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HTTP Methods: GET vs. POST

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The two most used HTTP methods are: GET and POST.

What is HTTP?

The Hypertext Transfer Protocol (HTTP) is designed to enable communications between clients and servers.

HTTP works as a request-response protocol between a client and server.

A web browser may be the client, and an application on a computer that hosts a web site may be the server.

Example: A client (browser) submits an HTTP request to the server; then the server returns a response to the client. The response contains status information about the request and may also contain the requested content.

Two HTTP Request Methods: GET and POST

Two commonly used methods for a request-response between a client and server are: GET and POST.

- GET Requests data from a specified resource
- POST Submits data to be processed to a specified resource

The GET Method

Note that the query string (name/value pairs) is sent in the URL of a GET request:

/test/demo_form.asp?name1=value1&name2=value2

Some other notes on GET requests:

- GET requests can be cached
- GET requests remain in the browser history
- GET requests can be bookmarked
- GET requests should never be used when dealing with sensitive data
- · GFT requests have length restrictions









The POST Method

Note that the query string (name/value pairs) is sent in the HTTP message body of a POST request:

POST /test/demo_form.asp HTTP/1.1

Host: w3schools.com

name1=value1&name2=value2

Some other notes on POST requests:

- POST requests are never cached
- POST requests do not remain in the browser history
- POST requests cannot be bookmarked
- · POST requests have no restrictions on data length

Compare GET vs. POST

The following table compares the two HTTP methods: GET and POST.

GET

POST

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	Visibility	•	Data is not displayed in the URL

Other HTTP Request Methods

The following table lists some other HTTP request methods:

Method	Description	
HEAD	Same as GET but returns only HTTP headers and no document body	
PUT	Uploads a representation of the specified URI	
DELETE	Deletes the specified resource	
OPTIONS	Returns the HTTP methods that the server supports	
CONNECT	Converts the request connection to a transparent TCP/IP tunnel	

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