

GE-04 Documentation

General

Everyone created and made their own versions of the GE-04. Everyone worked separately and got help when needed.

There were no issues. No one needed any help with the assignment.

Everyone turned in their version of GE-04 into Canvas before the due date. (10/9/23 at 11:59PM).

Scrum Coach: Justin R.

Tech Lead: Robert Berg

Team Members: Scott Rytting , Chris Colvin

Basics of HTML Tags

Html tags are like keywords where they are predetermined arguments to determine certain actions.

Some examples are:

`<!DOCTYPE>` : Specifies the document type.

`<html>` : Defines the root of the document as an HTML document.

`<body>` : Defines the document's body. Contains the visible content of the webpage (text, images, links, etc.)

`<h#>` : Defines different headings with varying levels. `<h1>` is the highest with `<h6>` being the lowest. `<h6>` is a subheading of `<h5>`, which is a subheading of `<h4>` and so forth until `<h1>` being the highest.

`<p>` : Defines a paragraph of text.

``: Defines font, color, and size of text. (Not supported in HTML 5)

`` : Defines an ordered (numbered) list.

`` : Defines an unordered (bulleted) list.

`` : Defines a list item within ``

Basics of HTML Forms and Attributes

Forms:

Can be used to get information from users. (Name, address, gender, etc.)

Can be used to give visual feedback to the user's actions. (Checking checkboxes, filling radio buttons, etc.)

`<form>`

It is a container for different types of element (text fields, checkboxes, submit buttons, etc.)

Attributes:

Additional pieces of information are added onto HTML elements to modify their behavior and/or appearances.

Some Examples:

href Attribute: Defines a hyperlink for a URL.

src attribute: Defines a path for an image.

Action Attribute: Defines what action is being performed when form is submitted. (What happens when the action is performed)

Target Attribute: Specifies where to display the response from the form. (New window/tab, current window, etc.)

Method Attribute: Specifies the HTTP method to be used when submitting the form. (get, post, put, head, delete, patch, etc.)

Basics of CSS

Div tags:

Defines a division or a section.

A container for HTML elements which can be stylized in CSS.

Class selectors:

Selects elements with the same class attribute which can be stylized in CSS.

6 Design Practices for Website Accessibility

Design Practice	Who it can help
Clear and Concise Words	Visual Impaired / Autistic Spectrum
No blocks of texts	Dyslexia / Autistic Spectrum
Captions and Subtitles	Deaf or Hard of hearing
Good color contrast	Low Vision / Color blindness
Images to support text	Dyslexia / Visual Impaired
Linear layout	Deaf or Hard of hearing / Visually Impaired

Web accessibility is a website that is accessible and appeals to those with disabilities such color blindness, hearing loss, photosensitivity, epilepsy, etc.

It is important to have good web accessibility because if a website is not easily/readily available or pleasing, then the user will not use the website or despise using it.

Responsive Web Design

<https://www.smashingmagazine.com/2011/01/guidelines-for-responsive-web-design/>

<https://www.browserstack.com/guide/how-to-create-responsive-website>

Responsive design is how the website reacts to the user's actions.

Examples:

User hovers over a button and it changes color or moves a little.

User clicks a button to submit credentials and a new page opens approving that the credentials were successfully submitted.

The user is waiting for task to be finished and has a progress bar to view how much time is estimated left.

Bootstrap Information

Containers: https://www.w3schools.com/bootstrap5/bootstrap_containers.php

Used to pad the content inside of them. Used maintain a consistent and organized layout of the website.

Colors: https://www.w3schools.com/bootstrap5/bootstrap_colors.php

Used to separate and indicate different importance levels or information.

Lists: https://www.w3schools.com/bootstrap5/bootstrap_list_groups.php

Use to keep organization via a list.

Dropdowns: https://www.w3schools.com/bootstrap5/bootstrap_dropdowns.php

A toggleable menu that allows the user to choose from a list.

Navigation menu: https://www.w3schools.com/bootstrap5/bootstrap_navs.php

Used to help the user navigate to common or important sections which are not shown on the current page.

Buttons : https://www.w3schools.com/bootstrap5/bootstrap_buttons.php

An interactable and clickable button.

Spinner Buttons:

Gives feedback to the user that something is happening from clicking the button.

