

CREATING AND ADDING NODES

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AFTER THIS PRESENTATION

- You'll be able to create different types of nodes
- You'll be able to add nodes to a DOM

WE WILL LOOK AT

Creating a node	<code>createElement()</code> , <code>createTextNode()</code>
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Adding a node	<code>insertBefore()</code> , <code>appendChild()</code>
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ADDING TO THE WEB PAGE

First, create whatever you want to add

- *whatever you create is not yet in the DOM*

Second, add it at the desired place

CREATING NODES

Use `createElement()` e.g.

```
result = document.createElement("div");
```

For text nodes, use `createTextNode()` e.g.

```
result = document.createTextNode("Hello");
```

ADDING NODES - INSERTBEFORE()

For example:

```
newItem = document.createElement("hr");  
  
destParent = document  
    .getElementsByTagName("body")[0];  
destParent.insertBefore(  
    newItem, destParent.firstChild);
```

**Please click on the
page**

Click [here](#) to open the example

body element

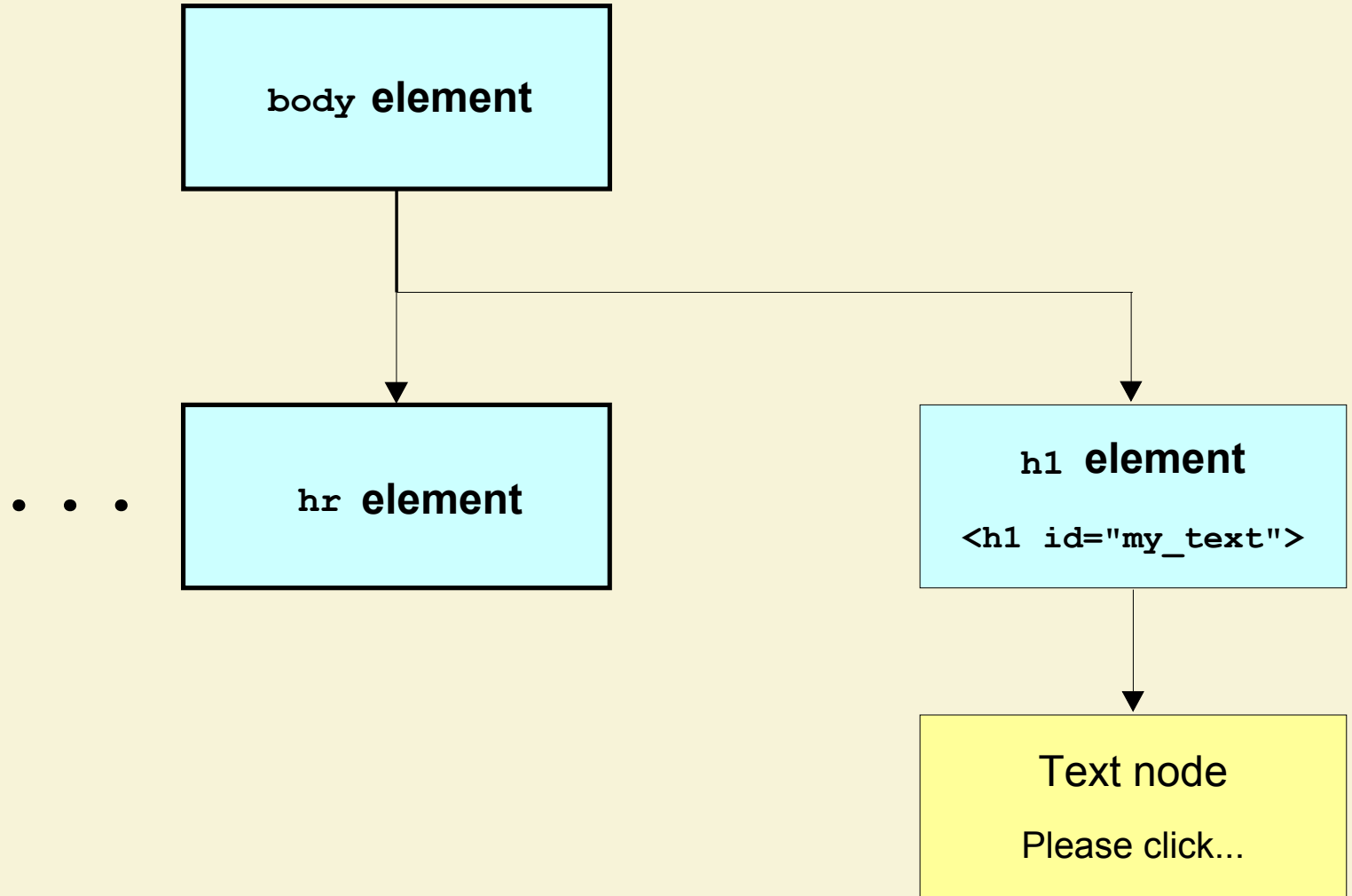
```
graph TD; A[body element] --> B["h1 element<br/><h1 id='my_text'>"]; B --> C["Text node<br/>Please click..."]
```

