

HTML: DOM Tree

In the program

- Trees
- Vocabulary
- Dom Tree

In the program

- **Trees**
- Vocabulary
- Dom Tree

Trees

- Do you think that a tree is:

Trees

- This...



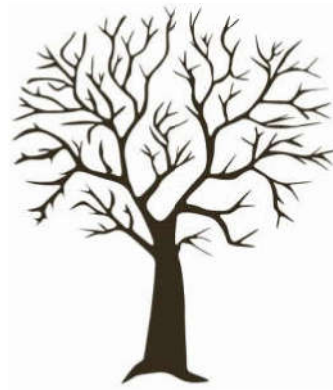
Trees

- Or this...



Trees

- Or this...



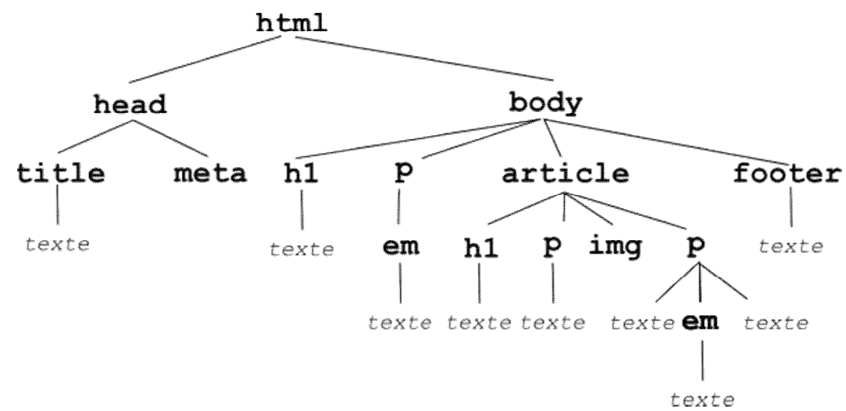
But

Trees

A tree is:

Trees

A tree is:



