Absolute Beginner's Guide to Web Development Workshop

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Workshop Overview

Before we get into the platform we will use to edit web pages during this workshop, the instructor will provide the following:

1. An overview of web development including the technologies we will use during today's workshop (HTML, CSS and jQuery).
2. A preview of each step of the process during the 3-hour workshop including the final result.

GitHub Pages Overview and Login Instructions

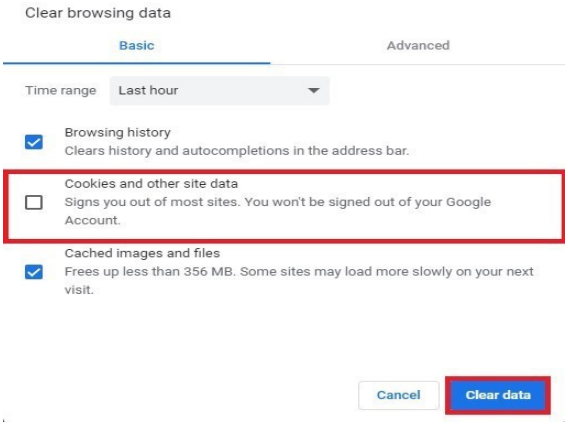
For this workshop, we are going to use Github Pages to create, edit, and manage HTML, CSS and JavaScript (jQuery) content.

Quick Points

1. Google Chrome is the best browser to use for this workshop.

2. At times you will need to clear the browser cache for changes to appear (CTRL+SHIFT+DEL in Chrome). **IMPORTANT**: In the dialog box, be sure to uncheck the box next to **Clear Cookies and Other Site Data**.

3. Once you clear the cache, you may need to log into Github again. The login info is available in the header of every page throughout this document (after this page).



4. Have fun and be patient – lots of new material and moving parts! 😊

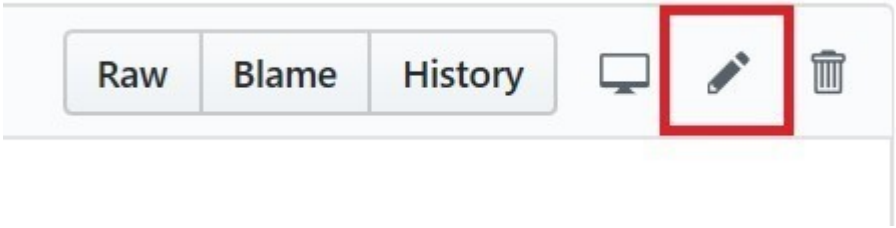
Github Login

1. Go to github.com
2. Sign in with the following username and password:

   username: introwebdev101

   password: MooWeb123!@#

3. Once you are signed in, type the following website address in the address bar and click **enter:** **https://tinyurl.com/siouxfalls-aug28**
4. Click on the folder with your name on it
5. Click on the file titled **index.html**
6. Click the small pencil icon above the file content to begin editing the file:



Workshop Files: https://tinyurl.com/siouxfalls-aug28
Live Site: https://introwebdev101.github.io/aug28/firstname (all lowercased)

Username: introwebdev101
Password: MooWeb123!@#

HTML Updates

Update following content in your index.html document:

<head> section updates

1. Change the content attribute to your name, change the title tag to a page tab title you prefer

```
1   <!DOCTYPE html>
2   <html>
3      <head>
4         <meta charset='UTF-8'>
5         <meta name='description' content='Intro to Web Workshop'>
6         <meta name='keywords' content='training, introduction, web, development'>
7         <meta name='author' content='Your Name'>
8         <meta name='viewport' content='width=device-width, initial-scale=1.0'>
9
10        <title>Tab Title</title>
11
```

<body> section updates

1. Change the ** ** color names on lines 21 and 22 to colors you prefer.

   Current HTML Content:

   Line 21:

   Line 22: **Example Update:**

   Line 21:

   Line 22:

2. Update the **<p>** content on lines 28 and 29 to your own text.
3. Update the **<a>** tag on line 34 to refer to a web page you prefer.
4. Update the **<img>** tag on line 37 to refer to a link and image you prefer. See info below on how to add an open source image.

How to Add an Open Source Image from pexels.com in **Google Chrome**

1. Go to pexels.com.
2. Search for a photo you like.
3. Right click on the photo and click on **Copy Image Address**. **This step is specific to Google Chrome.**
4. Return to index.html and replace the # sign on line 37 with the link you copied.

