

COMP 2015 – Lab 3

Due at the beginning of Lesson 4 to the Dropbox > 'Lab 3' folder on D2L (learn.bcit.ca)

Submission

Write **one .js file** named **firstname-lastname-lab3.js** and submit that file to the Lab 3 dropbox on D2L. For example, if your name is Chris Harris, your file must be called **chris-harris-lab3.js**

Only submit your .js file, **do not include any HTML or images**.

Instructions

The .html file you use to test your script must have:

- An **H1**, with your **name** inside it (e.g. `<h1>Chris Harris</h1>`)
- A **paragraph**, with an html **button** element inside it. The button must have id **toggle**
- A **div** with id **div1**, **100px wide** and **100px tall**, with a **background color** of your choosing (this **initial** width and height can be hard coded in JavaScript or CSS)
- A **div** with id **div2**, that has **three paragraphs inside it**.
- A **link in the head** to your **external .js file**

Part 1

Create an array named *colors* and fill it with three strings representing colors of your choosing, e.g. 'blue', 'green', 'red'

Part 2

Using **JavaScript** (no jQuery), each **paragraph** in **div2** must **independently** have its **background color** changed when the mouse is **hovering** over it (i.e. **it must change back to white when the mouse is no longer over the particular paragraph**).

The background colors must be taken from your *colors* array, and must be set in order. That is, the **first** paragraph will have its background color set to the **first** color in the *colors* array, the **second** paragraph must have its background color set to the **second** color in the array, and so on.

Part 3

Using either JavaScript or jQuery, you must change the **height** of **div1** to **200px** when the button with id **toggle** is **clicked**.

If you are interested in animating the height change, take a look at CSS transitions (https://developer.mozilla.org/en-US/docs/Web/CSS/CSS_Transitions/Using_CSS_transitions) and look at assignment1.css for an example. *This is not required for the lab!*

Part 4

Add a **resize** event listener to the **window**. The second argument to this event listener must be a function that keeps track of the **width** of the browser window. If the browser window is **less** than **800px** wide, the **h1** text must be **red**. If the browser window is **greater than or equal** to **800px**, the **h1** text must be **black**.

HINT:

For part 2, you can use

```
document.querySelectorAll( )
```

to retrieve the paragraphs inside div2

An example using div1 and images:

```
var div1images = document.querySelectorAll('#div1 img');
```