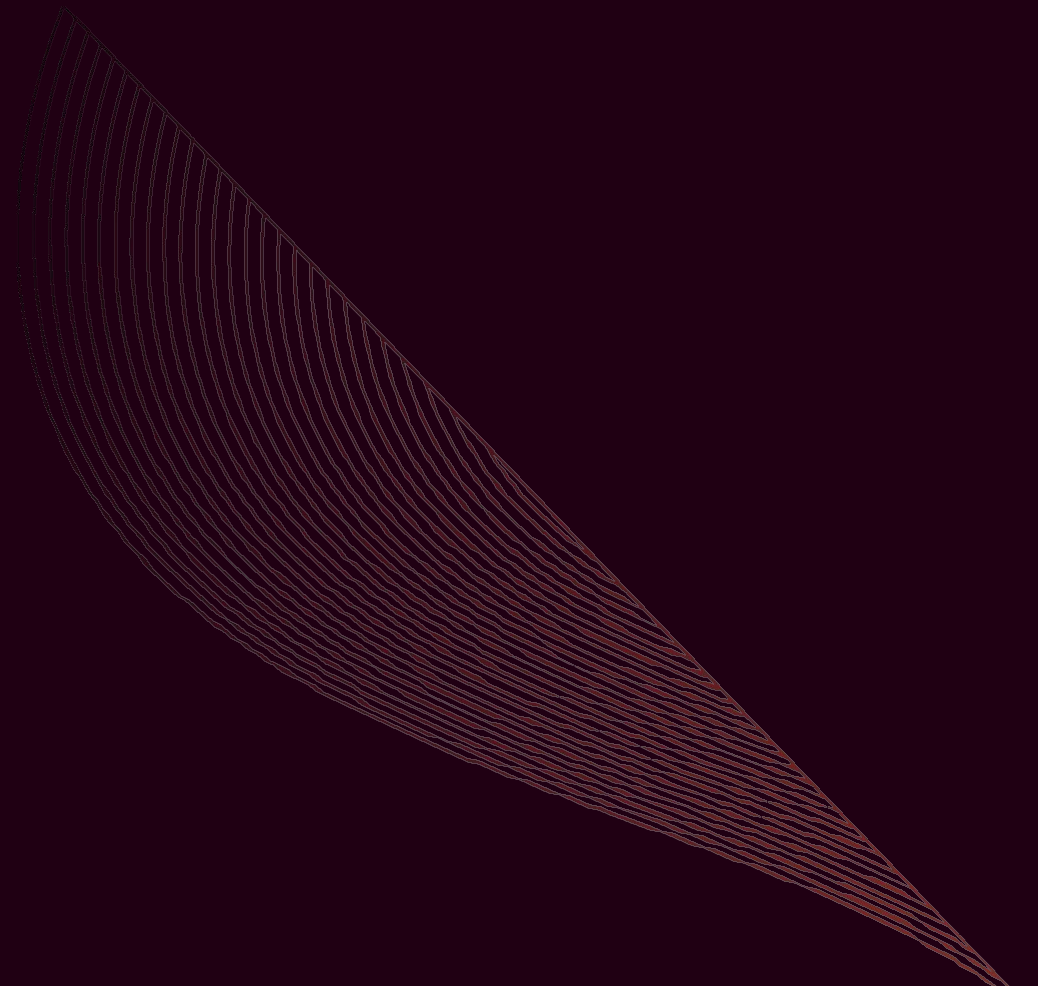


# Document Object Model(DOM)

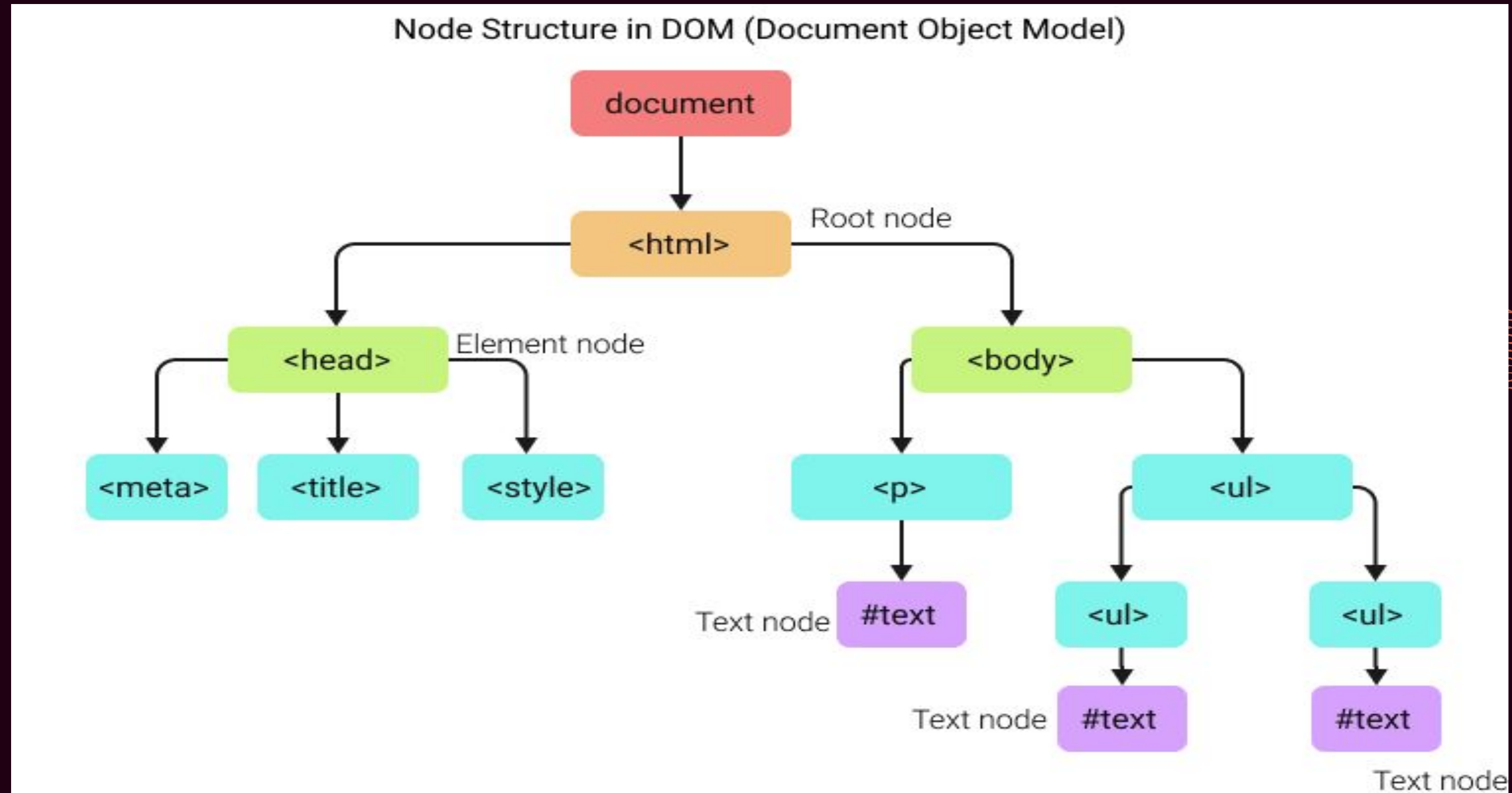
**D --> Document**

**O --> Object**

**M --> Model**



# HTML DOM Node Tree (Document Tree)





# 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

GetAttribute and setAttribute



# Events In JavaScript





# 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!**