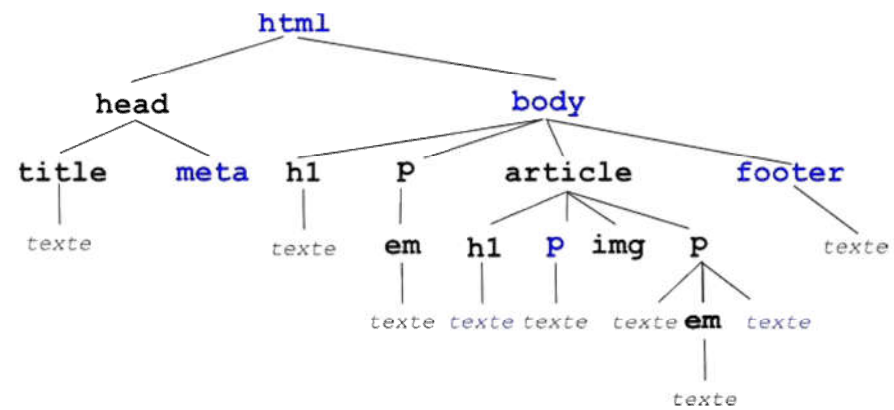
On the program

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Tree vocabulary

Node

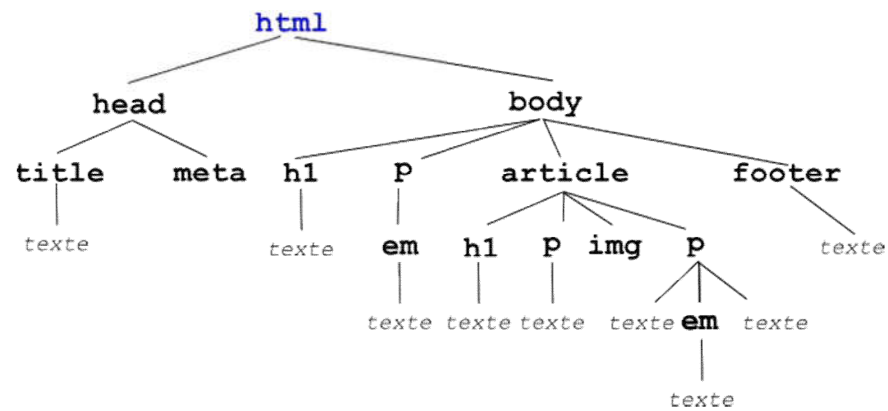
Tree nodes



Tree vocabulary

Root

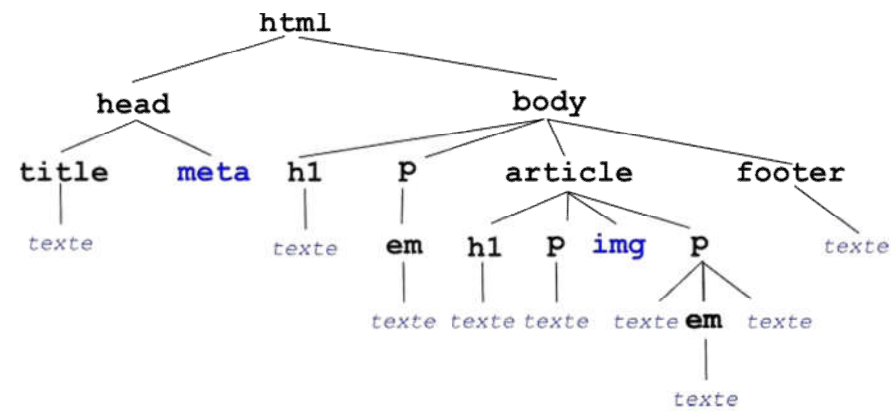
The root node of the tree



Tree vocabulary

Leaf

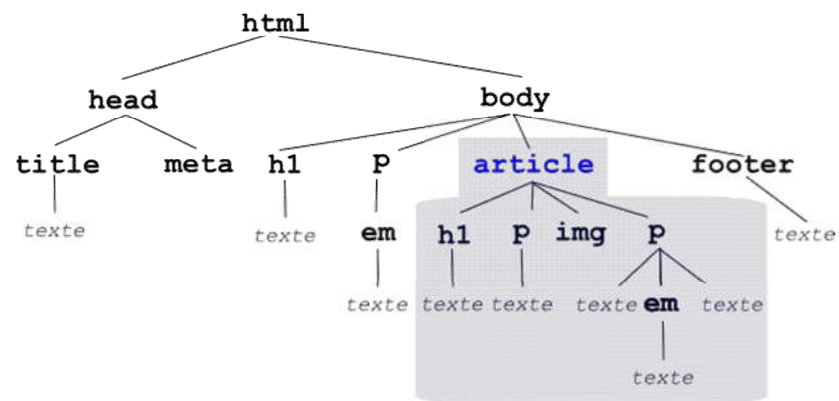
The leaf nodes of the tree



Tree vocabulary

Sub-tree

root sub-tree, the article node

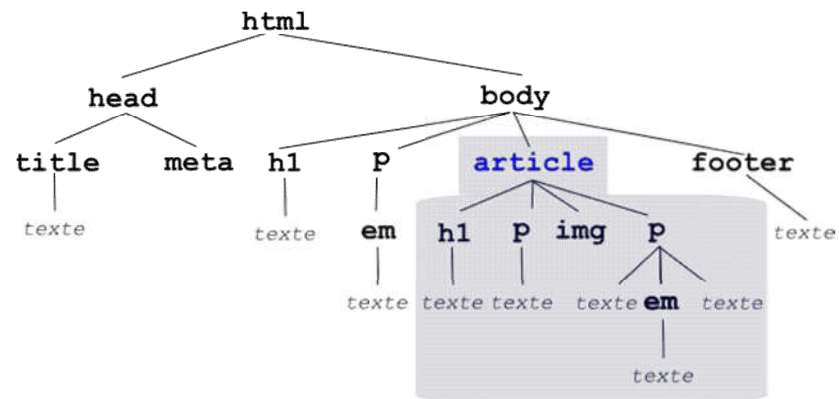


Tree vocabulary

Sub-tree and descendant

root subtree the **article** node.

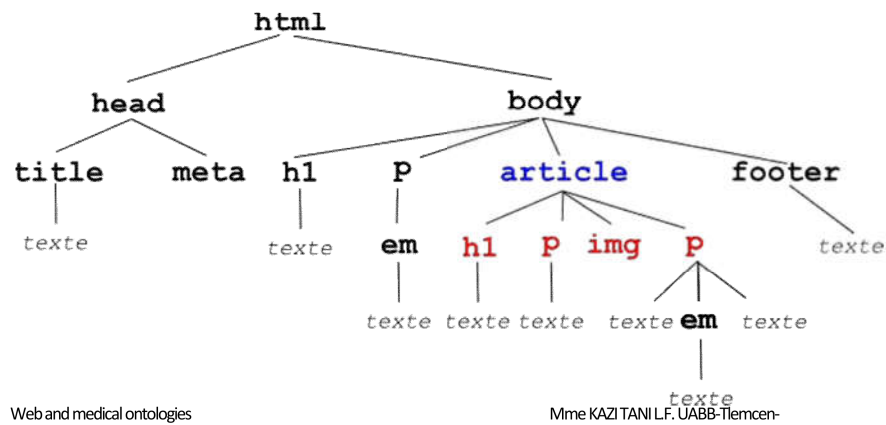
The nodes of the sub-tree are the **descendants** of the **article** node.



