

## Net-Centric Computing

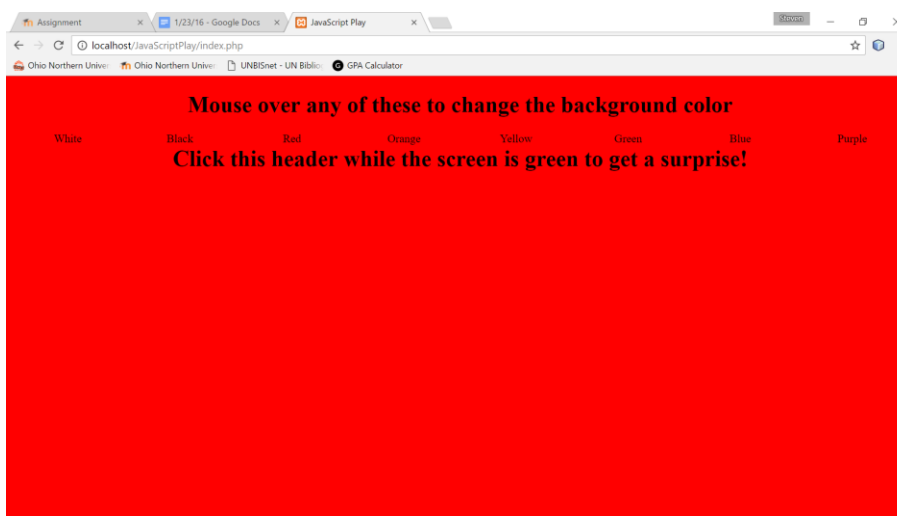
### JavaScript Play

Steven Peters

Prof. Retterer

I was instructed to play with JavaScript. Essentially I was told to create something using JavaScript events in a creative way. I have never considered myself a creative person, but JavaScript seems to have a lot that you can do with it, so I tried to create a few gimmicky things on a page using JavaScript.

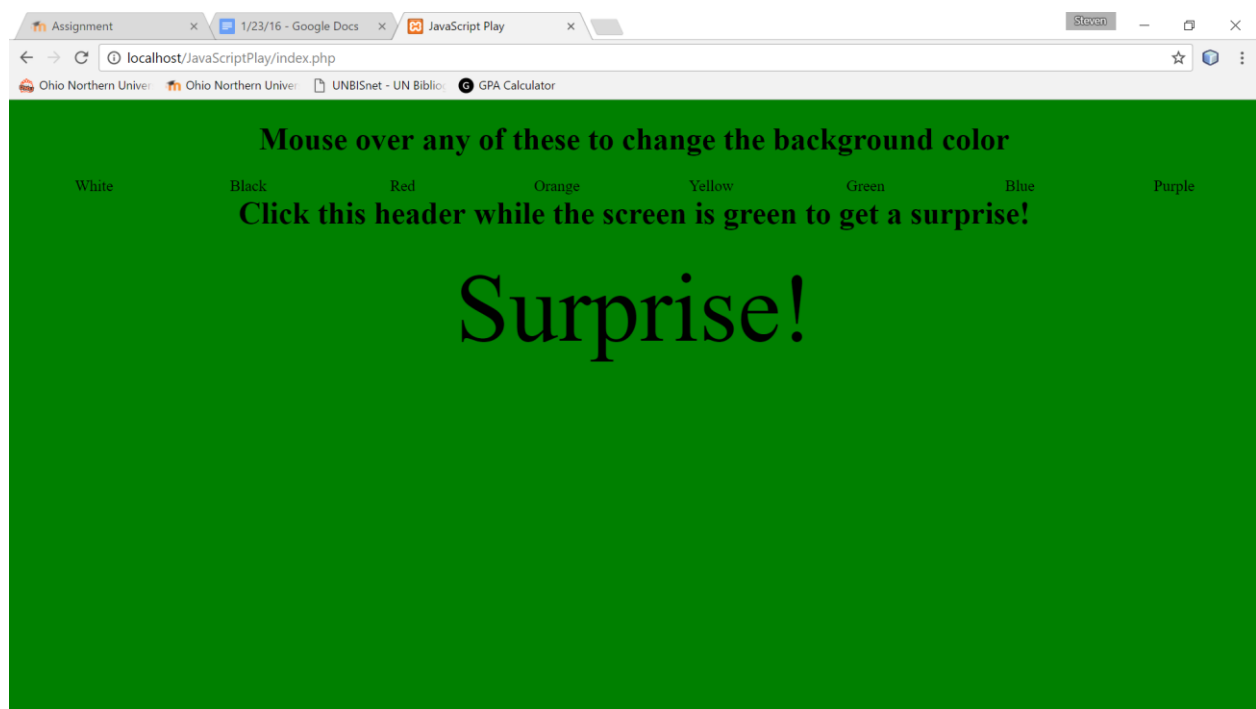
I started out by reading the tutorials on w3schools.com about JavaScript. After I learned the basics of how it was used, I went to the list of all the events and picked a few I wanted to use. I wanted to use a mouse-event, a clipboard event and do something gimmicky with one of them. I wanted to do what I had suggested in class and make it so that when a user copies something on the page it copies something else to the clipboard, but after about 45 minutes of googling, it seemed as though the only way this could be achieved would be through jQuery, which we



