

Absolute Beginner's Guide to Web Development

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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. Google Chrome is the best browser to use for this workshop.
2. Sometimes, you will need to clear the browser cache for changes to appear (CTRL+SHIFT+DEL), if this happens, you may need to log into Github again. The login info will be provided in the top section every page of this document for this purpose. Also, please uncheck the box that says **Clear Cookies and Other Site Data**.

Github URL: <http://tiny.cc/nov7-files>

Username: mooweb

Password: Pass@word123!

Live Workshop Site Link: tiny.cc/nov-7/firstname

Live Lab Site Link: tiny.cc/nov-7/firstname/lab/index.html

Clear browsing data

Basic Advanced

Time range Last hour ▼

☒ Browsing history
Clears history and autocompletions in the address bar.

☐ Cookies and other site data
Signs you out of most sites. You won't be signed out of your Google Account.

☒ Cached images and files
Frees up less than 356 MB. Some sites may load more slowly on your next visit.

Cancel Clear data

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

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Username: mooweb

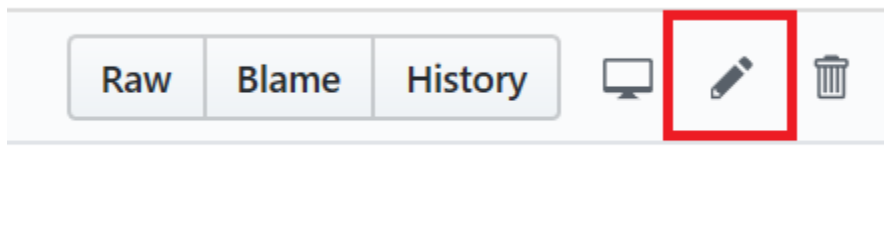
Password: Pass@word123!

Live Workshop Site Link: tiny.cc/nov-7/firstname

Live Lab Site Link: tiny.cc/nov-7/firstname/lab/index.html

Github Login

1. Go to github.com
2. Sign in with the following username and password
username: mooweb
password: Pass@word123!
3. Once you are signed in, type the following website address in the address bar and click **enter**: <http://tiny.cc/nov7-files>
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:



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Username: mooweb

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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 and 22 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 34 to refer to a web page you prefer.

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4. Update the **** 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: ``

Updated:

`<img`

`src='<a href="https://images.pexels.com/photos/33109/fall-autumn-red-`

`season.jpg?auto=compress&cs=tinysrgb&h=750&w=1260'>`

Github URL: <http://tiny.cc/nov7-files>

Username: mooweb

Password: Pass@word123!

Live Workshop Site Link: tiny.cc/nov-7/firstname

Live Lab Site Link: tiny.cc/nov-7/firstname/lab/index.html

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-](https://images.pexels.com/photos/33109/fall-autumn-red-season.jpg)

[season.jpg?auto=compress&cs=tinysrgb&h=750&w=1260](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/nov-7/firstname/ and click Enter

CSS Updates

Return to Github.com. Go to the following address:

tiny.cc/oct10-files. Click on your folder and click on the css folder. Open style.css and click the edit button to make the following updates:

Github URL: <http://tiny.cc/nov7-files>

Username: mooweb

Password: Pass@word123!

Live Workshop Site Link: tiny.cc/nov-7/firstname

Live Lab Site Link: tiny.cc/nov-7/firstname/lab/index.html

1. Add the following content to the CSS document:

Resize the divs and images:

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

2. Animate your divs

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


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Username: mooweb

Password: Pass@word123!

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3. Change the background color of your divs:

```
#red {  
  background: #ff0000;  
}  
#green {  
  background: #00cc44;  
}
```

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

To view the changes in the browser,

type **tiny.cc/nov-7/firstname/** and click Enter

Github URL: <http://tiny.cc/nov7-files>

Username: mooweb

Password: Pass@word123!

Live Workshop Site Link: tiny.cc/nov-7/firstname

Live Lab Site Link: tiny.cc/nov-7/firstname/lab/index.html

jQuery Updates

Return to Github.com. Go to the following address:

tiny.cc/oct10-files. Click on your folder name and click on the js folder. Open script.js and click the edit and make the following changes:

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

Line 2: `$('#rounded').click(function(){`

Line 3: `$('#div').css({'border-radius':'10em'});`

Line 4: `});`

Line5: `$('#p').click(function(){`

Line 6: `$('#custom').css({'background-color':'yellow'});`

Line 7: `});`

Line 8: `});`

To view the changes in the browser,

type **tiny.cc/nov-7/firstname/** and click Enter

Github URL: <http://tiny.cc/nov7-files>

Username: mooweb

Password: Pass@word123!

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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!

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Add Content to <body>

1. After the opening <body> tag, add two divs with IDs. Set the IDs to colors of your choice.

Example:

```
<div id='red'></div>
```

```
<div id='yellow'></div>
```

2. Add two photos to the page using. Type the following placeholder info on the line immediately below the divs described on number 1:

[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**.

Github URL: <http://tiny.cc/nov7-files>

Username: mooweb

Password: Pass@word123!

Live Workshop Site Link: tiny.cc/nov-7/firstname

Live Lab Site Link: tiny.cc/nov-7/firstname/lab/index.html

4. Return to index.html and replace the # sign after the img src reference with the link you copied.

Original: ``

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`

Github URL: <http://tiny.cc/nov7-files>

Username: mooweb

Password: Pass@word123!

Live Workshop Site Link: tiny.cc/nov-7/firstname

Live Lab Site Link: tiny.cc/nov-7/firstname/lab/index.html

3. Add a button to your page using `<button>Click Here!</button>`
4. Add two hyperlinks to the page using `INSERT LINK TEXT`
5. 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>`

Commit changes and review your work at tiny.cc/nov-7/firstname/lab/index.html

Add Content to Your CSS File

1. Open the style.css file in the css folder
2. Update all pictures to be 10em x 10em using the height and width properties. Example:

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

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

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

Github URL: <http://tiny.cc/nov7-files>

Username: mooweb

Password: Pass@word123!

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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 animate the divs with a background color:

Example:

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

5. Update your custom IDs to custom background colors.

Example in index.html: `<div id='red'></div>`

Example in CSS:

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

Github URL: <http://tiny.cc/nov7-files>

Username: mooweb

Password: Pass@word123!

Live Workshop Site Link: tiny.cc/nov-7/firstname

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6. Set your div animations:

Example:

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

7. Add a media query to change the background color on the page when it is narrower than 600px wide:

```
@media only screen and (max-width: 600px) {  
  body {  
    background-color: green;  
  }  
}
```

Commit changes and review your work at tiny.cc/nov-7/lab/firstname/index.html

Add Content to Your jQuery File

1. Make it so that individual divs disappear when the user clicks on them.

Example in jQuery:

```
Line 1: $(document).ready(function(){  
Line 2:   $('div').click(function(){  
Line 3:     $(this).hide();  
Line 4:   });
```


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Username: mooweb

Password: Pass@word123!

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2. Change images to circles when the user clicks them (add this right below the first function):

Line 5: `$('#img').click(function(){`

Line 6: `$('#body').css({'border-radius': '100px'});`

Line 7: `});`

Line 8: `});`

**Commit changes and review your work at
tiny.cc/nov-7/lab/firstname/index.html**

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Password: Pass@word123!

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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