Tree vocabulary

Father and son

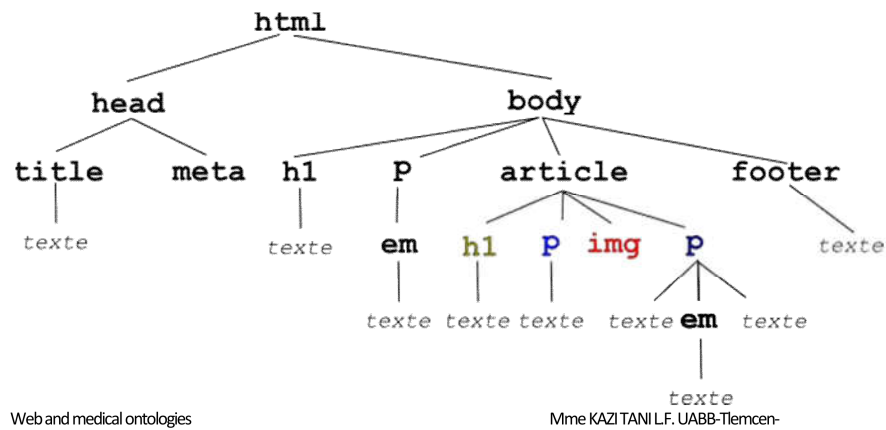
The node **article** is the **father** of nodes **h1**, **p**, **img** and **p**.



Tree vocabulary

Brothers

Nodes **h1**, **p**, **img** and **p** are **brother** nodes.



Web and medical ontologies

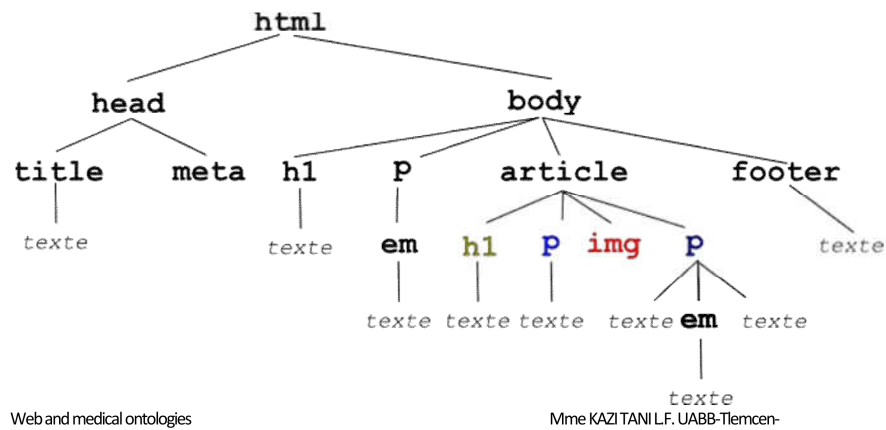
Mme KAZI TANI L.F. UABB-Tlemcen-

Tree vocabulary

Brothers

Nodes **h1**, **p**, **img** and **p** are **brother** nodes.

The **img** node follows the first **p** node preceded by the **h1** node.



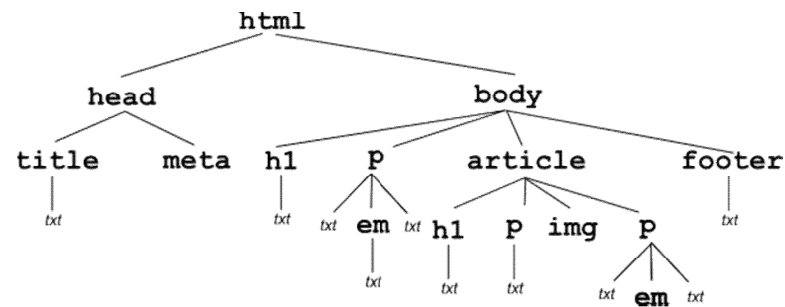
In the program

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Tree structure of an HTML document

DOM Tree

The structure of an html document is represented using a tree. This is known as the **DOM** tree (*Document Object Model*) of the document. The nodes of the tree are the elements.

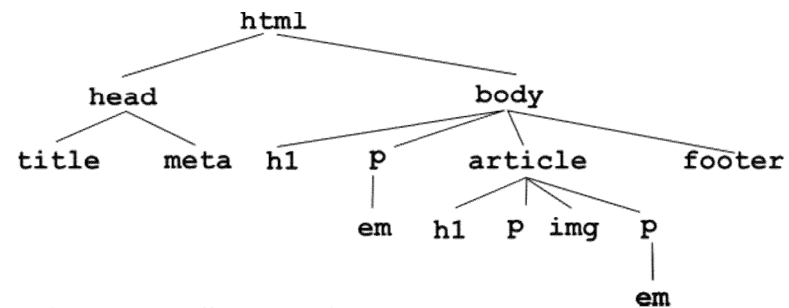


txt nodes are usually ignored.

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- If the `<elt>` element is nested in the `<box>` element, the node `elt` is the child of the `box` node
- The nodes of elements embedded in the same level as brothers. They follow each other "from left to right" according to the order in which they appear in the document.

