842e823ebe12a85539b6b454986) = 403,  [NotFound](http://docs.google.com/classsf_1_1Http_1_1Response.htm#a663e071978e30fbbeb20ed045be874d8affca8a8319a62d98bd3ef90ff5cfc030) = 404,  [RangeNotSatisfiable](http://docs.google.com/classsf_1_1Http_1_1Response.htm#a663e071978e30fbbeb20ed045be874d8a12533d00093b190e6d4c0076577e2239) = 407,  [InternalServerError](http://docs.google.com/classsf_1_1Http_1_1Response.htm#a663e071978e30fbbeb20ed045be874d8adae2b2a936414349d55b4ed8c583fed1) = 500,  [NotImplemented](http://docs.google.com/classsf_1_1Http_1_1Response.htm#a663e071978e30fbbeb20ed045be874d8a6920ba06d7e2bcf0b325da23ee95ef68) = 501,  [BadGateway](http://docs.google.com/classsf_1_1Http_1_1Response.htm#a663e071978e30fbbeb20ed045be874d8aad0cbad4cdaf448beb763e86bc1f747c) = 502,  [ServiceNotAvailable](http://docs.google.com/classsf_1_1Http_1_1Response.htm#a663e071978e30fbbeb20ed045be874d8ac4fffba9d5ad4c14171a1bbe4f6adf87) = 503,  [GatewayTimeout](http://docs.google.com/classsf_1_1Http_1_1Response.htm#a663e071978e30fbbeb20ed045be874d8a215935d823ab44694709a184a71353b0) = 504,  [VersionNotSupported](http://docs.google.com/classsf_1_1Http_1_1Response.htm#a663e071978e30fbbeb20ed045be874d8aeb32a1a087d5fcf1a42663eb40c3c305) = 505,  [InvalidResponse](http://docs.google.com/classsf_1_1Http_1_1Response.htm#a663e071978e30fbbeb20ed045be874d8a0af0090420e60bf54da4860749345c95) = 1000,  [ConnectionFailed](http://docs.google.com/classsf_1_1Http_1_1Response.htm#a663e071978e30fbbeb20ed045be874d8a7f307376f13bdc06b24fc274ecd2aa60) = 1001  } |
|  | Enumerate all the valid status codes for a response. [More...](http://docs.google.com/classsf_1_1Http_1_1Response.htm#a663e071978e30fbbeb20ed045be874d8) |
|  | |

| Public Member Functions | |
| --- | --- |
|  | [Response](http://docs.google.com/classsf_1_1Http_1_1Response.htm#a2e51c89356fe6a007c448a841a9ec08c) () |
|  | Default constructor. |
|  | |
| const std::string & | [getField](http://docs.google.com/classsf_1_1Http_1_1Response.htm#a25d7cf86538a1045d31e0b601090b8f0) (const std::string &field) const |
|  | Get the value of a field. |
|  | |
| [Status](http://docs.google.com/classsf_1_1Http_1_1Response.htm#a663e071978e30fbbeb20ed045be874d8) | [getStatus](http://docs.google.com/classsf_1_1Http_1_1Response.htm#a542e9856b1dd260a83940eb982b7f19a) () const |
|  | Get the response status code. |
|  | |
| unsigned int | [getMajorHttpVersion](http://docs.google.com/classsf_1_1Http_1_1Response.htm#a3da9c689318b945dd12cbe7167161dc6) () const |
|  | Get the major HTTP version number of the response. |
|  | |
| unsigned int | [getMinorHttpVersion](http://docs.google.com/classsf_1_1Http_1_1Response.htm#a1c2217a6a848695875380a70d060b239) () const |
|  | Get the minor HTTP version number of the response. |
|  | |
| const std::string & | [getBody](http://docs.google.com/classsf_1_1Http_1_1Response.htm#a6b74ef73051a16ebb20041495c758e22) () const |
|  | Get the body of the response. |
|  | |

| Friends | |
| --- | --- |
| class | **Http** |
|  | |

## Detailed Description

Define a HTTP response.

Definition at line [191](http://docs.google.com/Http_8hpp_source.htm#l00191) of file [Http.hpp](http://docs.google.com/Http_8hpp_source.htm).

