

## Javascript and DOM

### In-class exercise 9

1. W3C school (<https://www.w3schools.com/>)
  2. HTML Basic DOM
    - a. Finding HTML Elements
      - `document.getElementById`
      - `document.getElementsByTagName`
      - `document.getElementsByClassName`
    - b. Changing HTML Elements
      - `element.innerHTML = new html content`
      - `element.attribute = new value`
      - `element.style.property = new style`
    - c. Adding and Deleting Elements
      - `document.createElement(element)`
      - `document.removeChild(element)`
      - `document.appendChild(element)`
      - `document.replaceChild(new, old)`
      - `document.write(text)`
- (0) Import the js file I provided. The file contains a shorter list of the most common baby name in the U.K.  
Insert `<table id="name_table"></table>` under the body.
- (1) Use a loop, `getElementById()`, `createTextNode()`, `createElement()`, and `appendChild()` to create a table with the names.  
You may use HTML tags and `innerHTML` to finish the rest requirements of this note.
- (2) Showing how many names are there in the table.
- (3) Create a input area for users to input their first name and last name. And ask the users to separate the first name and last name by a space.
- (4) Validate that there are only one first name and one last name in the input. If the input does not meet the requirements, show `alert("Wrong input")`;
- (5) If the name passed the validation of 4, Insert the first name into the table and update the total number of all names.
- (6) Use `setAttribute` to set the border of the table = 1.
- (7) When users copy any name from the table, show the following alert "**NAME** is copied!!" (Use `addEventListener`, <https://developer.mozilla.org/en-US/docs/Web/Events>, `this.innerText`).

Use a space to sperate    Add a name.

14 names in the table

<b>Names</b>
David
John
Paul
Mark
James
Andrew
Scott
Steven
Robert
Stephen
William
Craig
Michael
Stuart

Andy Wang    Add a name.

16 names in the table

<b>Names</b>
David
John
Paul
Mark
James
Andrew
Scott
Steven
Robert
Stephen
William
Craig
Michael
Stuart
J
Andy