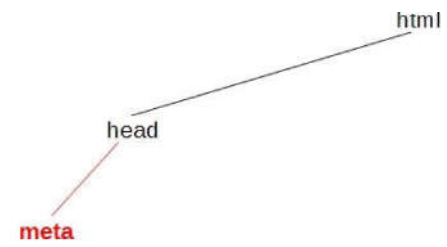
Example

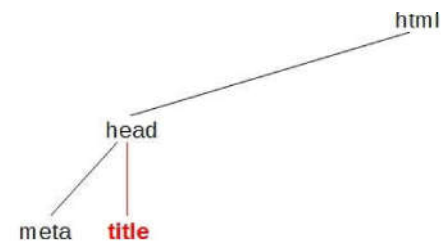
html

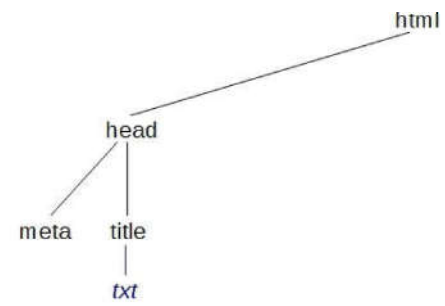
Web and medical ontologies

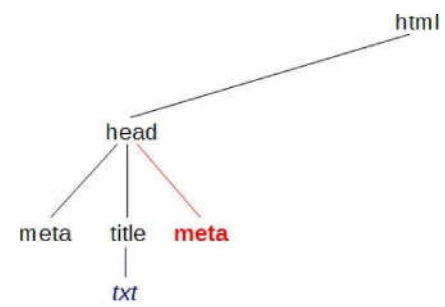
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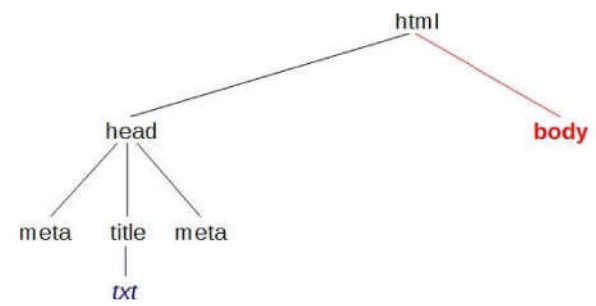


