

# CLONING NODES

# AFTER THIS PRESENTATION

- You'll be able to copy (clone) a node
- You'll be able to copy a branch of nodes

# WE WILL LOOK AT

Copying a node     *the\_node.cloneNode()*

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Copying a branch     *the\_node.cloneNode(true)*

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Adding node(s)     *dest.appendChild(the\_node)*

# THE BASIC IDEA

1. Copy node(s) from the DOM
2. Paste the copied node(s) in the DOM

Every colored box here represents a node

`<html>`

The top node is called the root

This is a parent of two child nodes

`<head>`

This is a child of `<head>`

`<title>`

`<meta>`

This is a sibling of `<meta>`

Text

*A simple...*

This is a branch

Text

*My web...*

Text

*This...*

# CLONING A NODE

Use `node.cloneNode()`

It's the same as `node.cloneNode(false)`

# EXAMPLE

1. A list item node `<li>` is copied
2. The copy is then added to the end of the list

- Good morning
- Hello

Click on the button to  
`cloneNode()`

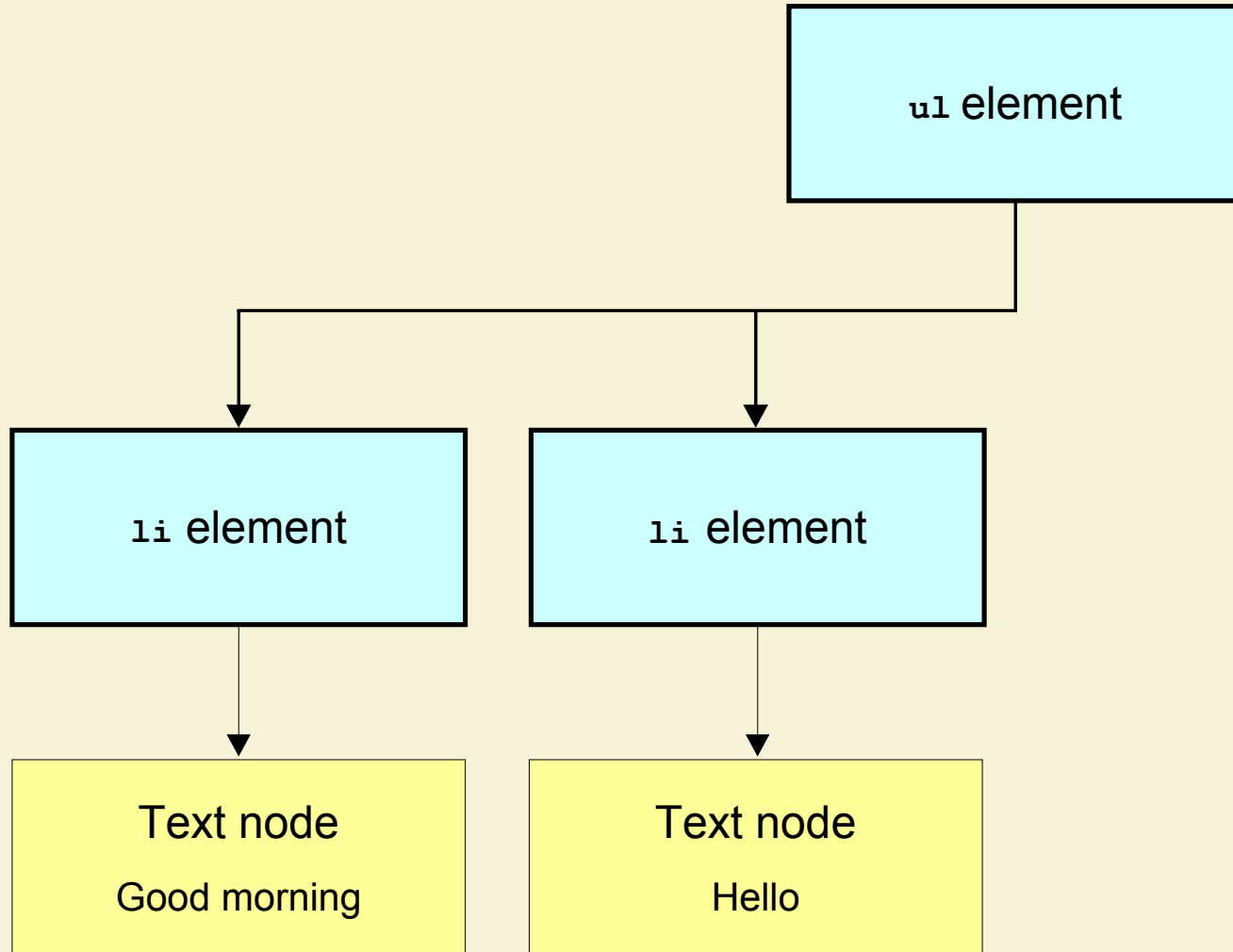
Copy it!