h1 element

`<h1 id="my_text">`

Text node

Please click...



```
<!DOCTYPE html>
<html>
<head>
<script>
function insert_new_text() {
    var newItem=document.createElement("hr");

    var destParent=document.getElementsByTagName("body")[0];
    destParent.insertBefore(newItem, destParent.firstChild);
}
</script>
</head>
<body onclick="insert_new_text()">
<h1 id="my_text">Please click on the page</h1>
</body>
</html>
```

ADDING NODES - APPENDCHILD()

For example:

```
result=document.createTextNode(  
    "This is dynamically added Text!");  
  
document.getElementById("my_text")  
    .appendChild(result);
```

**Please click on the
page**

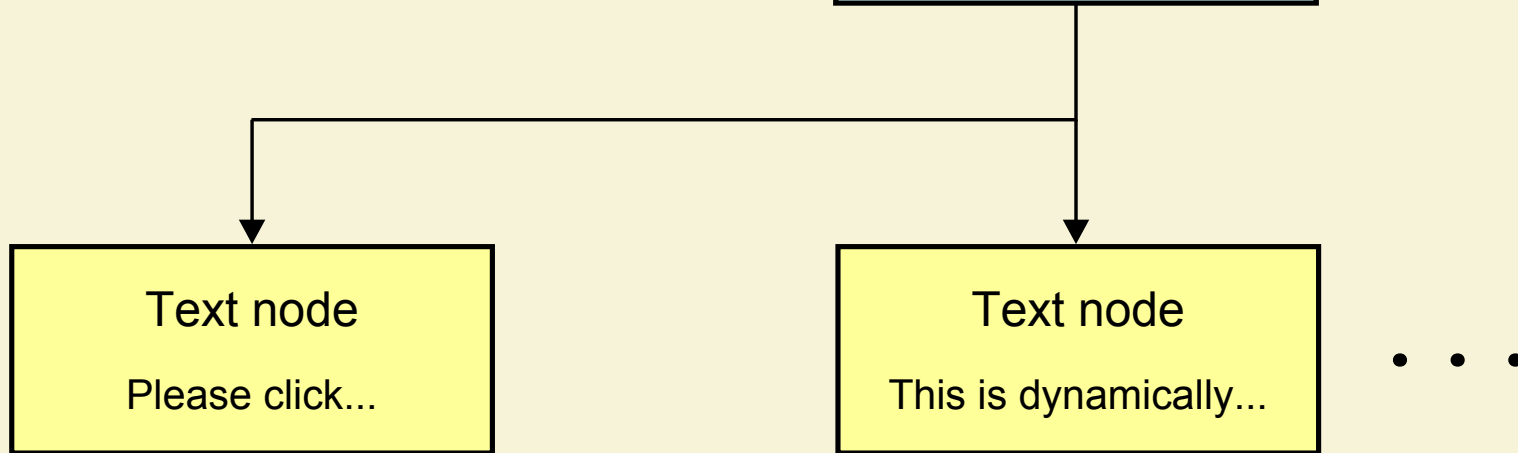
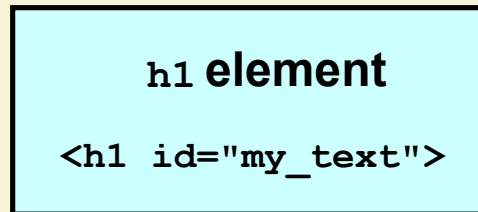
Click [here](#) to open the example

h1 element

```
<h1 id="my_text">
```

Text node

Please click...



```
<!DOCTYPE html>
<html>
<head>
<script>
function insert_new_text()
{
    var newText = document.createTextNode(
        "This is dynamically added text!");
    var textpart = document.getElementById("my_text");
    textpart.appendChild(newText);
}
</script>
</head>
<body onclick="insert_new_text()">
<h1 id="my_text">Please click on the page</h1>
</body> </html>
```