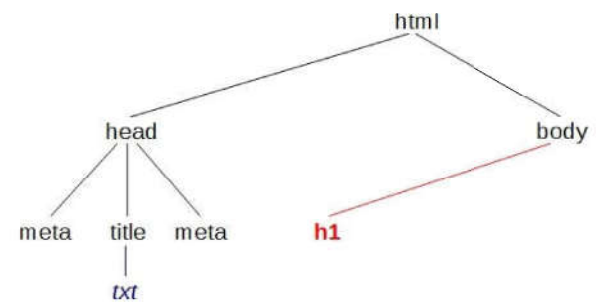


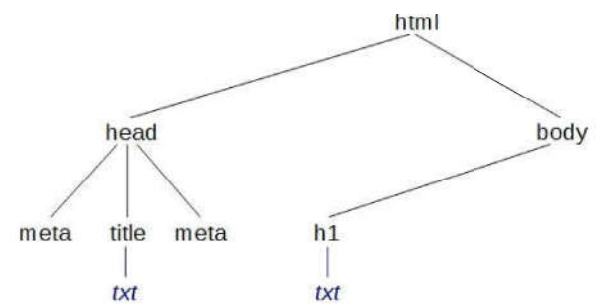


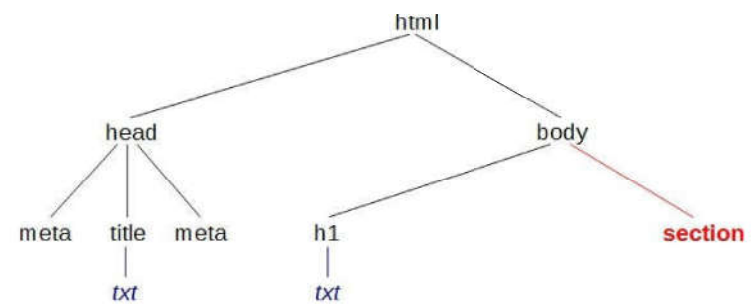


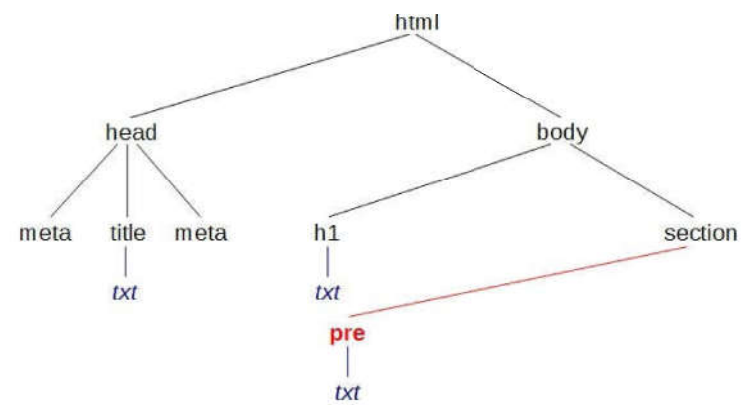


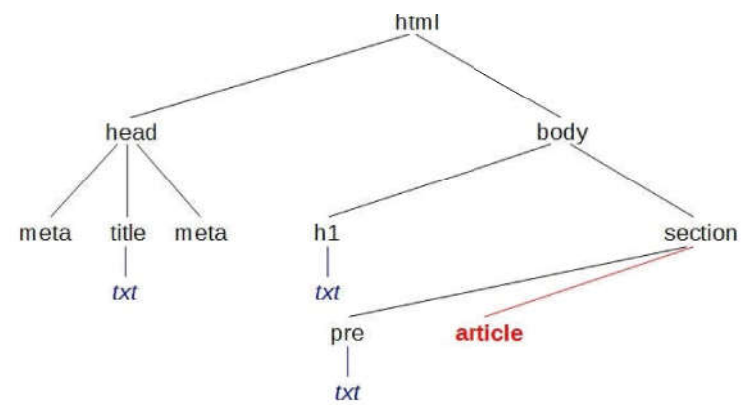


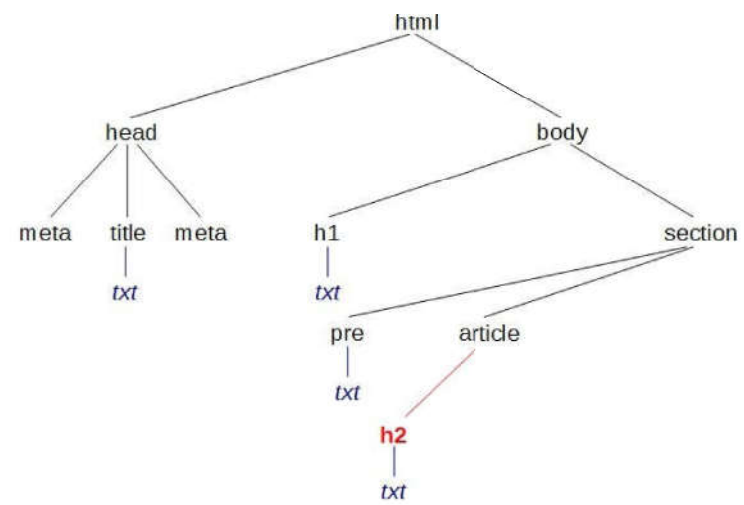


