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Web Design and Development 4COSC011W

Report

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Link(s) to Website

URL: https://w1761350.users.ecs.westminster.ac.uk/

Contents

1 Introduction

Our group consists of four members. Namely, Shadim Aboobhaida taking student one, Charani Hasara taking student two, Nethmi Sachindi taking student three. We selected to work on one of our most passionate topics, Cinematography.

2 Technical Discussion

i) Image Gallery

My image gallery consists of a simple colour changing background, a navigation bar, a page footer and fields that allow the user to select a preferred text colour as well as a background colour.

a) Creating two different screen divisions to allow user to select the image in one division and view it in another

- Using div tags and css, I made two divisions in the page.

  The css:

```css
.container{
    width: 80%;
    margin: auto;
}
.leftDiv{
    background-color:rgba(255,255,255,0.5);
    float:left;
    width:13%;
}
.centerDiv{
    background-color:rgba(255,255,255,0.5);
    float:right;
    width:86%;
}
```

The html code snippet to make two divisions:

```html
<div class="container">
    <div class="leftDiv">
        <!------------------------
        <div class=row>
            <div class=column>
                <img id="firstFilm"
            </div>
            <div class=column>
                <img id="starWars" 
            </div>
            <div class=column>
                <img id="superMan" 
            </div>
            <div class=column>
                <img id="toyStory" 
            </div>
            <div class=column>
                <img id="avatar" src
            </div>
        </div>
    </div>
    <div class="centerDiv">
        <h3 id="image-description">
        <img id="image-preview" clas
    </div>
</div>
```

Using this code, I created a container in the background and with a limited spacing to restrict the divisions into a specific limit.

Thus, the final result was as follows:

The first division:

The second division for the view image:

- To select these images i used an internal javascript file to select the images in the division

```
function show(img,txt){
    var image= document.getElementById("image-preview");
    var text= document.getElementById("image-description");
    image.src=img.src;
    text.innerHTML=txt;
}
:ript>
```

The effect it does on this is:

Default screen
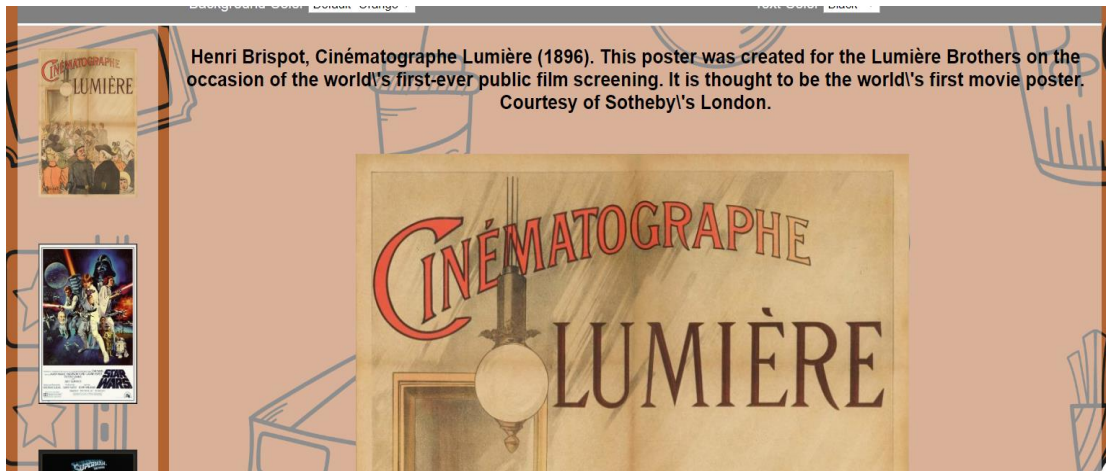
After selection
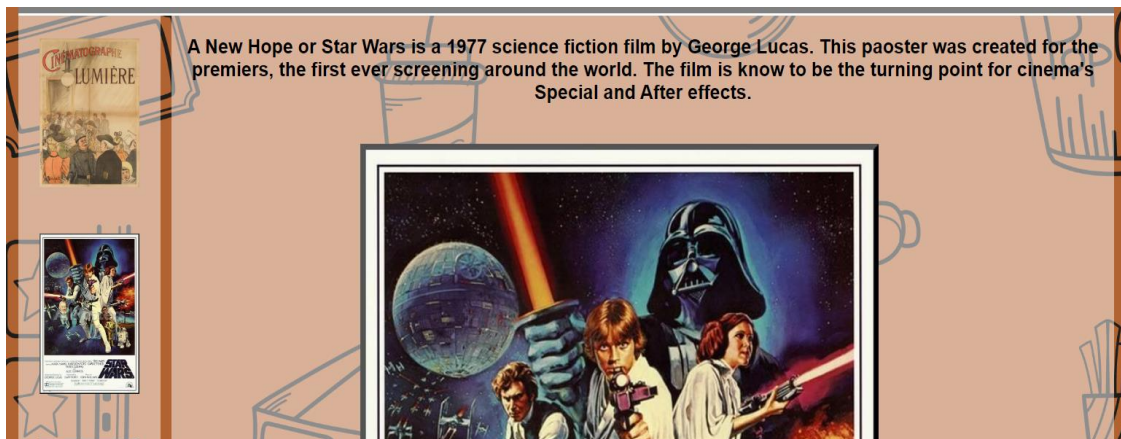
- I also used a css style to imply a shadow effect on my images.

