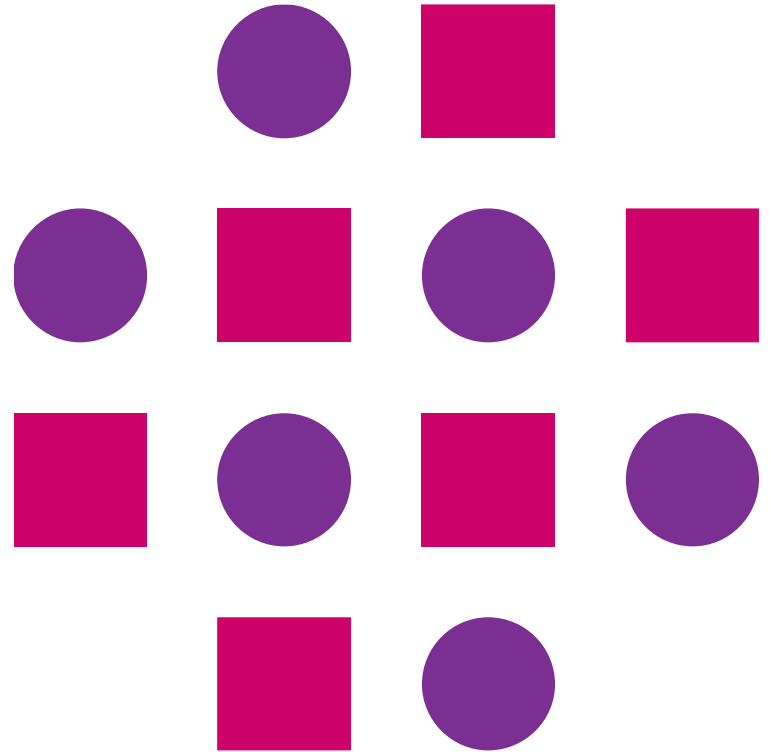


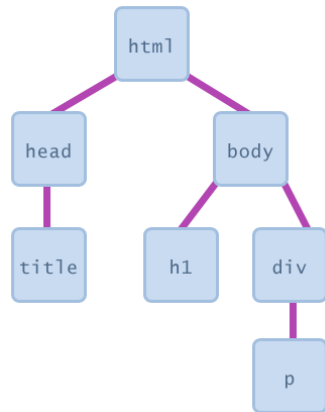
DOM Handling

jQuery



Document Object Model (DOM)

- The W3C Document Object Model (DOM) is a platform and language-neutral interface that allows programs and scripts to **dynamically access and update the content, structure, and style of a document**
- jQuery provides multiple methods to manipulate DOM
- Using these methods it is easy to access and manipulate elements and attributes
- It also provides methods to change browser window dimensions



DOM APIs

Selector	Description
<code>\$(selector).text();</code>	Sets or returns the text content of selected elements
<code>\$(selector).html();</code>	Sets or returns the content of selected elements (including HTML mark-up)
<code>\$(selector).val();</code>	Sets or returns the value of form fields



Example usage – Getting values using DOM APIs

```
<script>
$(document).ready(function() {
    /* Get values from various HTML elements */
    $("#btn1").click(function(){
        console.log("Paragraph" + $("#test1").text());
        console.log("Value" + $("#test2").val());
    });
});
</script>
```

Example usage – Setting values using DOM APIs

```
<script>
$(document).ready(function() {

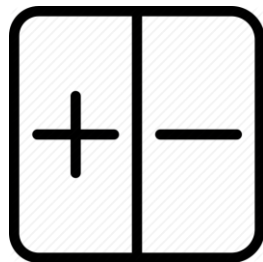
    /* Upon button click change text */
    $("#btn1").click(function() {
        $("#test1").text("First paragraph - normal text");
    });

    /* Upon button click change HTML text */
    $("#btn2").click(function() {
        $("#test2").html("<b>Second paragraph</b>");
    });

    /* Upon button click change input field value */
    $("#btn3").click(function() {
        $("#test3").val("New Value...");
    });
});
</script>
```

DOM APIs – Insert and Remove

Selector	Description
<code>\$(selector).append();</code>	Inserts content at the end of the selected elements
<code>\$(selector).prepend();</code>	Inserts content at the beginning of the selected elements
<code>\$(selector).after();</code>	Inserts content after the selected elements
<code>\$(selector).before();</code>	Inserts content before the selected elements
<code>\$(selector).remove();</code>	Removes the selected element (and its child elements)
<code>\$(selector).empty();</code>	Removes the child elements from the selected element



Example usage – Insert and remove using DOM APIs

```
<script>
$(document).ready(function() {

$("#myButton2").click(function() {
    $("#test2").remove();
});

$("#myButton4").click(function() {
    $("#test3").append(" <li><b>Appended text</b></li> ");
});

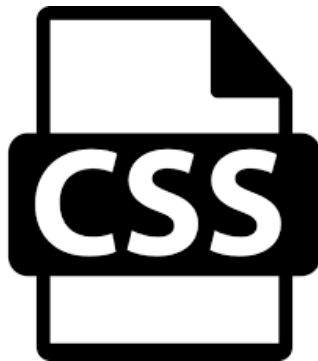
});
</script>
```