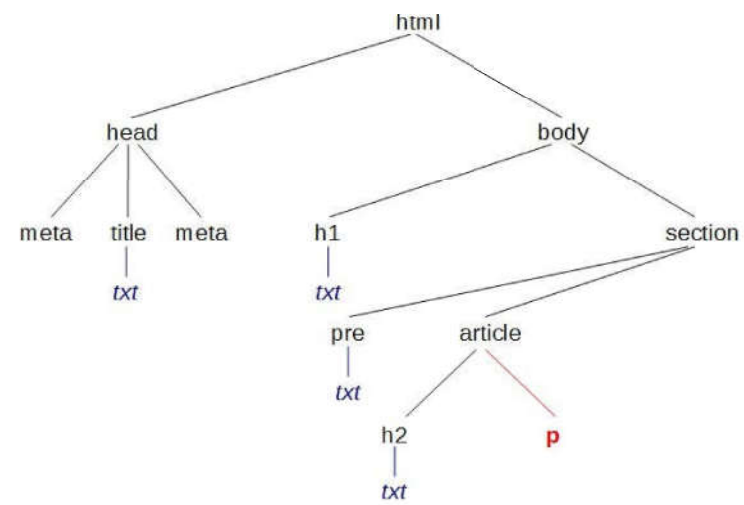


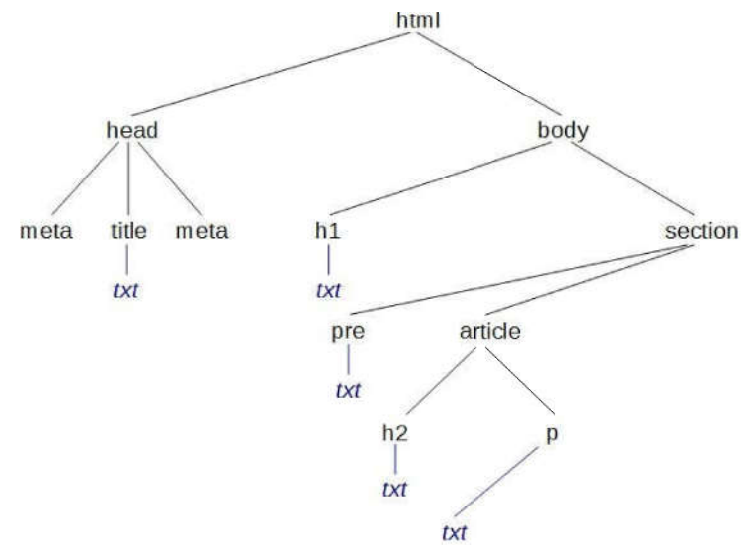


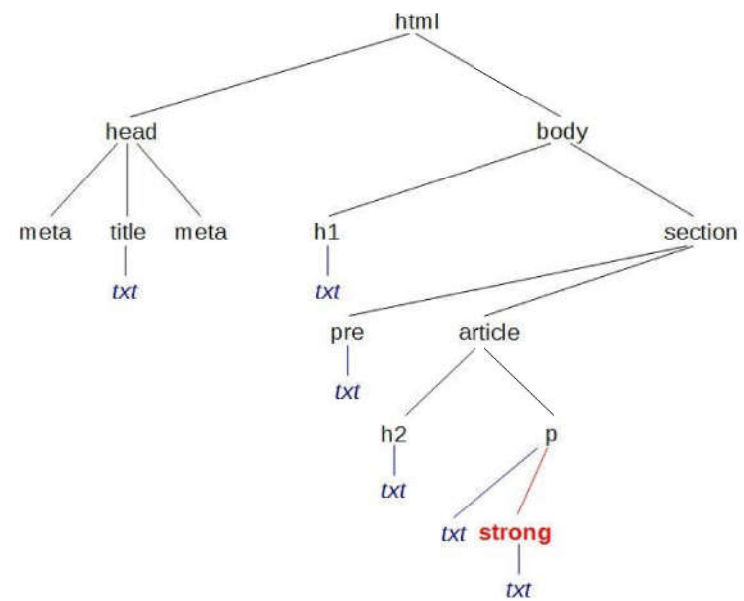


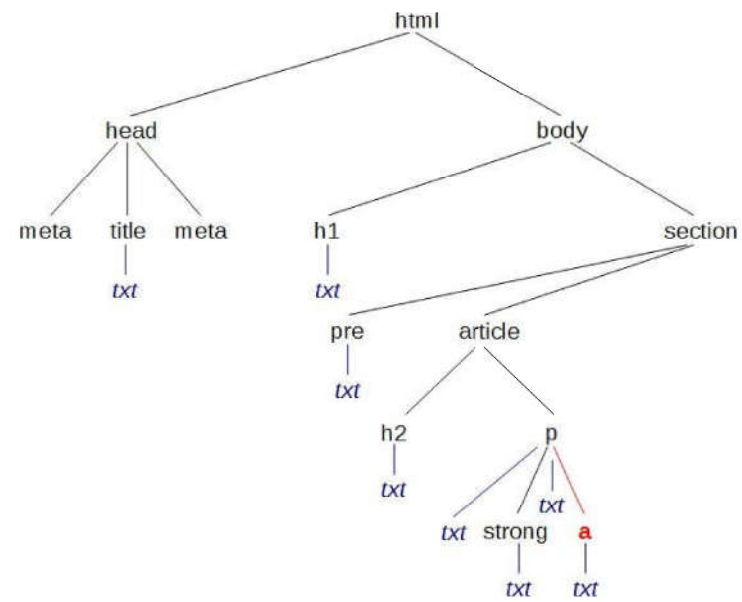


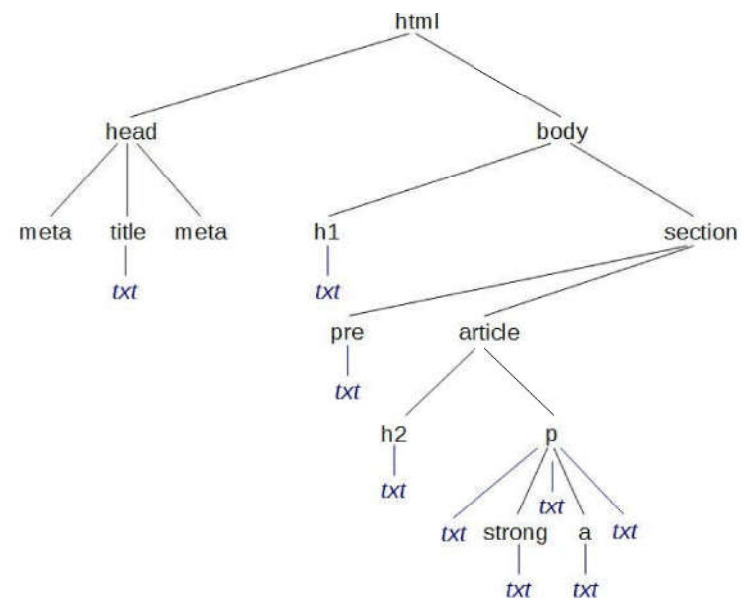