hadn't learned yet. So I had to throw out that idea and just go with the mouse events. At first I was just going to use the onclick event to change the background color, but I

decided that was too boring so I decided to make it a onmouseover event instead. I used CSS to float the divs with the different color options and set the sizes so they were easy to mouse over.

However, this was very easy and I felt I hadn't done enough. So I decided to try to making a "secret" so to speak. I wanted to make it so if you clicked on something while the background was a certain color a div would appear. This gave me an opportunity to create another function and use variables in JavaScript. So, I added a line to set a variable equal to the color of the background, and then created a function with an if statement in that made it so a hidden "Surprise!" div appeared if the heading was clicked while the variable, and consequently the background color, was set to green.



In reflection, I think that this assignment was fun. I got to use my second loosely typed language, and I had fun making a gimmicky website with no real purpose. Without a set purpose though, I am unsure of what to add to a website. It's like something I heard once said. You can't just create something out of the blue, You have to have a problem to solve, or a set goal in mind. I feel like these assignments would be more helpful if we were to have a goal in mind, such as "Create a homepage for a (imaginary) client that uses javascript to show off their wood sculptures," or something along those lines.

## HTML/JavaScript

```
<!DOCTYPE html>
<!--
To change this license header, choose License Headers in Project Properties.
To change this template file, choose Tools | Templates
and open the template in the editor.
-->
<html>
  <head>
    <meta charset="UTF-8">
    <link rel="stylesheet" type="text/css" href="main.css">
    <title>JavaScript Play</title>
  </head>
  <body id="body">
    <h1>Mouse over any of these to change the background color</h1>
    <div onmouseover="changeColor('White')">
      White
    </div>
    <div onmouseover="changeColor('Black')">
      Black
    </div>
    <div onmouseover="changeColor('Red')">
      Red
    </div>
    <div onmouseover="changeColor('Orange')">
      Orange
    </div>
    <div onmouseover="changeColor('Yellow')">
      Yellow
    </div>
    <div onmouseover="changeColor('Green')">
      Green
    </div>
    <div onmouseover="changeColor('Blue')">
      Blue
    </div>
    <div onmouseover="changeColor('Purple')">
      Purple
    </div>
    <h1 onclick="clickGreenScreen()">Click this header while the screen
is green to get a surprise!</h1>
    <div id="surpriseDiv">
      Surprise!
    </div>
    <script>
      var backgroundColor = "White";
      function changeColor(color) {
        document.getElementById('body').style.backgroundColor=color;
        backgroundColor = color;
      }
      function clickGreenScreen() {
        if (backgroundColor == "Green") {
          document.getElementById('surpriseDiv').style.display =
'block';
        }
      }
    </script>
```

```
</body>  
</html>
```

## CSS

```
/*
To change this license header, choose License Headers in Project Properties.
To change this template file, choose Tools | Templates
and open the template in the editor.
*/
/*
    Created on : May 5, 2017, 4:29:26 AM
    Author      : Steven Peters
*/

div {
    width: 12%;
    float: left;
    text-align: center;
    margin-left: 0.25%;
    margin-right: 0.25%;
}

h1 {
    text-align: center;
}

#surpriseDiv {
    width: 100%;
    float: none;
    margin: 0%;
    font-size: 100px;
    display: none;
}
```