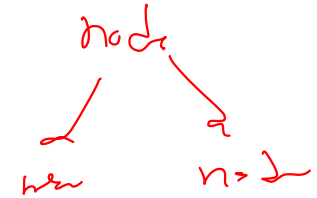


Document Object Model (DOM)

↓
ใช้ javascript เข้ามาจัดการกับ content ของเราได้

What is DOM? → ဒီကနေတုန်းပဲအသေးစားအသေးစား tree



- A programming interface for HTML or XML
- DOM represents the document as nodes and objects
 - Nodes and objects can be created or changed or removed

DOM accessing

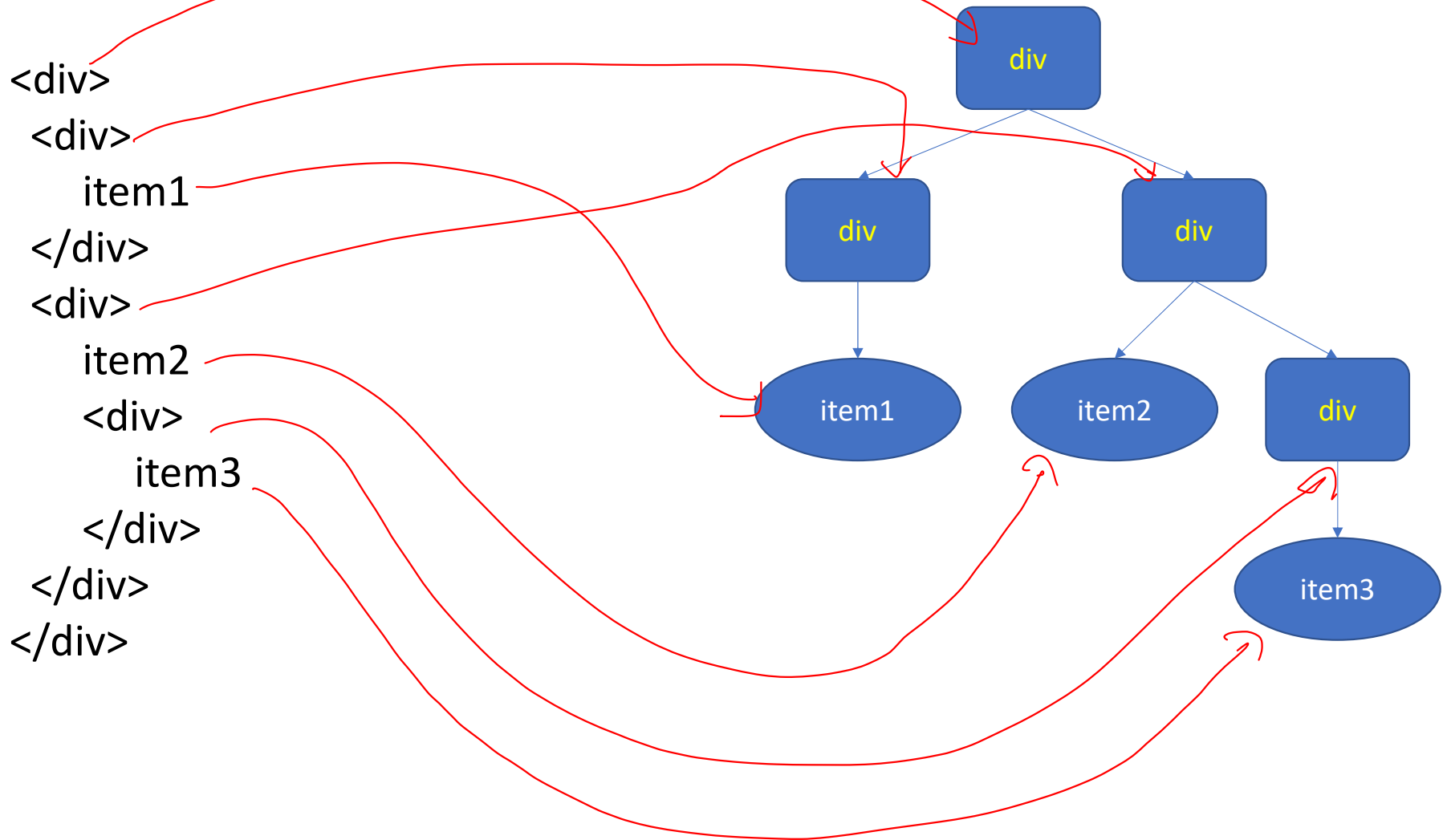
- As of now, every web browser uses DOM as a gateway to the document for scripting language (e.g. JavaScript)

Fundamental Data Types

- Document
 - Node : basic object within document
 - Element : type of node
 - NodeList : Array of elements
 - Attribute : type of node
 - Text
 - Comment
 - etc.
- node = object with method and metadata
- object only

Example

โครงสร้าง doc 60v



Example of Methods of Document Object

- `write("string")`
- `getElementById()`
- `getElementsByName()`
- `getElementsByTagName()`
- `getElementsByClassName()`

The Levels of DOM

- Level 0: Supports an interface DOM and refers to what existed before the standard
- Level 1: allows Navigation of DOM, content manipulation
- Level 2: Support namespace, filtered views and event
- Level 3: has many specifications:
 - Core
 - Load and Save
 - XPath
 - Views and formatting
 - Requirements
 - Validation

(further reading: <https://www.c-sharpcorner.com/UploadFile/79037b/let%E2%80%99s-understand-the-levels-of-dom-document-object-model/>)

Events

- Normally used in combination with functions
- Examples of DOM event:
 - abort: loading of a media is aborted
 - blur: element loses focus
 - change: content of element has changed
 - click: mouse clicks on element
 - focus: element gets focus
 - etc.

(further reading: https://www.w3schools.com/jsref/dom_obj_event.asp)

Navigator Object

- Contains information about the browser
- Examples:
 - appName: name of the browser
 - appVersion: version of the browser
 - cookieEnabled: cookies are enabled or not
 - etc.

(further reading: https://www.w3schools.com/jsref/obj_screen.asp)

Other DOM Objects

- Screen object
- Style object
- Window object

(further reading: https://www.w3schools.com/js/js_htmlDOM.asp)

Reference

- https://developer.mozilla.org/en-US/docs/Web/API/Document_Object_Model/Introduction
- <https://www.geeksforgeeks.org/dom-document-object-model/>
- <https://www.c-sharpcorner.com/UploadFile/79037b/let%E2%80%99s-understand-the-levels-of-dom-document-object-model/>
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