DOM APIs – Handling styles

Selector & Description

```
$(selector).css("property", "value");  
$(selector).css({"property": "value", "property": "value", ...});
```

Set a single or multiple properties on a selector



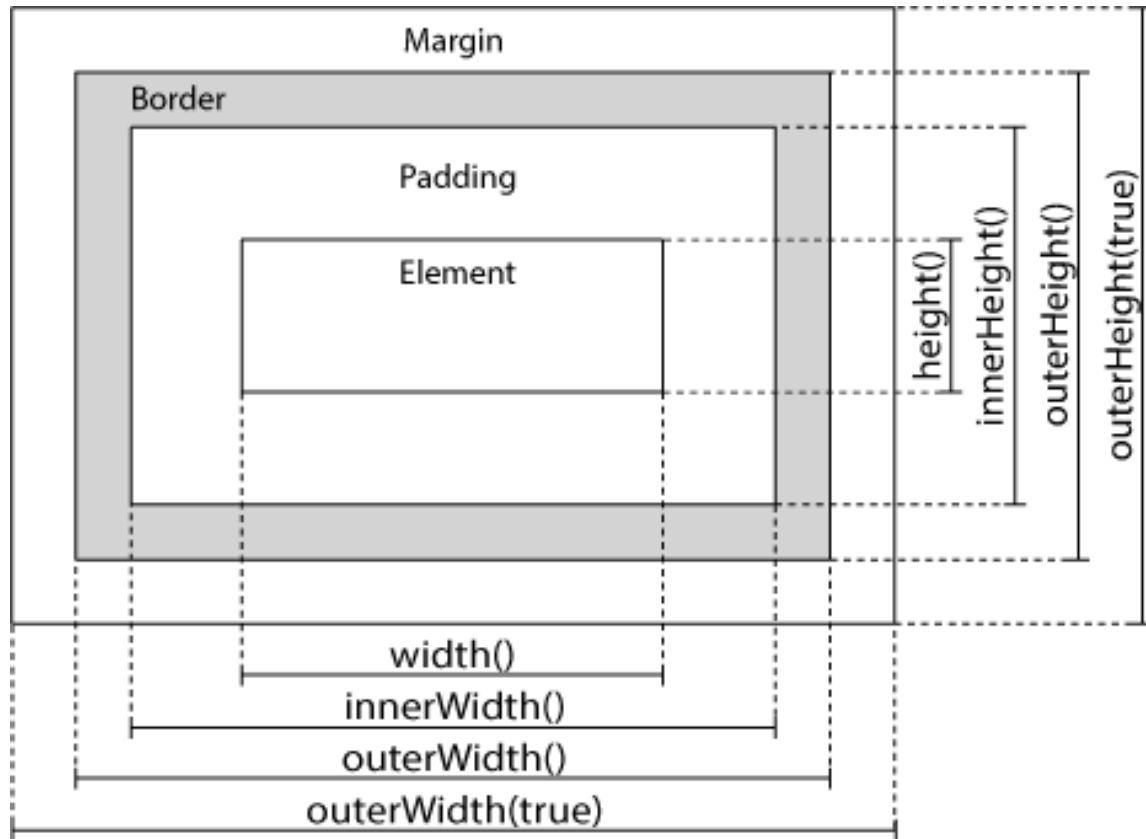
```
$("p").css("background-color", "blue");  
$("p").css({"background-color": "red", "font-size": "100%"});
```


jQuery – Dimension APIs

Selector	Description
<code>\$(selector).width();</code>	Sets or returns the width of an element (excludes padding, border and margin)
<code>\$(selector).height();</code>	Sets or returns the height of an element (excludes padding, border and margin).
<code>\$(selector).innerWidth();</code>	Returns the width of an element (includes padding)
<code>\$(selector).innerHeight();</code>	Returns the height of an element (includes padding)
<code>\$(selector).outerWidth();</code>	Returns the width of an element (includes padding and border)
<code>\$(selector).outerHeight();</code>	Returns the height of an element (includes padding and border)



jQuery – Dimension APIs



Example usage – Dimensions

```
<script>
$(document).ready(function() {

    $("button").click(function(){
        console.log("Width: " + $("#div1").width());
        console.log("Height: " + $("#div1").height());
        console.log("OuterWidth: " + $("#div1").outerWidth());
        console.log("OuterHeight: " + $("#div1").outerHeight());
    });

});

</script>
```

Exercise



- Implement Multiple lists as follows and implement various list operations (insert, delete, append, insert before etc..) by using DOM APIs
 - Student names
 - Course names
 - Qualification
- Re-implement following JavaScript exercises using jQuery and find out the difference in implementation:
 - Modify the text-align, font-size, font-family of heading1
 - Change the background color of all the <div> tag
 - Add text shadow in all paragraphs in the given essay

*Thank
you*

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