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## Homework 02: JavaScript

While creating the actual webpage using HTML and CSS was easy and straightforward because of our first assignment, actually getting the form validation to work using JavaScript was initially quite a challenge. I have never used JavaScript before (beyond our recent lab and an 'Intro to Computer Science Principles' class I took during my junior year of high school), thus I was struggling to understand how the validation process worked in the provided example. However, after looking through the code for a good bit of time and browsing through a fair share of Stack Overflow, I was finally able to understand the majority of what was occurring in the examples.

From there, I heavily based my own solutions to achieving the form validation off of the JavaScript code used in the examples (going as far as directly using the functions 'emailCheck', 'getImage', and 'getNotification', and 'alphaNumCheck'). The only thing I was unable to understand was how to use the HTML attribute 'pattern' to reduce the form validation that is otherwise required to be written in JavaScript. While I was able to understand how the 'pattern' HTML attribute worked and implement it in my code (see the errors that appear when the patterns are not followed), I was unable to understand how to actually use the 'pattern' in my JavaScript code to reduce the need to manually check these same input constraints applied by the 'pattern' attribute.

Thus, choosing to still include the 'pattern' attribute in my 'validation2.html' file was a bit redundant (since I had to manually validate the form using JavaScript), but I found the extra

error messages that appear when a 'pattern' is not followed to be useful, especially from a user's perspective. Additionally, while it doesn't appear that my 'Submit' button on the 'validation2.html' page is actually a 'Submit' button since the form is not reset, this is because I disabled this from occurring so that the graders could see that the form validation images and notifications work as intended.

Here are the required screenshots:

- Validation1:
  - [All failed:](#)
  - [First name passed:](#)
  - [Last named passed:](#)
  - [Gender passed:](#)
  - [State passed:](#)
- Validation2:
  - [All failed:](#)
  - [Email address passed:](#)
  - [Phone number passed:](#)
  - [Address passed:](#)