**Script 1:**

Sidebar Overhaul:

With Javascript, I can achieve a much better and lighter sidebar, rather than what I have accomplished with HTML and CSS alone. While I plan on using more than one script for this area, I would group all these scripts with the same purpose under one script.

Firstly, to eliminate the arduous need to respace my content of the page in CS, and to achieve the minimalistic UI that I wish to design my website, I will utilize a button at the upper-left that hides and shows the sidebar at will and the click of a button. Also, it will make sure that any changes to the menu (opened nested menus) will reset upon re-opening the sidebar

In order to accommodate the sections of some of my subpages (Aircraft Info, Facts, History, and my FSX subpages), I must use a nested menu, or accordion box for my sidebar. While hub pages for each of these sections are suitable for less adept users, the nested subsections provide fast navigation to these pages that would be much more efficient for my more adept users. To do this, I must create a script that enables rolling the mouse over the div in the menu bar that contains the links to the subpages that require their special menu. The menu buttons with their special sections must be identified by its unique ID that enables it to be used as such, so not every nested menu.

**Pseudocode (WIP):**

**Function openMenu() {**

**Sets the width of the sidebar to its size when open (200px)**

**Any elements with the ID nestedMenu are hidden**

**}**

**Function closeMenu() {**

**Sets the width of the sidebar to its size when closed (0px)**

**Function for accordion boxes [**

**Var nest = element by class name “submenu”**

**Var x**

**For each nested menu in the sidebar**

**Upon mousing over the button containing nested menu**

**Set that to active**

**Var panel = active nested menu**

**Open the menu as long as the mouse is hovering over the button, or the submenu itself**

**]**

**Script 2:**

Automatic Slideshow:

On my aircraft photos page, I wish to use a slideshow showing off various sample images I have over the albums on my website. To do this, I will select some of the images from each album, and put them together in a brief sample slideshow on my hub page for photos. However, unlike my last script, this one will use completely new code with the help of some tutorials from the W3 Schools website, rather than what I have done from the last attempt.

**Pseudocode (WIP):**

Var photoIndex = 0;

Var x;

Var photos = all elements by class name “myPhotos”

For each photo, hide each photo

Increase photoIndex by 1

If photoIndex is greater than the number of photos, reset the photoIndex to 1

“PhotoIndex – 1” is displayed

Wait around 10 seconds before changing the photo

Have the photo smoothly change from one to another

**Script 3:**

Form Validation:

With Javascript, I can improve the state of the form boxes on the contact me page. What I wish to do is to have the browser tell the user that he cannot leave any box empty, and that the email address must be valid. While this script is quite simple, it is effective in letting the user know whether he/she is missing something to send. Additionally, I wish to also validate the email form box such that it is a valid email address.

**Pseudocode:**

validateForm() {

var x = The form for names

var y = The form for email addresses

if x is blank, or contains any invalid characters in the case of names like punctuation or numbers

Alert user of error pertaining to appropriate case

If y is blank, or doesn’t contain a valid email address

Alert user of error pertaining to appropriate case

}