

Assignment 4

HTML

You have to implement a simplified version of the HTML document structure, described in the table below.

Document	- Head	- Title - Style - Script	
	- Body	- Table - P - Link - Form - Img	- any field from Body - any field from Body - any field from Body - any field from Body

The HTML document structure is represented as a hierarchy of node objects of different types that may have child nodes of various types. All the different node types will have a common interface which will allow traversing a document structure in a generic way.

All nodes, from the HTML document structure, will have a ***print*** method, that will print itself - including eventual child nodes (assume that draw is a node specific action; for now just print the nodes tags <tag>...<\tag>).

There is a lot of other functionality that will enhance this document structure. But because we don't want to modify the existing classes, representing the document structure, for each new functionality, we'll have to do it in a way that doesn't affect the existing classes.

For example add a validation functionality that will check if a document structure is a valid one (conforming to the structure defined in the table below), off-course without modifying the existing classes, representing the document structure.