Difference Between Web page and Website

Web page and Website are relevant but distinct words. A web page **can be considered as a single entity whereas a** website **is a combination of web pages. Web pages are accessed through a browser while in website HTTP, and DNS protocols are used to access it.**

Web pages have the navigational links to connect a web page to another on the website. The content in a website changes according to the web page while a web page contains more specific information.

Comparison Chart

BASIS FOR COMPARISON	WEB PAGE	WEBSITE
Basic	**Web page is a part of website which comprises links to other web pages.**	**Website is a cluster of related web pages addressed to a typical URL.**
Presented by	**Multiple web pages can have the same name if they reside in different documents.**	**By a unique URL.**
Use	**It is a content that is to be displayed on a website.**	**It is a place used to display the content.**
Extension	**The web page URL has an extension.**	**There is no extension used in the URL of a website.**
Address dependency	**Web page address depends on website address.**	**Website address doesn't rely upon web page address.**
Development period	**Requires less time to develop as it is a part of a website.**	**Usually, take more time as compared to a web page.**

Key Differences Between Web page and Website

1. A webpage is an independent part of a website that contains the links to other web pages on the website. On the other hand, a website is a collection of relevant web pages that is addressed to a Uniform Resource Locator.

2. Each website must have a unique URL whereas multiple web pages can have the same name until they reside in different documents.

3. Website is a location used to display the content. In contrast, a webpage is a content that is to be displayed on the website.

4. A web page URL has an extension like html, htm, php, etc. As against, website URL doesn't has any extension.

5. Web page address has an integral part of the domain name in it, and it depends upon a website. On the contrary, a website does not have any relation to web page address.

6. Designing and Development of the webpage takes less time as compared to a website as a website contain a lot of web pages.

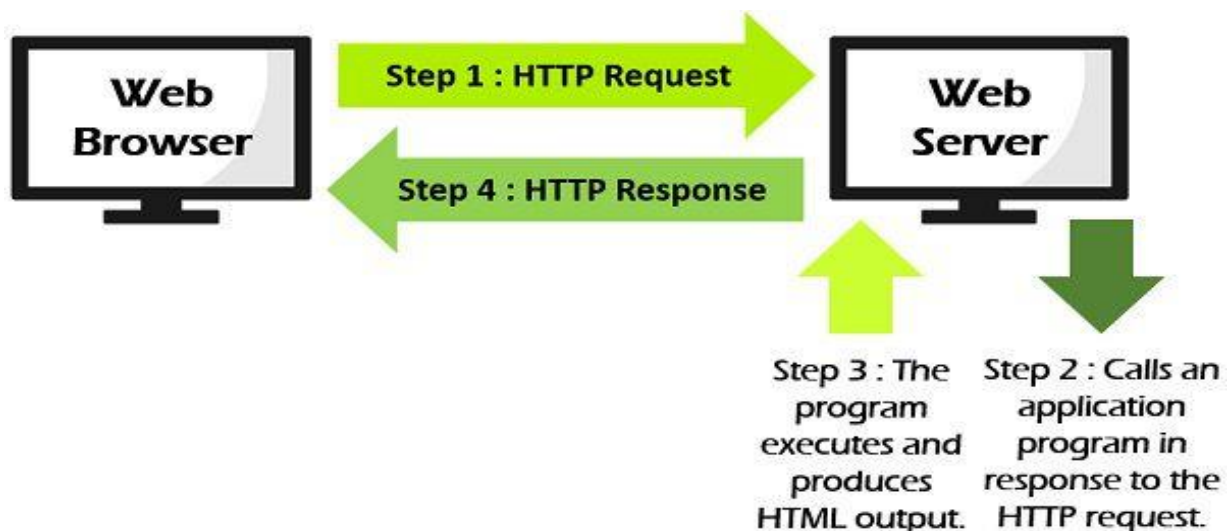# Static Web Pages Vs Dynamic Web Pages

Definition of Static Web Pages

Static web pages are simple and written in the HTML language and stored in web server. Whenever server receives a request regarding a web page, it sends a response along with the requested web page to the client without performing any additional processing. It just locates that page on its hard disk and add HTTP headers, and reply back an HTTP response.

The peculiar thing in a static web page is that the content in these types of the web page does not change depending on the request. They are always the same unless the content is changed physically on the server's hard disk. That is the reason these web pages are known as static web pages.

Dynamic web pages provide a solution for the static web pages. The dynamic web page content can vary depending on the number of parameters. As it is discussed above that dissimilar to static web age, it not just simply send HTML page in response. The web server calls a program located on the hard disk which can access a database, perform transaction procedure, etcetera. If the application program produces HTML output, which is used to construct an HTTP response by the web server. The web server sends the HTTP response thus created, back to the web browser.

Comparison Chart

BASIS FOR COMPARISON	STATIC WEB PAGES	DYNAMIC WEB PAGES
Basic	Static web pages will remain same for the time until and unless someone changes it manually.	Dynamic web pages are behavioral and have the capacity to produce distinctive content for different visitors.
Complexity	Simple to design.	Complicated to construct.
Application and web languages used to create web pages	HTML, JavaScript, CSS, etc.	CGI, AJAX, ASP, ASP.NET, etc.
Information change	Occurs rarely	Frequently
Page loading time	Less comparatively	More
Use of Database	Doesn't use databases	A database is used.

Key Differences Between Static and Dynamic Web Pages

1. Static web pages are difficult to alter because it requires the change to be implemented at each point manually that is the reason its content doesn't change regularly. On the other hand, the structure of dynamic pages is different from static web pages which contain server code and allows the server to generate unique content each time the page is loaded with the same source code.

2. The static web page is simple to construct while dynamic web pages are complex to construct and design.

3. Static web page involves technology such as HTML, JavaScript, CSS, etcetera for its construction. On the contrary, dynamic web pages are created using CGI (Common Gateway Interface) and languages like AJAX, ASP, PERL, PHP, etcetera server-side scripting languages.

4. The static web pages display the same content each time when someone visits it, whereas in dynamic web pages the page content changes according to the user.

5. Basic HTML pages can be loaded quickly by consuming less time, that's why the static web pages load in less time. Conversely, the dynamic web pages take more time while loading.

6. A database is used in at the server end in a dynamic web page. In contrast, there is no database used in a static web page.