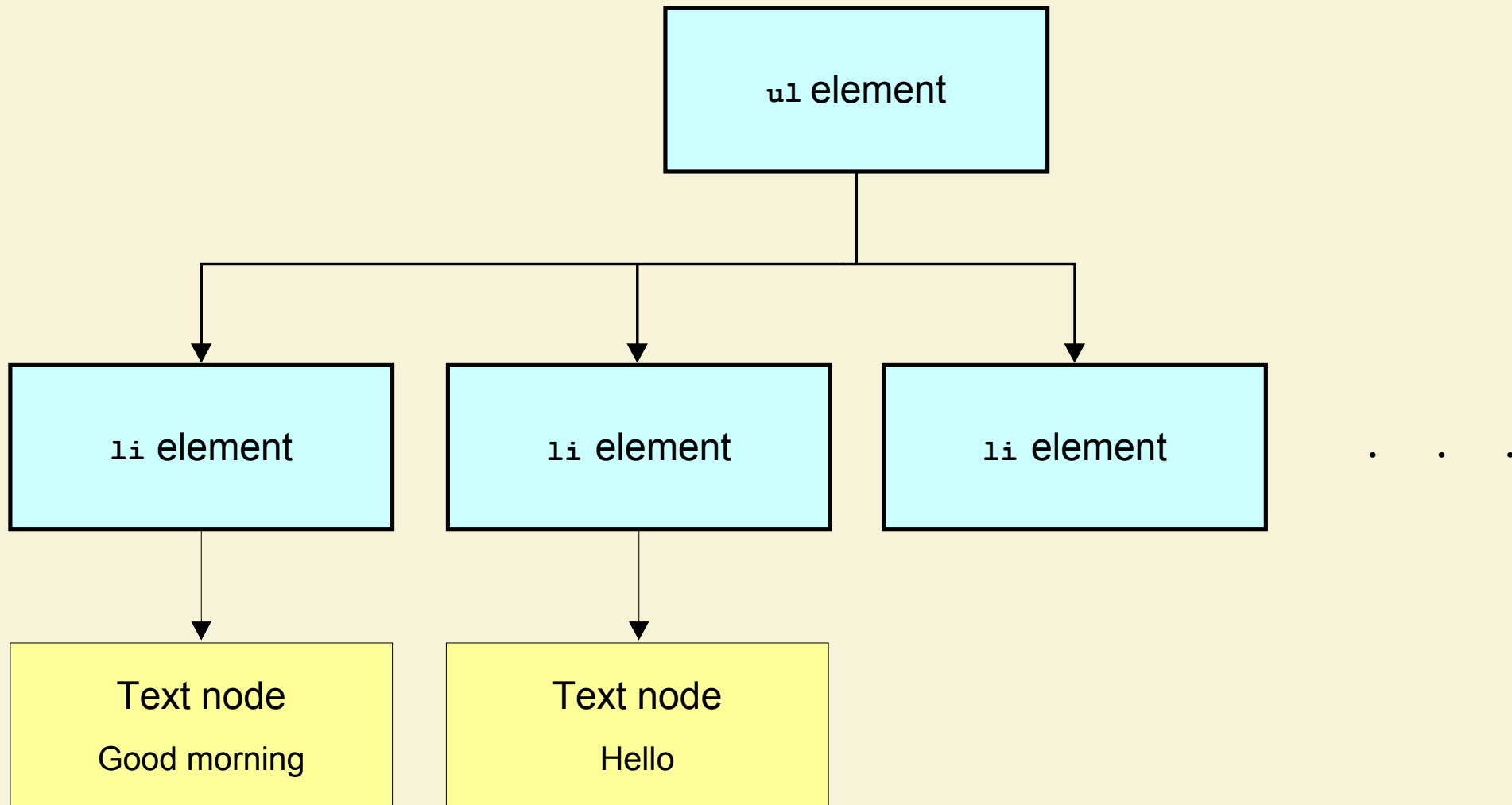
Click [here](#) to open the example



```
<!DOCTYPE html>
<html>
<body>
<script>
function myFunction() {
    var the_node=document.getElementById("myList").lastChild;
    var the_clone=the_node.cloneNode();
    document.getElementById("myList").appendChild(the_clone);
}
</script>
<ul id="myList"><li>Good morning</li><li>Hello</li></ul>

<p>Click on the button to cloneNode()</p>
<button onclick="myFunction()">Copy it!</button>
</body>
</html>
```





# CLONING A BRANCH

Use `node.cloneNode(true)`

# EXAMPLE

1. A list item branch `<li>` with text node child are copied
2. The copy is then added to the end of the list

- Good morning
- Hello

Click on the button to  
`cloneNode(true)`

Copy it!

Click [here](#) to open the example

```
<!DOCTYPE html>
<html>
<body>
<script>
function myFunction() {
    var the_node=document.getElementById("myList").lastChild;
    var the_clone=the_node.cloneNode(true);
    document.getElementById("myList").appendChild(the_clone);
}
</script>
<ul id="myList"><li>Good morning</li><li>Hello</li></ul>

<p>Click on the button to cloneNode(true)</p>
<button onclick="myFunction()">Copy it!</button>
</body>
</html>
```