Css File

```
-}
.images1{
    width:100%;
    transition: box-shadow 0.3s;
-}
.images1:hover{
    box-shadow: 0 0 20px white;
-}
.image-preview{
    height: 120%;
```

On Hover

b) Creating a dropdown to allow users to select a background colour and a text colour

The html code:

```html
<form name="menuForm">
    <div class="menuCard">
        Background Color
        <select name="BackgroundColor" id="BackgroundColor" onchange="backgroundColor(this)">
            <option value="#b26332">Default- Orange</option>
            <option value="#217bb2">Blue</option>
            <option value="#E54AA1">Pink</option>
            <option value="#60b23d">Green</option>
            <option value="#656764">Grey</option>
        </select>
    </div>
    <div class="menuCard">
        Text Color
        <select name="TextColor" id="TextColor" onchange="textColor(this)">
            <option value="#000000">Black</option>
            <option value="#FFFFFF">White</option>
            <option value="#000080">Navy</option>
            <option value="#890B74">Purple</option>
        </select>
    </div>
</form>
```
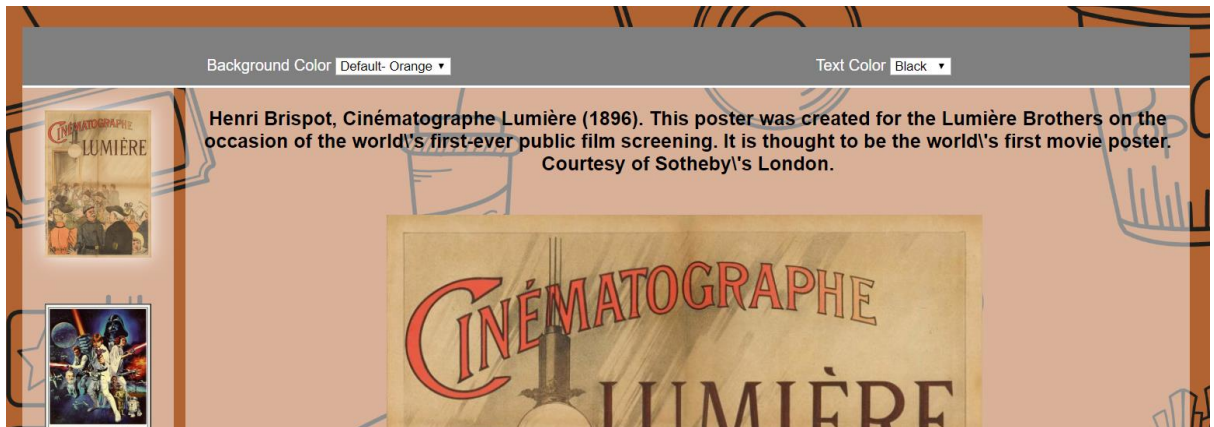
This html code a creates two dropdowns on my html code, to allow the user to select a background out of orange, blue, pink, green and grey. I also allow them to select a text colour between black, white, navy and purple.

The CSS code:

```css
.menuCard{
    width: 50%;
    float: left;
    position: relative;
}
menuCard:hover{
    box-shadow: 10px 10px 5px white;
}
```

The javascript:

```javascript
:ipt>
function backgroundColor(color){
    document.getElementsByTagName("body")["body"].style.backgroundColor=color.value;
}

function textColor(color){
    document.getElementsByTagName("body")["body"].style.color=color.value;
}
```

The javascript file edits the background colour and the text colour.

