**HTTP Status Codes**

HTTP status codes are standardized responses web servers provide to indicate the result of a client's request. These status codes are grouped into five classes based on the type of response. Here is a breakdown of each class along with some common status codes:

**1xx: Informational**

These codes indicate that the request has been received and the server is continuing the process.

- 100 Continue: The server has received the request headers, and the client should proceed to send the request body.

- 101 Switching Protocols: The server is switching protocols as requested by the client.

-102 Processing (WebDAV): The server has received and is processing the request, but no response is available.

**2xx: Success**

These codes indicate that the server successfully processed the request.

- 200 OK: The request has succeeded. The meaning of the success depends on the HTTP method (GET, POST, etc.).

- 201 Created: The request has been fulfilled, resulting in the creation of a new resource.

- 202 Accepted: The request has been accepted for processing but has not been completed.

- 204 No Content: The server successfully processed the request, but is not returning any content.

- 205 Reset Content: The server successfully processed the request, but is not returning any content and requires the requester to reset the document view.

**3xx: Redirection**

These codes indicate that the client needs to take further action to complete the request.

- 300 Multiple Choices: There are multiple options that the client may follow.

- 301 Moved Permanently: The requested resource has been permanently moved to a new URI.

- 302 Found: The requested resource is temporarily located at a different URI.

- 304 Not Modified: The resource has not been modified since the last request.

- 307 Temporary Redirect: The request should be repeated with another URI, but future requests should still use the original URI.

**4xx: Client Error**

These codes indicate that there was an error with the request made by the client.

- 400 Bad Request: The server could not understand the request due to invalid syntax.

- 401 Unauthorized: The client must authenticate itself to get the requested response.

- 403 Forbidden: The client does not have access rights to the content.

- 404 Not Found: The server cannot find the requested resource.

- 405 Method Not Allowed: The request method is not supported for the requested resource.

- 409 Conflict: The request could not be processed because of a conflict in the request.

- 429 Too Many Requests: The user has sent too many requests in a given amount of time.

**5xx: Server Error**

These codes indicate that the server failed to fulfill a valid request.

- 500 Internal Server Error: The server encountered a situation it doesn't know how to handle.

- 501 Not Implemented: The server does not support the functionality required to fulfill the request.

- 502 Bad Gateway: The server, while acting as a gateway or proxy, received an invalid response from the upstream server.

- 503 Service Unavailable: The server is not ready to handle the request.

- 504 Gateway Timeout: The server, while acting as a gateway or proxy, did not get a response in time from the upstream server.