

Net-Centric Computing

PHP 1

Steven Peters

Prof. Retterer

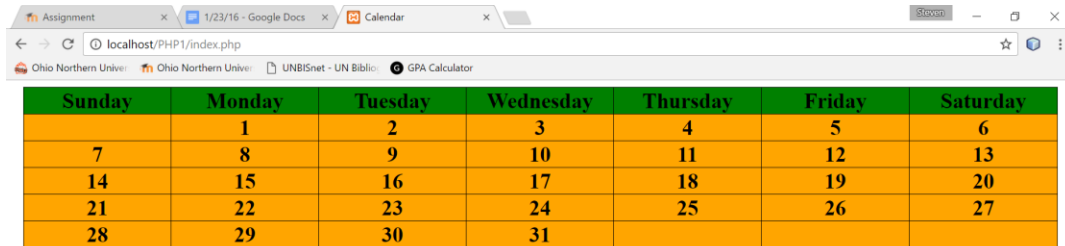
I was instructed to use the calendar code at <https://github.com/d-retterer/nc2017> as a model write your own version of Calendar. Any indication of copy/paste from my code to yours will result in a major deduction. Submit a paper in pdf form that describes your experience and your product with narrative, code and screen shots.

I went into this project hesitantly. To me, PHP seemed different and a bit scary. It was what professor Retterer described as a “loosely typed” language, which seemed so foreign to me. I feel like if I hadn’t learned any other language prior to learning PHP then it would have been easier to grasp. But after spending a couple hours reading about PHP on w3schools.com I didn’t have any trouble creating a calendar in a couple hours.

I only briefly looked at the example code provided on github. I figured that if I don’t look at the code very much it would be difficult to copy, even on accident. So, after glimpsing the code and getting a general idea of what was required, I started coding. I decided I wanted to create a function with two parameters fairly early on. One parameter to determine what day of the week the calendar month started on, and one to determine how many days there were in the month.

I created the basic outline of the code, and started filling in the code for the function. For the first row of the table, I wanted Sunday through Saturday listed for clarity sake. So I created the first row of the table and gave it an id of “dayRow” so I could style it later. I added the seven cells and entered the days of the week in them. Then I created a for loop with the passed variables to create the rest of the table. However, this part took much longer than I anticipated. It

took me a long time to figure out exactly where to add the passed variables in order for the end result to start on the specified day and have the specified number of days. This process was just trial and error.

A screenshot of a web browser window. The address bar shows 'localhost/PHP1/index.php'. The browser has several tabs open: 'Assignment', '1/23/16 - Google Docs', and 'Calendar'. The main content area displays a calendar table with 7 columns for the days of the week and 5 rows of dates. The top row has green headers, and the rest of the table has orange cells.

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
7	1	2	3	4	5	6
14	8	9	10	11	12	13
21	15	16	17	18	19	20
28	22	23	24	25	26	27
	29	30	31			

Once I got that done, I went into the styling and added borders to the cells, colored them in, making them all orange and the top row green. However, when I did that I realized that I hadn't done anything about the spots in the table where there were no numbers. So, I spent about another hour doing more trial and error until I finally figured out how to get the empty cells to populate, no matter what variables are passed.

In reflection, this assignment was a nice learning experience. I learned the beginnings of my first loosely typed language, and I created a calendar that can be created given any start day between one and seven, for Sunday through Saturday, and given any amount of days, even if that amount of days isn't realistic. It will always create a nice-looking calendar given those parameters. If I were to ever try to improve this, I would probably add a drop down menu to select the start day and another one to select the number of days in the month. I would use drop down menus to limit the ability for errors to pop up.

PHP

```
<!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>Calendar</title>
  </head>
  <body>
    <?php
      createCalendar(2, 31);

      function createCalendar($startDay, $numDays) {
        echo "<table>";
        echo "<tr id = dayRow>";
        echo "<th> Sunday </th>";
        echo "<th> Monday </th>";
        echo "<th> Tuesday </th>";
        echo "<th> Wednesday </th>";
        echo "<th> Thursday </th>";
        echo "<th> Friday </th>";
        echo "<th> Saturday </th>";
        echo "</tr>";
        echo "<tr>";
        for ($i = 1; $i < ($startDay + $numDays); $i++) {
          if ($i - $startDay + 1 < 1) {
            echo "<th></th>";
            continue;
          }

          echo "<th>" . ($i - $startDay + 1) . "</th>";

          if ($i % 7 == 0) {
            echo "</tr>";
            echo "<tr>";
          }

          if ($i == ($startDay + $numDays) - 1 && (7 - $i % 7) != 7) {
            for ($j = 0; $j < (7 - $i % 7); $j++) {
              echo "<th></th>";
            }
          }
          echo "</tr>";
        }
      }
    ?>
  </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, 1:12:05 AM
    Author      : Steven Peters
*/

tr {
    background-color: orange;
}

#dayRow {
    background-color: green;
}

table {
    margin-left: 1%;
    border-collapse: collapse;
    width: 98%;
}

th {
    border: 1px solid black;
    width: 14%;
}

body {
    font-size: 26px;
}
```