



Developer Student Clubs

Introduction To Javascript



Developer Student Clubs

Indian Institute of Information Technology, Lucknow





Some Goodies await you..





Basics of A Language





What is a Programming Language?





Programming Language

- Computer programming to implement Algorithms.
- Formal Language comprising a set of Instructions.
- A Notation for Writing Programs.
- Most Programming Languages consist of Instructions for computers.
- It is split into Two Components
 1. Syntax
 2. Semantics





Type System

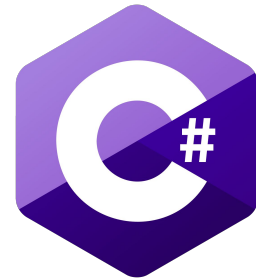
Static Typed Languages

- C++
- Java
- C#



Dynamic Typed Languages

- Python
- Javascript
- PHP





JavaScript





Powers Of JS

With the object model, JavaScript gets all the power it needs to create dynamic HTML:

- JavaScript can change all the HTML elements in the page
- JavaScript can change all the HTML attributes in the page
- JavaScript can change all the CSS styles in the page
- JavaScript can remove existing HTML elements and attributes
- JavaScript can add new HTML elements and attributes
- JavaScript can react to all existing HTML events in the page
- JavaScript can create new HTML events in the page





Live Coding - 1





DOM Manipulation





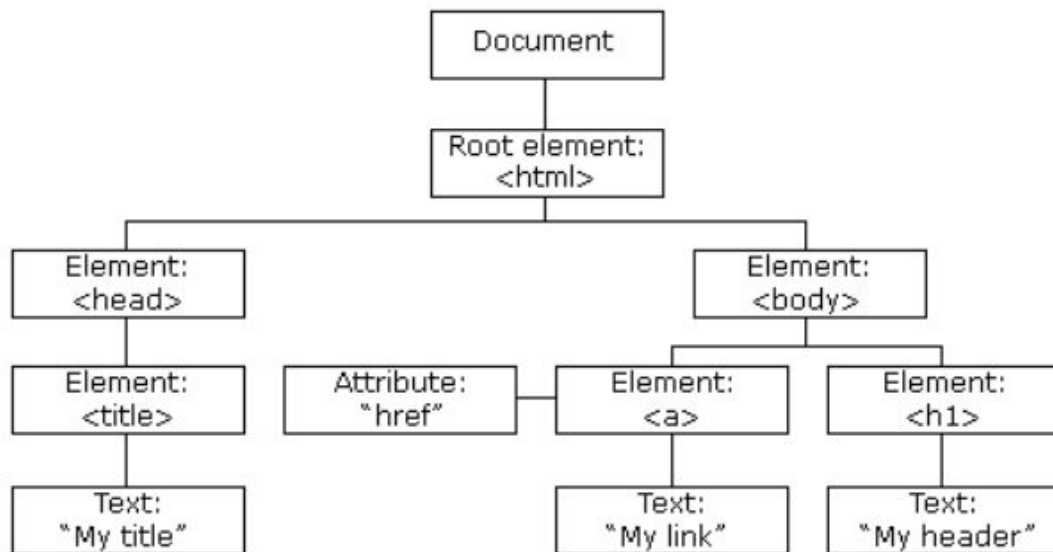
HTML DOM

The HTML DOM is a standard object model and programming interface for HTML. It defines:

- The HTML elements as objects
- The properties of all HTML elements
- The methods to access all HTML elements
- The events for all HTML elements



The HTML DOM Tree of Objects





Live Coding - 2





Resources

- <https://www.w3schools.com>
- https://developer.mozilla.org/en-US/docs/Web/API/Document_Object_Model
- https://www.w3schools.com/js/js_htmldom.asp
- <https://developer.mozilla.org/en-US/docs/Web/CSS/flex>
- <https://developer.mozilla.org/en-US/docs/Web/Events>





Thank You!

Any Doubts?

