

# The Global Scope

### Website vs Web Page

A website can be seen as a collection of web pages linked together using hyperlinks. While a web page is a single document. A bigger website can be broken down into smaller web pages, with every webpage being associated with its HTML, CSS and JS files.

## The Concept Behind Global Scope

#### Example:

- Suppose you load a web page in your browser.
  - 1. The browser creates a window object for it.
  - 2. Then it creates the associated DOM for your HTML document and renders it.
  - 3. This document object is a property of the window object.
  - 4. All the global variables that you create in the JS files attached to the HTML document share a single global scope.
  - 5. All these variables become properties of the window object.
- Now suppose, this web page that you loaded contains a hyperlink to some other web page.
  - When you click on this hyperlink to navigate to a different web page, the browser creates a new instance of the window object and document object.
  - Now all the global variables in the JS files attached to the HTML document of this newly loaded web page share a single global scope, which is different from the global scope of the previously loaded web page.

#### Conclusion

 All global variables in different JS files have a single global scope when all of them are attached to the same HTML file.



- The window object is different for different web pages of a website. It means that the global scope is associated with a single web page.
- If a web page has links to multiple other web pages, then its scope is independent of the JS files linked to those other web pages. Therefore the global scope concerning a web page includes only the javascript files that are directly linked to its HTML document.

