### **Challenge #3: JavaScript - Functions with ‘this’ (15 minutes)**

In this exercise, you'll learn how to interact with HTML elements and update content dynamically using JavaScript. Your task is to understand how button clicks trigger updates to both text and images on the page.

#### **Instructions**

1. **Skeleton Files**:
   * Go to **eLearn → Content → Week 4 → In Class → (unzip) Week4\_InClass → Challenge3**
   * You will find **3 skeleton files**:
     + home.html: The main HTML file.
     + styles.css: The CSS file used to style the main page.
     + script.js: The JavaScript file you’ll use to add interactivity to the main page.
2. Don’t forget to use **Chrome Browser’s InCognito mode**.
3. Please remember to **hard-reload/refresh** (the main HTML page in the web browser upon making changes to the HTML file (if any), the CSS file (if any), and the JavaScript file (you will make changes here for sure).
   * **Windows**: CTRL + SHIFT + R
   * **Mac**: command + SHIFT +R
4. Go to home.html and inspect the code. Understand what elements are of importance in terms of DOM manipulation you will perform later on using JavaScript.
5. Go to script.js and
   * **Task 1**
     + When a button (with TA’s name) is clicked, the **fun fact** about the respective TA will appear in the box next to the buttons. The **fun facts** are stored in the **const ‘facts’**.
     + Add more code in the function show() so that the function retrieves the correct **fun fact** and **displays** it in the HTML page.
   * **Task 2**
     + Additionally, the TA's image will be updated to the corresponding photo, which is stored in the photos/ sub-folder.
     + Add more code in the function show() so that the function updates the default image with the correct image of the selected TA.
   * **Task 3**
     + The **background color** of the **clicked button** will change to **aqua**, and the **text color** will switch to **black** to indicate the selected TA.
     + Add more code in the function show() to enable this.
     + After the user selects the first TA and then clicks on another TA’s button, the previously selected TA’s button should be changed back to default setting as specified in styles.css and that is:
       1. Background color: **darkblue**
       2. Text color: **white**

*See below for example output screens*

| home.html (upon loading this page for the first time - the user hasn’t clicked on any buttons) |
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|  |

*See more examples in the next pages*

| home.html (after the user clicks on **Brandon** button) |
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*See more examples in the next pages*

| home.html (subsequently, after the user clicks on **Darryl** button) |
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*See more examples in the next pages*

| home.html (subsequently, after the user clicks on **Nick** button) |
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*See more examples in the next pages*

| home.html (subsequently, after the user clicks on **Yin Kit** button) |
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