




Intro to Web Development

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What is a website?

- Collection of web pages grouped together
- Documents written in HTML displayed by a browser

Languages

- HTML
- CSS
- Javascript
- PHP
- Python
- Many more!

Basic HTML Structure

Defined using HTML elements or tags

- `<html>`
- `<head>`
- `<body>`
- `<div>`
- ``
- ``
- `<p>`
- `<a>`
- ``
- `<h1>`
- ``
- `<i>`
- `
`
- `<table>`
- `<form>`
- `<script>`
- `<style>`

Basic HTML Structure

Attributes:

- href
- src
- style
- class
- id
- role
- Much more

Basic HTML Structure

- Block-level Elements
 - Begin on new-line
 - Stack on top of each other
 - Nested
 - `<div>`
- In-line Elements
 - Fall into normal flow of document
 - Cannot wrap block-level elements
 - Nested
 - ``

Basic HTML Structure

Before HTML5:

- Used `<div>` tags to build structure

After HTML5:

- Introduction of new structure-based elements
 - `<header>`
 - `<nav>`
 - `<section>`
 - `<footer>`

Basic CSS Syntax

Defined by:

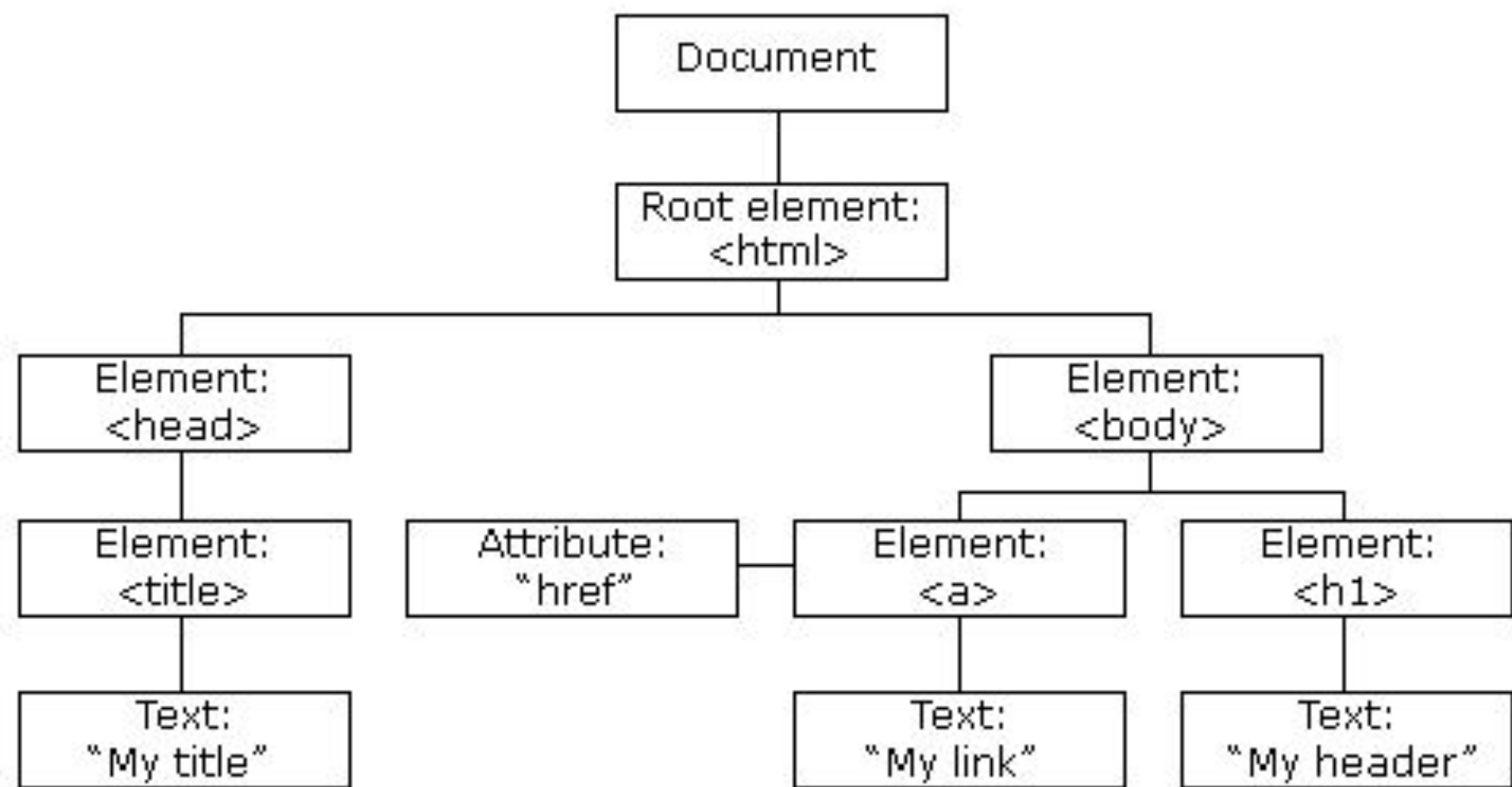
- Element name
 - `<body>` → `body`
- Class
 - `navbar` → `.navbar`
- ID
 - `"main"` → `#main`
- Attribute
 - `hover state link` → `a: hover`
- More

Example:

```
body {  
  font-family: "Open Sans",sans-serif;  
  font-size: 14px;  
  font-style: normal;  
  font-weight: 300;  
  line-height: 24px;  
  position: relative;  
}
```


DOM

- Document Object Model
- Represents the page so that programs can change the document structure, style, and content.
- Object-oriented representation of the page



Accessing the DOM through JavaScript

Important Data Types:

- document
- element
- nodeList
- attribute

Accessing the DOM through JavaScript

Common APIs:

- `document.getElementById()`
- `document.getElementsByTagName()`
- `document.createElement()`
- `parentNode.appendChild()`
- `element.innerHTML`
- `element.setAttribute()`
- `element.getAttribute()`
- `window.onload()`
- `window.scrollTo()`

Ready to code?