Results:

Selection for background colour:
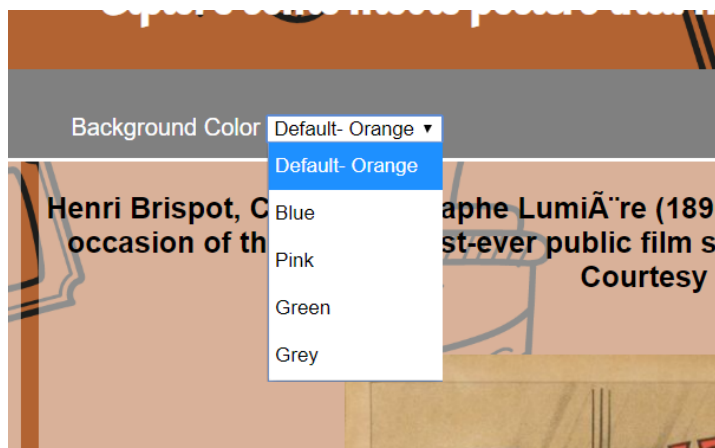
Selection for text colour:
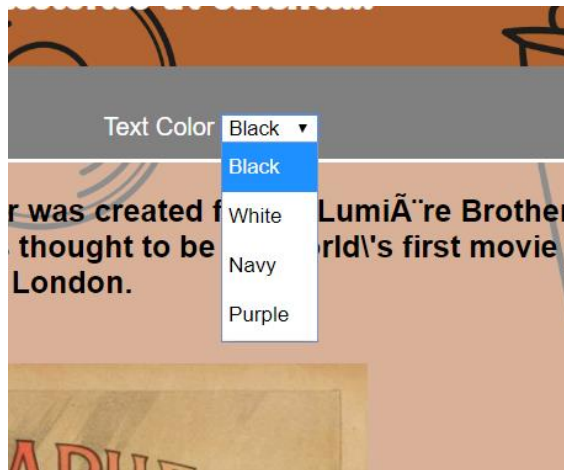
After changing background colour:
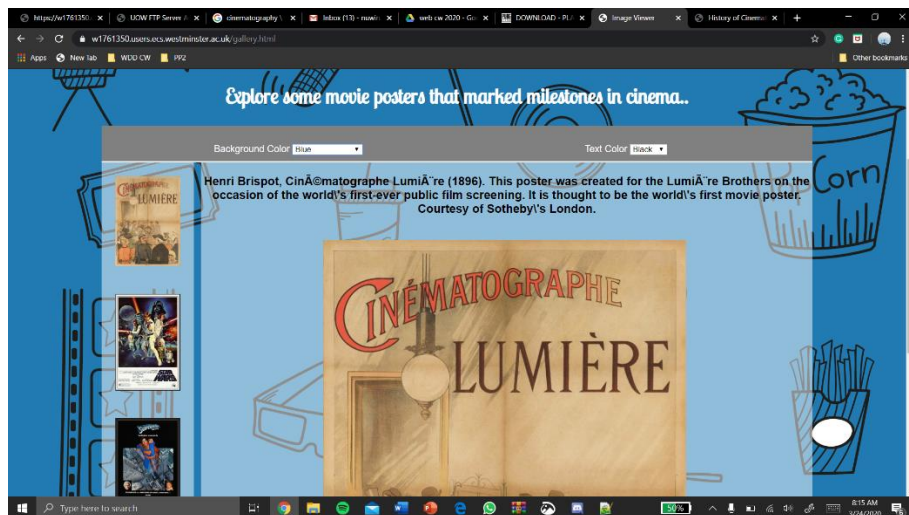
After changing text colour:
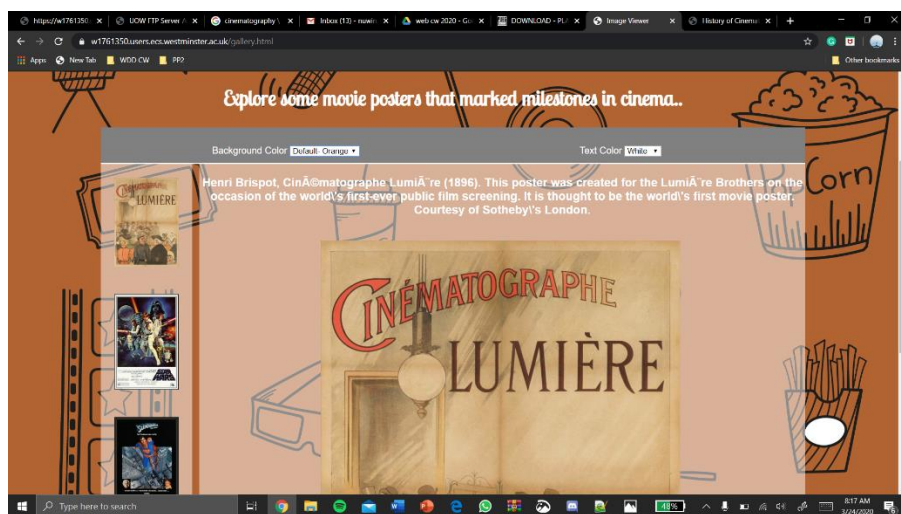
ii) **Site Map**

