

Front-End Web Development

Homework 6

Homework Assignment

In this homework you will:

- Use JavaScript to change properties of the DOM based on user input.
- Explore the use of conditional statements and sanitizing user input.
- **Bonus:** Learn about **switch** statements.

Assignment: CitiPix

JavaScript is powerful. With it, we're able to take user interaction and information and use it to update the page without requiring a refresh.

This week, a new startup in your city, CitiPix, is looking to create a personalized picture app that allows users to store pictures they've taken around the world and quickly access them by typing in keywords or tags. The team has asked for your help to start building the front-end prototype.



Look at the Solution

You can better see how this should work by looking at the final product:

<https://codepen.io/GAmarketing/pen/ZEGJzEw>

Our goal is to create a background-switching search form. Your input field will take values from the form and match them in JS. When there is a match, the background image should change.

Think through how to accomplish this. There are more logic steps than you'd probably think. Pseudocode!



Tips

- Write pseudocode before coding to demonstrate your understanding of interactive programming theory and focus on the logic without being distracted by syntax details.
- Store user-submitted information in a variable to be used throughout an application (this will make things easier).
- Clean the data you get from the page (think about `.trim` and `.toLowerCase` methods to make things easier, you can chain methods!)

Resources:

- <https://css-tricks.com/snippets/javascript/strip-whitespace-from-string/>
- https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String/toLowerCase

Starter Code

Here's the baseline with HTML and CSS already in place:

<https://codepen.io/GAmarketing/pen/ExjvYpK>



Bonus: Learn switch Statements

If you have a keen eye, you may have noticed that writing a bunch of if/else statements together gets cumbersome. There is another, slightly cleaner syntax that can help with conditional behavior: a **switch** statement.

Javascript.info has a great writeup on the **switch** statement:

<https://javascript.info/switch>

Try to recreate this assignment using **switch**. Here's the same thing coded up with **switch**:

<https://codepen.io/GAmarketing/pen/NWqvKYE>



