

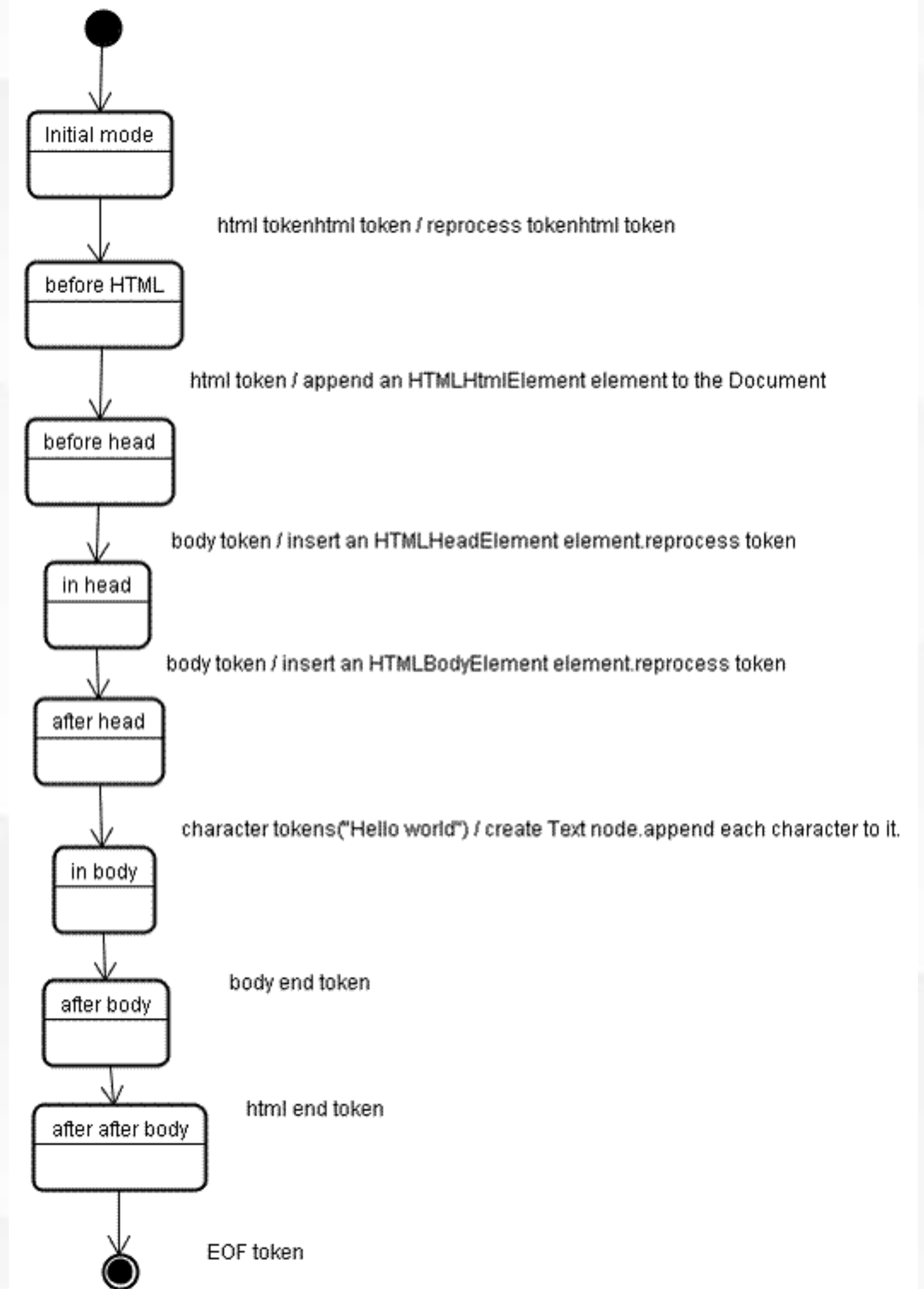
Tree construction

1. Attach to Document object

- When the parser is created the **Document object** is created.
- During the tree construction stage the **DOM tree** with the Document in its root will be modified and elements will be added to it.
- Each node emitted by the tokenizer will be processed by the **tree constructor**. For each token the specification defines which DOM element is relevant to it and will be created for this token. **The element is added to the DOM tree, and also the stack of open elements.**
- This stack is used to correct nesting mismatches and unclosed tags. The algorithm is also described as a state machine. The states are called "insertion modes".