Latest Code for GE-04

```
{% load static %}

<!DOCTYPE html>

<html>

<head>

<meta name="viewport" content="width=device-width, initial-scale=1">

<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.min.css">

<body style="background-color:black;">
<style>

/* Set colors for headers */

    /* Need to set color for p, and ul because the color
    gets set for everything after header colors */
    h1
    {
        color: orange;
    }

    h2
    {
        color: orange;
    }

    p
    {
```

```
        color: white;
    }

    h3
    {
        color: orange;
    }

    ul
    {
        color: white;
    }

    h4
    {
        color: orange;
    }

    /* Creating div elements */

    .div1
    {
        border: 5px outset teal;
        background-color: brown;
        text-align: center;
    }

    /* Creating Projects class */
    .projects
```

```
{
    background-color: yellow;
    text-align: center;
}

body
{
    font-family: Arial, Helvetica, sans-serif;
}

/* Navbar */
.navbar
{
    overflow: hidden;
    background-color: #333;
}

.navbar a
{
    float: left;
    font-size: 14px;
    color: white;
    text-align: center;
    padding: 14px 16px;
    text-decoration: none;
}

/* Navbar Image */
```

```
.navbar img
{
    float: left;
    margin-right: 10px;
}

/* Navbar Dropdown */
.dropdown
{
    float: left;
    overflow: hidden;
}

.dropdown .dropbtn
{
    font-size: 16px;
    border: none;
    outline: none;
    color: white;
    padding: 14px 16px;
    background-color: inherit;
    font-family: inherit;
    margin: 0;
}

.navbar a:hover, .dropdown:hover .dropbtn
{
    background-color: green;
}
```

```
.dropdown-content
{
  display: none;
  position: absolute;
  background-color: #f9f9f9;
  min-width: 160px;
  box-shadow: 0px 8px 16px 0px rgba(0,0,0,0.2);
  z-index: 1;
}
```

```
.dropdown-content a
{
  float: none;
  color: black;
  padding: 12px 16px;
  text-decoration: none;
  display: block;
  text-align: left;
}
```

```
.dropdown-content a:hover
{
  background-color: #ddd;
}
```

```
.dropdown:hover .dropdown-content
{
  display: block;
}
```

```

}

/* Button class*/
.button
{
    background-color: yellow;
    border: none;
    color: purple;
    padding: 10px 15px;
    text-align: center;
    text-decoration: none;
    display: inline-block;
    font-size: 16px;
    margin: 4px 2px;
    cursor: pointer;
}
</style>
</head>
<body style="background-color:white;">

<!-- Navbar -->
<div class="navbar">
    
    <a href="#home">Home</a>

    <div class="dropdown">
        <button class="dropbtn"> Account
            <i class="fa fa-caret-down"></i>
        </button>

```

```

    <div class="dropdown-content">
        <a href="#">Sign In</a>
        <a href="#">Sign Up</a>
    </div>
</div>
</div>

<!-- Header -->
<h1> <font size = "7"> My Portfolio </font> </h1>

    <!-- Name and Degree -->
    <p> <font size = "5">
        Robert Berg<br>
        <a href="https://programfinder.uccs.edu/programs/computer-science-bs">
Bachelor of Science in Computer Science </a>
    </p> </font>
</h1>

    <!-- Summary Statement -->
    <h2> <font size = "5">
        Summary Statement: <br>
    </font>
    <h2>
        <p>
            <font size = "2">
                Student at the University of Colorado, Colorado Springs (UCCS). <br>
                Experience in various coding languages such as C++, Java, Python, and R.
<br>
                Hobbies are rock climbing, fixing vehicles, and playing video games.

            </font>
        </p>
    </h2>

```



```
<!-- Technical skills list -->
<h3> <font size = "5"> Technical Skills </font> <h2>

    <font size = "2">
    <ul>
        <li> Programming/Coding </li>
        <li> Web Development </li>
        <li> UX Development </li>
    <ul>
</font>
<h3>

    <br>
<!-- Div tag -->
<div class="div1">

    <h4>
        Projects: <br>
        <!-- Classes -->

        <!-- Link Buttons following the " projects " class -->
        <button class="button" onclick="">Project 1</button>
        <button class="button" onclick="">Project 2</button>
        <button class="button" onclick="">Project 3</button>

    <h4>
```

```
    </div>
{% block content %}
{% endblock %}
</body>
</html>
```