Absolute Beginner's Guide to Web Development Lab Contents

Absolute Beginner's Guide to Web Development Workshop

Workshop Overview

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

Quick Points to Note

1. Sometimes, you will need to clear the browser cache for changes to appear, if this happens, you may need to log into Github again. The login info will be provided in the top right corner of every page of this document for this purpose.
2. Google Chrome is the best browser to use for this workshop.
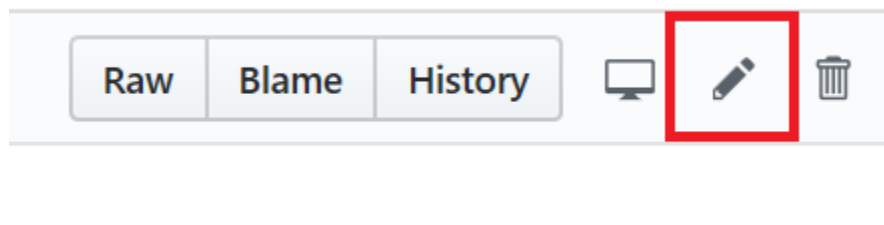3. Have fun and be patient – lots of new material and moving parts! 😊

Github Login

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

    username: shonnadorsey402

    password: Pass@word123!

3. Once you are signed in, type the following website address in the address bar and click **enter: tiny.cc/sept26**
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:

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 title you prefer

```
1   <!DOCTYPE html>
2   <html>
3     <head>
4       <meta charset="UTF-8">
5       <meta name="description" content="Training Website">
6       <meta name="keywords" content="HTML,CSS,JavaScript">
7       <meta name="author" content="Shonna Dorsey">
8       <meta name="viewport" content="width=device-width, initial-scale=1.0">
9
10      <title>My Page</title>
11
```

<body> section updates

1. Change the **<div>** color names on lines 21 – 24 to colors you prefer.
2. Update the **<p>** content on lines 28 and 29 to your own text.
3. Update the **<a>** tag on line 33 to refer to a web page you prefer.
4. Update the **<a>** tag and **<img>** tag on line 35 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
   1. Go to pexels.com.
   2. Search for a photo you like.
   3. Right click on the photo and click on **Copy Image Address**.
   4. Return to index.html and replace the # sign after the img src reference with the link you copied.
      > **Original:** <img src='#'>
      > **Updated:** <img src=' https://images.pexels.com/photos/33109/fall-autumn-red-season.jpg?auto=compress&cs=tinysrgb&h=750&w=1260'>
5. In the address you pasted, **remove** everything in the link after the image extension. In this case, the image extension is .jpg – delete everything after that.

   > **Original pasted link:** https://images.pexels.com/photos/33109/fall-autumn-red-season.jpg?auto=compress&cs=tinysrgb&h=750&w=1260

   > **Updated link:** https://images.pexels.com/photos/33109/fall-autumn-red-season.jpg

5. **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 tiny.cc/sept26/<mark>YourFirstName</mark> and click Enter

CSS Updates

Return to Github.com. Go to the following address: tiny.cc/sept26. Click on your folder name and click on the css folder. Open style.css and click the edit button to make the following updates:

1. Add the following <div> content to the CSS document for each of your divs:

    ```
    #pink {
            color: pink;
    }
    ```

    Find hex codes if you'd like custom colors at the following link:
    http://tiny.cc/color-picker

2. Animate <div> content:
    1. Within the div selector, add

        ```
        animation: recolor 5s infinite;

        @keyframes recolor {
                to {background: green;}
        }
        ```

jQuery Updates

Return to Github.com. Go to the following address: tiny.cc/sept26. Click on your folder name and click on the js folder. Open script.js and click the edit and make the following changes:

Between:

Line 1: $(document).ready(function(){

Line 3: });

Add the following:

```
$('#round-corners').click(function(){

 $('div').css({'border-radius':'10em'});

});

 $('#text').click(function(){

 $('#custom-paragraph').css({'background-color':'yellow'});

});
```

4

Absolute Beginner's Guide to Web Development Lab

Lab Overview

During this lab, you will use Github Pages to create a live, working website you can access from any device. By working through the steps in this lab, you will create a website from scratch using the tools and technologies discussed in the introduction to web development workshop.