2. Tree construction process for the example input

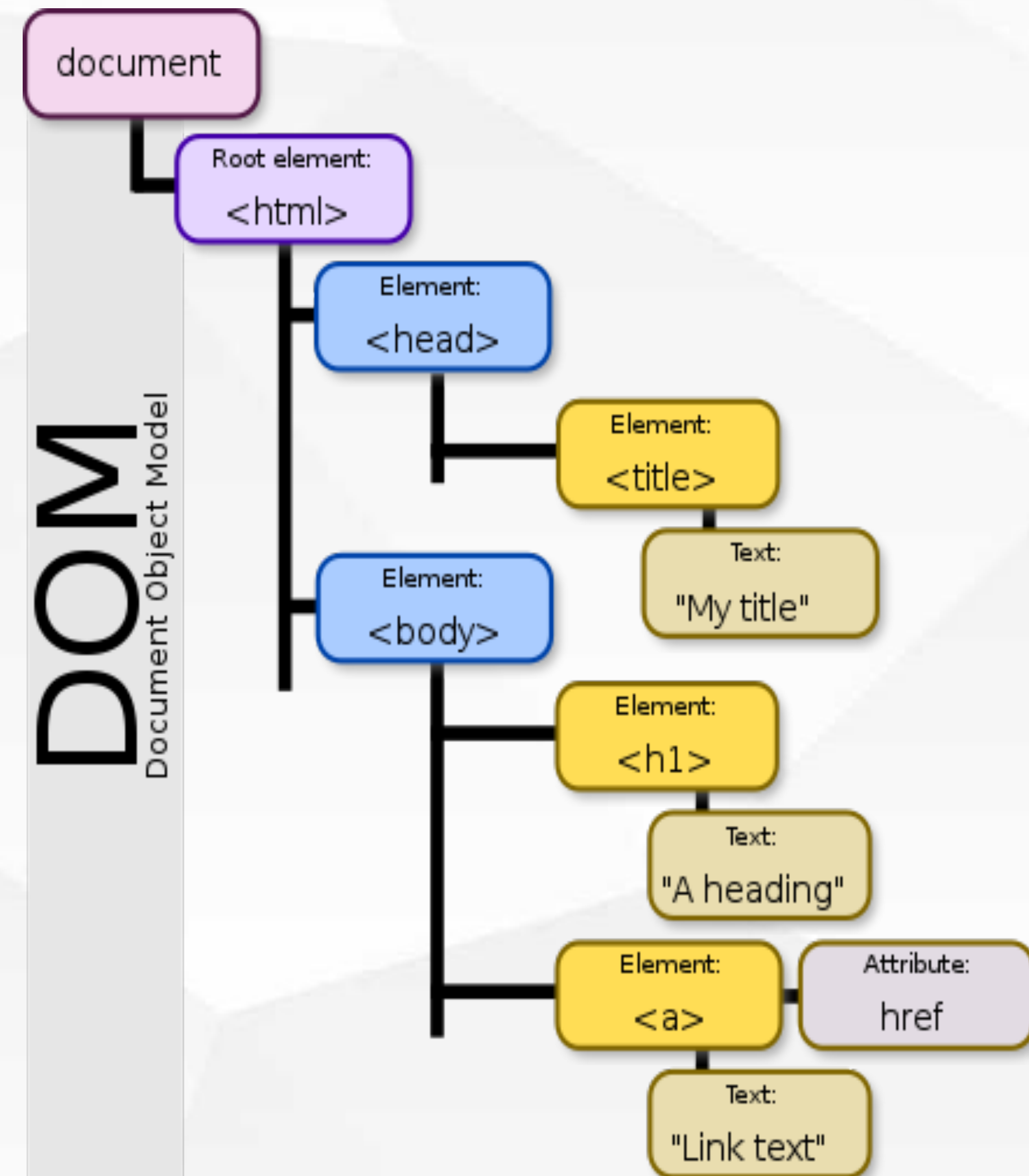
```
<!DOCTYPE html>
<html>
<body>
  Hello world
</body>
</html>
```



Actions when the parsing is finished

1. Actions when the parsing is finished

- At this stage the browser will mark the document as **interactive** and start parsing scripts that are in "deferred" mode: those that should be executed after the document is parsed.
- The document state will be then set to "**complete**" and a "load" event will be fired.



WHAT DOES DOM TREE LOOK LIKE?