## Member Enumeration Documentation

| enum [sf::Http::Response::Status](http://docs.google.com/classsf_1_1Http_1_1Response.htm#a663e071978e30fbbeb20ed045be874d8) |
| --- |

Enumerate all the valid status codes for a response.

**Enumerator:**

| *Ok* | Most common code returned when operation was successful. |
| --- | --- |
| *Created* | The resource has successfully been created. |
| *Accepted* | The request has been accepted, but will be processed later by the server. |
| *NoContent* | The server didn't send any data in return. |
| *ResetContent* | The server informs the client that it should clear the view (form) that caused the request to be sent. |
| *PartialContent* | The server has sent a part of the resource, as a response to a partial GET request. |
| *MultipleChoices* | The requested page can be accessed from several locations. |
| *MovedPermanently* | The requested page has permanently moved to a new location. |
| *MovedTemporarily* | The requested page has temporarily moved to a new location. |
| *NotModified* | For conditionnal requests, means the requested page hasn't changed and doesn't need to be refreshed. |
| *BadRequest* | The server couldn't understand the request (syntax error) |
| *Unauthorized* | The requested page needs an authentification to be accessed. |
| *Forbidden* | The requested page cannot be accessed at all, even with authentification. |
| *NotFound* | The requested page doesn't exist. |
| *RangeNotSatisfiable* | The server can't satisfy the partial GET request (with a "Range" header field) |
| *InternalServerError* | The server encountered an unexpected error. |
| *NotImplemented* | The server doesn't implement a requested feature. |
| *BadGateway* | The gateway server has received an error from the source server. |
| *ServiceNotAvailable* | The server is temporarily unavailable (overloaded, in maintenance, ...) |
| *GatewayTimeout* | The gateway server couldn't receive a response from the source server. |
| *VersionNotSupported* | The server doesn't support the requested HTTP version. |
| *InvalidResponse* | [Response](http://docs.google.com/classsf_1_1Http_1_1Response.htm) is not a valid HTTP one. |
| *ConnectionFailed* | Connection with server failed. |

Definition at line [199](http://docs.google.com/Http_8hpp_source.htm#l00199) of file [Http.hpp](http://docs.google.com/Http_8hpp_source.htm).

## Constructor & Destructor Documentation

| sf::Http::Response::Response | ( |  | ) |  |
| --- | --- | --- | --- | --- |

Default constructor.

Constructs an empty response.

## Member Function Documentation

| const std::string& sf::Http::Response::getBody | ( |  | ) | const |
| --- | --- | --- | --- | --- |

Get the body of the response.

The body of a response may contain:

* the requested page (for GET requests)
* a response from the server (for POST requests)
* nothing (for HEAD requests)
* an error message (in case of an error)

ReturnsThe response body

| const std::string& sf::Http::Response::getField | ( | const std::string & | *field* | ) | const |
| --- | --- | --- | --- | --- | --- |

Get the value of a field.

If the field *field* is not found in the response header, the empty string is returned. This function uses case-insensitive comparisons.

Parameters

| field | Name of the field to get |
| --- | --- |

ReturnsValue of the field, or empty string if not found

| unsigned int sf::Http::Response::getMajorHttpVersion | ( |  | ) | const |
| --- | --- | --- | --- | --- |

Get the major HTTP version number of the response.

ReturnsMajor HTTP version number See Also[getMinorHttpVersion](http://docs.google.com/classsf_1_1Http_1_1Response.htm#a1c2217a6a848695875380a70d060b239)

| unsigned int sf::Http::Response::getMinorHttpVersion | ( |  | ) | const |
| --- | --- | --- | --- | --- |

Get the minor HTTP version number of the response.

ReturnsMinor HTTP version number See Also[getMajorHttpVersion](http://docs.google.com/classsf_1_1Http_1_1Response.htm#a3da9c689318b945dd12cbe7167161dc6)

| [Status](http://docs.google.com/classsf_1_1Http_1_1Response.htm#a663e071978e30fbbeb20ed045be874d8) sf::Http::Response::getStatus | ( |  | ) | const |
| --- | --- | --- | --- | --- |

Get the response status code.

The status code should be the first thing to be checked after receiving a response, it defines whether it is a success, a failure or anything else (see the Status enumeration).

ReturnsStatus code of the response

The documentation for this class was generated from the following file:

* [Http.hpp](http://docs.google.com/Http_8hpp_source.htm)

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