   Original: <img src='#'>

   Updated: <img src= 'https://images.pexels.com/photos/33109/fallautumn-red-season.jpg?auto=compress&cs=tinysrgb&h=750&w=1260'>

5. In the address you pasted, **delete** everything in the link after the image extension. In this case, the image extension is .jpg – delete everything after .jpg.

   Original pasted link:
   https://images.pexels.com/photos/33109/fallautumnredseason.jpg?auto=compress&cs=tinysrgb&h=750&w=1260

   Updated link:
   https://images.pexels.com/photos/33109/fallautumn-redseason.jpg

6. **Scroll to the bottom of the page and click the green Commit Changes button to save your changes.**

To view the changes in the browser, type **https://introwebdev101.github.io/aug28/firstname** and click enter.

You may need to refresh your browser cache to view changes

(CTRL+SHIFT+DEL)

CSS Updates

1. Return to Github.com. Go to the following address: **https://tinyurl.com/siouxfalls-staff**.
2. Open your folder, then open the css folder.
3. Open the '**style.css**' file and click the edit button to make the following updates:

1.Resize the divs and images in your index.html file by typing the following info starting on line 1:

```
div, img {        height:
   12em;   width: 12em;
   display: inline-block;
   margin: 1em;
}
```

2. Below your img and div updates, add the following to add a background color to your divs. Refer to your index.html file for color names from lines 21 and 22:

```
#red {
  background: red;
}
#green                {
background: green;
}
```

---

3. After your div background color updates, add the following to animate the background color of your divs:

```
@keyframes recolor { to
        {background: blue;}
} div
{
        animation: recolor 5s infinite alternate;
}
```

---

jQuery Updates

1. Return to Github.com.
2. Go to the following address: **https://tinyurl.com/siouxfalls-aug28.**
3. Open your folder.
4. Open the js folder.
5. Open 'script.js' and click the edit link then add the following content beginning on line 2 (excluding content in **bold**): **The following script will change the squares on your index.html page to circles:**

```
$("#rounded").click(function(){
  $("div").css({"border-radius":"10em"});
});
```

The following script will make a popup appear when you click on any content surrounded by a 'p' tag on your web page:

```
$("p").click(function(){
alert("A paragraph was clicked.");
});
```

The following script will change color of your content with 'p' tags when you click the 'Change Text' button (please change 'green' to any color you'd like):

```
$("#change").click(function(){
  $("p").css({"color":"green"});
});
```

The following script will hide 'divs' on the page when you click them:

```
$('div').click(function(){
        $(this).hide();
    });
```

The following script will alternate hiding and showing the image on the page when you click the 'hide' button:

```
$("#hide").click(function(){
  $("img").toggle();
});
```

Full jQuery Script

```
$(document).ready(function() {
  $("#rounded").click(function(){
  $("div").css({"border-radius":"10em"});
 });

  $("p").click(function(){
alert("A paragraph was clicked.");
 });

  $("#change").click(function(){
  $("p").css({"color":"green"});
 });

 $("#hide").click(function(){
  $("img").toggle();
 });

  $("div").click(function(){
  $(this).hide();
 });
});
```

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Live Site: https://introwebdev101.github.io/aug28/firstname (all lowercased)

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Additional Free Resources

Online Web Development and Related Courses:

1. LinkedIn Learning – free access to web development and other courses with your Sioux Falls Library Card. Check with Library staff for additional information. https://www.linkedin.com/learning-login/go/siouxlandlib
2. Codecademy – free online web development tutorials: https://www.codecademy.com/
3. FreeCodeCamp – learn to code for free. Opportunities to help nonprofits: https://learn.freecodecamp.org/ -

Code Snippets and Examples

1. w3schools- Great resource for getting stared with front end development: https://www.w3schools.com/
2. css-tricks - Tips and tricks for CSS. Great help forum: https://csstricks.com/
3. Codepen - Creative uses of jQuery, JavaScript, CSS: https://codepen.io/
4. Hex and other color codes - https://www.w3schools.com/colors/colors_picker.asp

Code Editors

1. Atom - Developed by Github: https://atom.io/ -
2. Brackets- lightweight, powerful: http://brackets.io/