

## Javascript

### In-class exercise 8

1. W3C school (<https://www.w3schools.com/>)
2. Loop: while, do...while, for

Counter-controlled vs. sentinel-controlled repetition

3. break vs. continue

break: terminate the entire loop

continue: skip one round of a loop

**Try:** What would the browser display?

```
<script>
  for ( var count = 1; count <= 10; count++ ) {
    if ( count == 5 )
      break;
    document.write( count+"<br/>" );
  }
</script>
```

//How about replace the “**break**” with “**continue**”?

- (0) Import the js file I provided. In the js file, one string is initialized and it should contain over 200 the most common male baby names in the UK.
- (1) Split the string into an Array with all the names.
- (2) Create a dropdown list contains all the names and give each name a sequential number.



- (3) While pressing the select button, the page should create a pyramid with all the names, and the selected name should be highlighted with any color of your choice.

- (4) Based on the current locale, add a line of the time information above the pyramid. Make sure the time will be updated while any updates are made on the page.
- (5) Add an “I feel lucky!” button. While pressing the button, one of the names in the pyramid will randomly be highlighted.
- (6) Add a “Let’s Disco!” button. While pressing the button, one of the names in the pyramid will randomly be highlighted every 1 second. (Hint: setInterval) And change the text on the “Let’s Disco!” button to “Stop the music!”.
- (7) While pressing the “Stop the music!” button, the “Disco” should stop, and the text on the “Stop the music!” button should be changed back to “Let’s Disco!”.

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