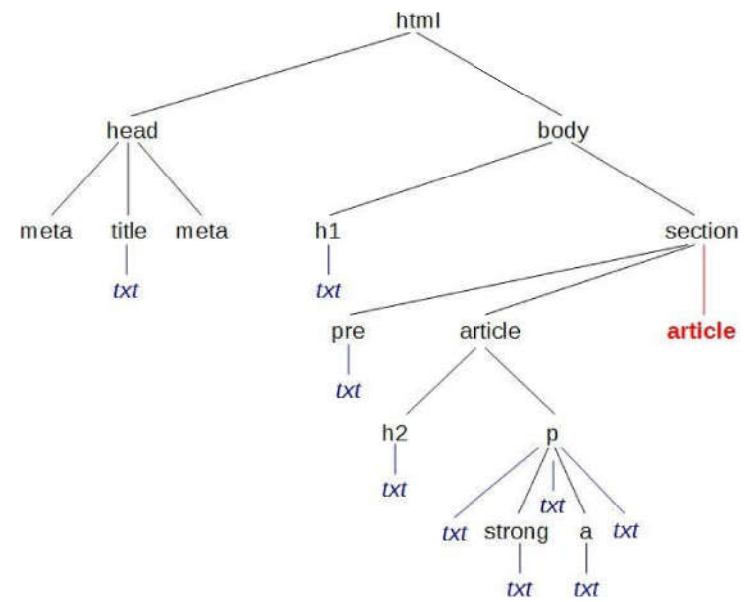


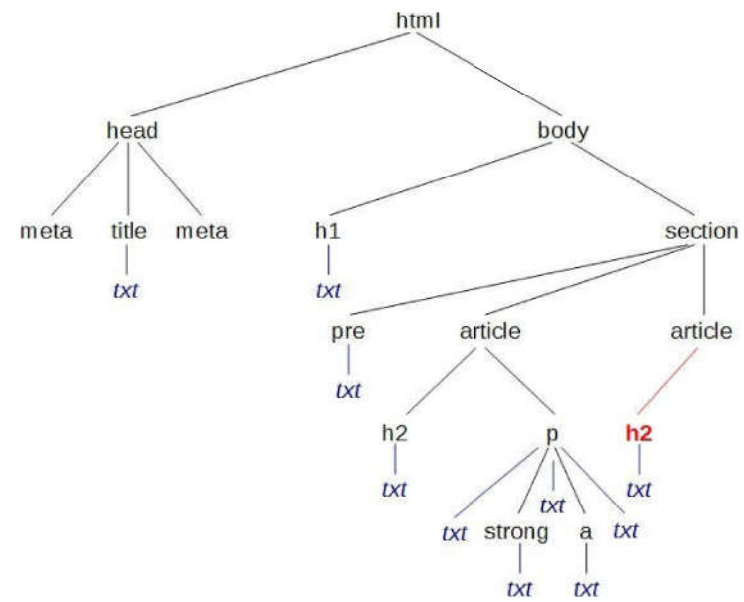


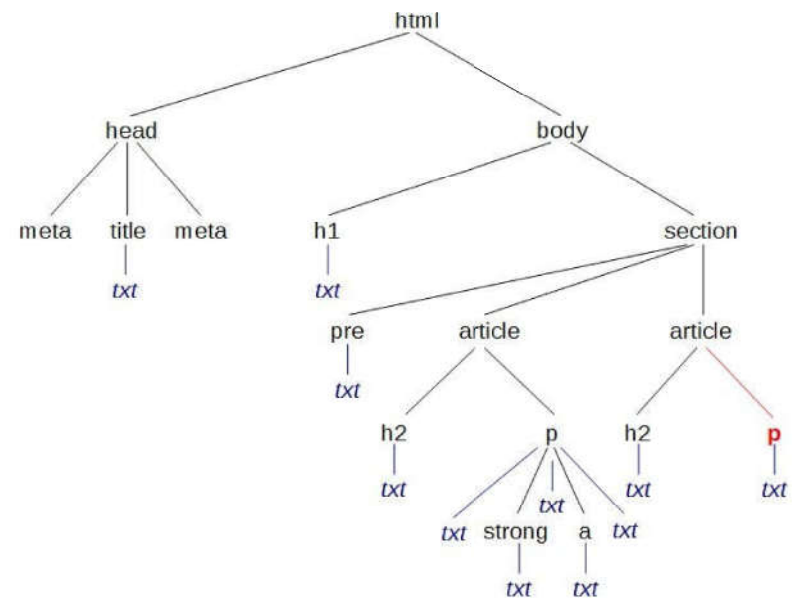


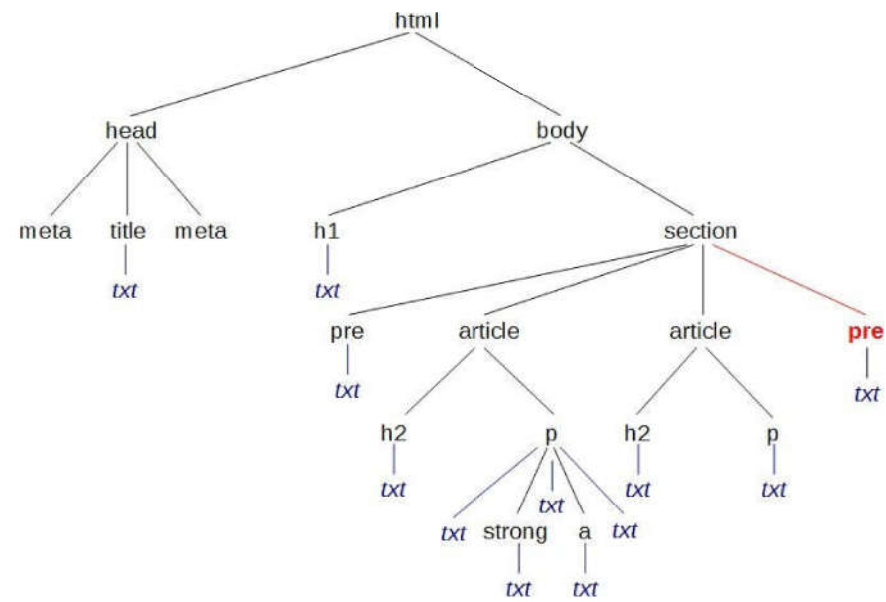


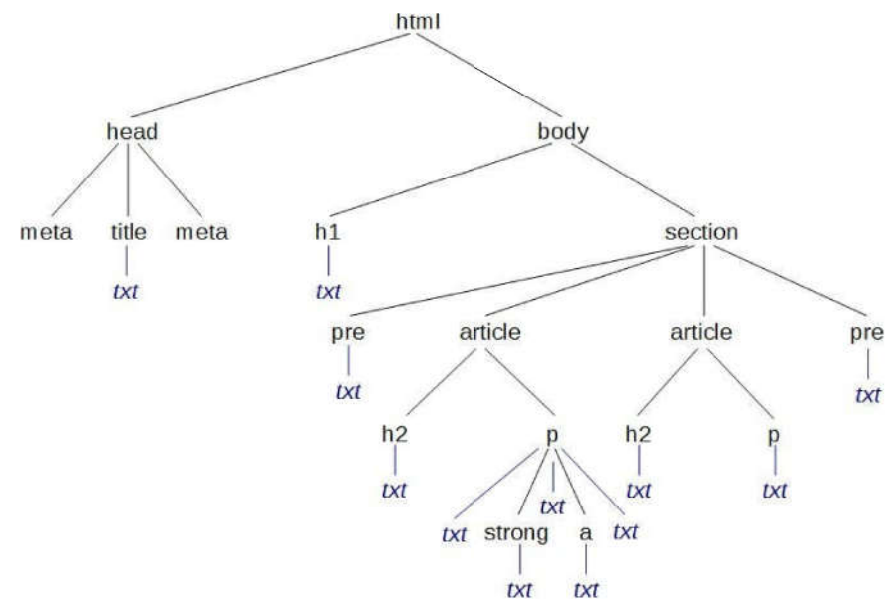


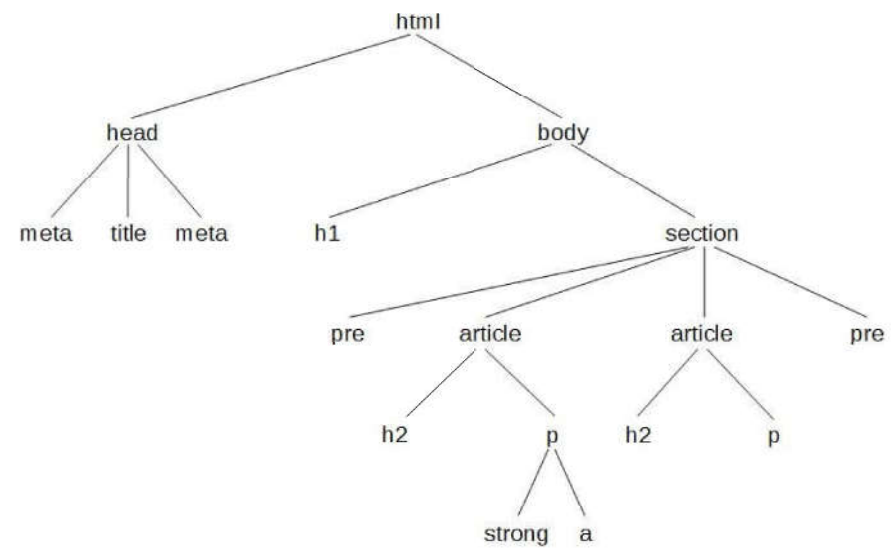












The browser

- continuously interprets the document's DOM tree to display the page
 - each element/node occupies a rectangular area of the page “box”
 - any change to the DOM structure is repercussed
- ⇒ dynamic pages

To be continued...

CSS...