The page we will be building for this section of the workshop will feature an animated CSS button that when clicked, changes the entire look and feel of the page (we will use jQuery to achieve this outcome).

Equipment and Implementation Requirements

- Testing devices (laptop, smartphone)
- Recommended browser - Google Chrome

Let's get started!

Update <body>

1. Delete all content between the opening and closing <body> tags
2. Add two divs with IDs. Set the IDs to colors of your choice.
   Example:
   <div id='red'></div>
   <div id='yellow'></div>

3. Add two photos to the page using <img src='#' alt='IMAGE DESCRIPTION'>

   How to Add an Open Source Image from pexels.com

   1. Go to pexels.com.
   2. Search for a photo you like.
   3. Right click on the photo and click on **Copy Image Address**.
   4. Return to index.html and replace the # sign after the img src reference with the link you copied.

      Original: <img src='#'>
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      https://images.pexels.com/photos/33109/fall-autumn-red-season.jpg?auto=compress&cs=tinysrgb&h=750&w=1260'>
   5. In the address you pasted, <mark>remove</mark> everything in the link after the image extension. In this case, the image extension is .jpg – delete everything after that.

      Original pasted link:
      https://images.pexels.com/photos/33109/fall-autumn-red-season.jpg<mark>?auto=compress&cs=tinysrgb&h=750&w=1260</mark>

      Updated link: https://images.pexels.com/photos/33109/fall-autumn-red-season.jpg

4. Add a button to your page using <button>INSERT BUTTON TEXT</button>
5. Add two hyperlinks to the page using INSERT LINK TEXT
6. Add two paragraphs of text to the page using <p> tags. Make sure one of your paragraphs has an id. Example: <p id='green-paragraph'>INSERT TEXT</p>

<mark>Commit changes and review your work at **tiny.cc/sept26/yourname**</mark>

Update Your CSS File

1. Update all pictures to be 10em x 10em using the height and width properties. Example:

```
img {
        height: 10em;
        width: 10em;
}
```

2. Remove all formatting from hyperlinks until you hover over them. Example:

```
a {
        text-decoration: none;
}
```

3. Add an underline and background color when the user hovers over the link:

```
a:hover {
        text-decoration: underline:
        background: yellow;
}
```

4. Change the height and width of all divs, make sure they display next to each other and add an animate selector:

Example:

```
div {
        height: 10em;
        width: 10em;
        background: INSERT COLOR;
        display: inline-block;
        animate: recolor 5s infinite;
}
```

5. Update your custom IDs to custom background colors.

Example in HTML: `<div id='red'></div>`

Example in CSS:

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

6. Set your div animations:

Example:

```
@keyframes recolor {
        to {background: INSERT COLOR;}
}
```

Commit changes and review your work at tiny.cc/sept26/yourname

Update your jQuery file

1. Make it so that when the user clicks on the button the page, the images disappear.

   Example in jQuery:

   ```
   $(document).ready(function(){
           $('button').click(function(){
           $('img').hide(){
           });
   });
   ```

2. Change the background color of the page when the user clicks on the 'Page Recolor' button

   ```
   $(document).ready(function(){
           $('#img-hide').click(function(){
           $('img').hide(){
           });

           $('page-recolor').click(function(){
           $('body').css({'background-color': 'INSERT COLOR'});
           });
   });
   ```

Commit changes and review your work at tiny.cc/sept26/yourname

Additional Resources

Free online coding courses:

https://www.codecademy.com/ - Codecademy – free online web development tutorials

https://learn.freecodecamp.org/ - FreeCodeCamp – learn to code for free. Opportunities to help nonprofits.

Code Snippets

https://codepen.io/ - creative uses of jQuery, JavaScript, CSS

https://css-tricks.com/ - tips and tricks for CSS. Great help forum.

https://www.w3schools.com/ - excellent resource for front end development

Code Editors

https://atom.io/ - Developed by Github.

http://brackets.io/ - lightweight, powerful