

Document Object Model(DOM)

D --> Document

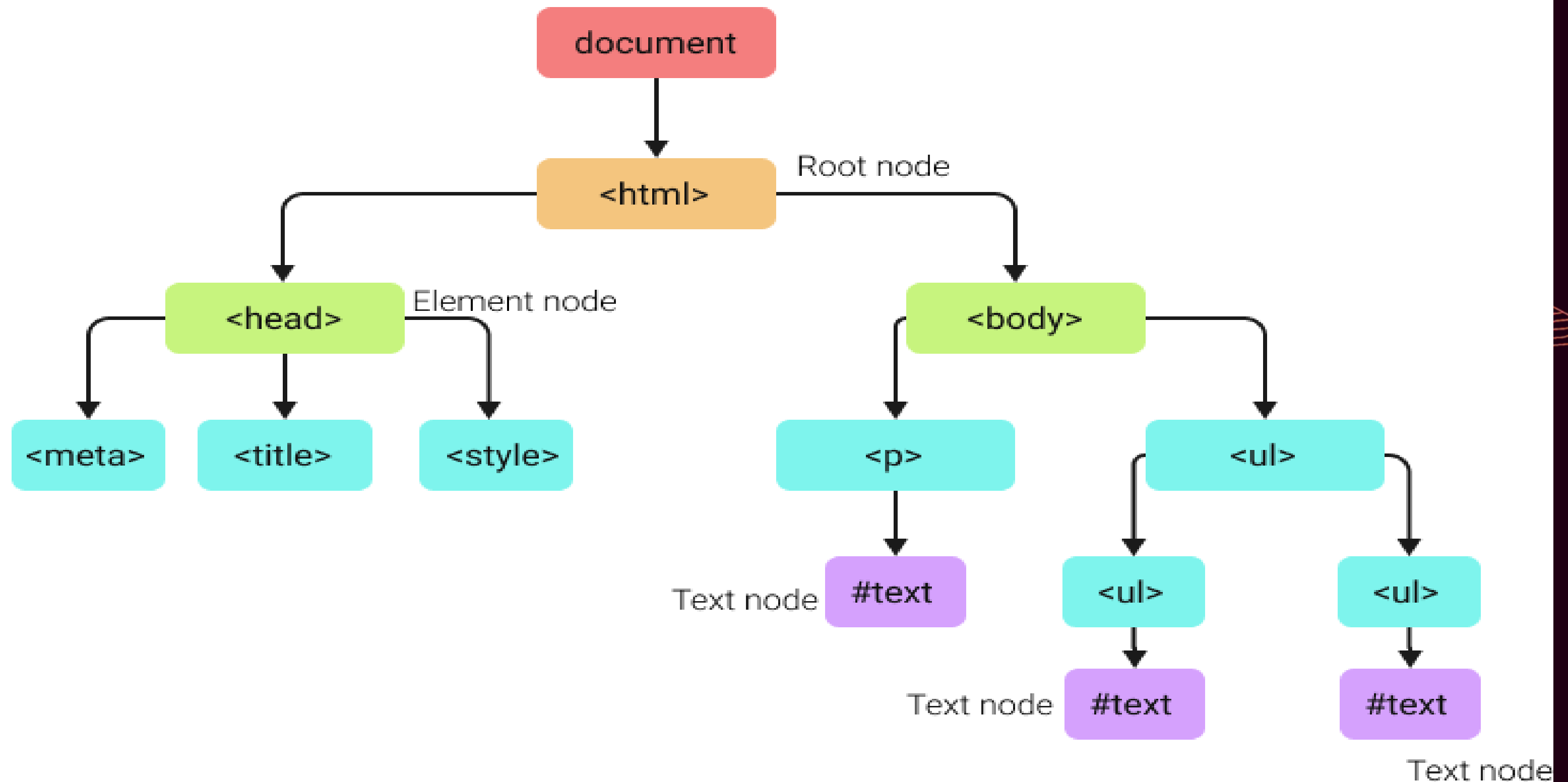
O --> Object

M --> Model



HTML DOM Node Tree (Document Tree)

Node Structure in DOM (Document Object Model)





Interface



What is DOM ?

Dom is a Document Object Model and Programming Interface that defines HTML objects, properties, methods and events to get ,changed ,add or delete HTML Elements

What can do JS with DOM

- 1.change HTML element
- 2.change HTML attributes
- 3.change CSS style
- 4.add HTML elements & attributes
- 5.remove HTML elements & attributes
- 6.react to HTML events

Traversing Dom

- 1) `getElementsByName` method
- 2) `getElementsByClass` method
- 3) `getElementById` method
- 4) `getElementByQuerySelector`,
`querySelectorAll` method

Dynamic style - manipulating CSS with JavaScript

Add and Remove Class Name

Create Element And Append Child

InnerText Vs InnerHtml vs textContext

GetAttribute and setAttribute

Events In JavaScript

The background features a dark red-to-brown gradient. On the left side, there is a series of concentric, wavy orange lines that create a sense of depth and movement, resembling a stylized wave or a series of ripples.

Events In Real Life



Birthday party



Concert

WHAT ARE EVENTS?

HTML events are "things" that happen to HTML elements. When JavaScript is used in HTML pages, JavaScript can "react" on these events.

- 1.The user clicks or hover the cursor over a certain element
- 2.The user Choose a key on the keyboard
- 3.A form is submitted
- 4.A video is played , paused or finishes
- 5.A web page is finished loading
- 6.An error occurs

Common HTML Events ?

- 1.click
- 2.change
- 3.mouseover
- 4.keydown
- 5.onload
- 6.blur

The 2 ways of handling JS Events ?

1.By using an event handler

2.By using an event listener

BONUS

- 1.Event Bubbling
- 2.Event Delegation



Thank you!