My site map consists of the common navigation bar, an SVG drawn map, links to all webpages and my footer with reference to my personal webpage.

a) Creating SVG mapping using SVG lines, rectangles and circles.

HTML Code:

```
<svg width="100%" height="850" class="main">

    <line class="line" x1="730" y1="90" x2="730" y2="135" />

    <line class="line" x1="732" y1="230" x2="732" y2="270" />
<g onclick="location.href='index.html'" class="object">
    <rect class="box" x="627" y="10" width="200" height="65" />
    <text class="text" x="653" y="47">Presentation page</text>
</g>

<g onclick="location.href='student1cv.html'" class="object">
    <circle class="circle" cx="142" cy="560" r="53"/>
    <text class="text" x="115" y="565">Shadim</text>
</g>
```

This code snippet, combined with more of its kind (ref. appendix) allows me to create a full mapping using SVG. I've drawn lines using the Line SVG, rectangles using Rectangle SVG and circles using the Circle SVG.
CSS code:

```
.circle{
    fill: #b5b5b5;
    stroke-width:4;
}
.box{
    fill: #cccbcc;
    stroke-width:6;
    cursor: pointer;
    transition: 0.3s;
}
.line{
    stroke: #b26332;
    stroke-width: 7;
}
```

Result:

My css used for the SVG items using classes allow the lines, rectangles and circles to be coloured the way I wish for them to be, so that they go in-touch with the theme colours.

b) Adding hover effects and navigating the user to other parts of the webpage

- Creating hover effects and changing user experience

CSS code:

```css
.circle:hover{
    fill: #b26332;
}
.box:hover{
    fill: #b26332;
}

.object:hover{
    fill: #ffae85;
    stroke: #b26332;
    cursor: pointer;
}
```

I have used the css hover property to show a colour change in the rectangles, circles and text fields.

Result:

- Adding links to navigate around the website

HTML Code:

```
<g onclick="location.href='index.html'" class="object">
    <rect class="box" x="627" y="10" width="200" height="65" />
    <text class="text" x="653" y="47">Presentation page</text>
</g>

<g onclick="location.href='student1cv.html'" class="object">
    <circle class="circle" cx="142" cy="560" r="53"/>
    <text class="text" x="115" y="565">Shadim</text>
</g>
```

This html code snippet adds a href tag which is the tag that refers to calling a reference inside an object. This html makes a certain href to be triggered as soon as its linked object is clicked/ selected.

iii) **Personal Webpage- History of cinematography**

My personal webpage consists of a navigation bar, footer, feedback form and navigate buttons.

a) Navigate Buttons

HTML code:

```
<section class="select">
    <button class="selection" onclick="location.href='#mainBody'">Find more about the history of Cinematography..</button>
    <button class="selection" onclick="location.href='#footer'">Move to End..</button>
</section>
```

This code snippet allows me to create two buttons and have referencing to different places in my webpage in it. I have also styled the buttons using my external css file (ref. appendix) and given it a hover effect to resize in hover.

CSS code:

```
.selection{
    text-decoration: none;
    padding: 13px 32px;
    margin: 6px 17px;
    color: #ffffff;
    background-color: #14335d;
    display: inline-block;
    border-radius: 2px;
    cursor: pointer;
}

.selection:hover{
    box-shadow: rgba(0,0,0,0.19);
    background-color: #20475d;
    transition:  all 0.4s ease 0s;
    letter-spacing: 1px;
    border-radius: 50px;
}
.select{
    display: inline-block;
    transition: vertical-align;
}
```

Result:

b) <u>Feedback Form</u>

HTML Code:

```
<div class="feedback">
    <h3>We would love some Feed back from you!</h3>
    <p>Please let us know whether you liked our Web-Page, and what you think..</p>
    <textarea
        id = "myTextArea";
        rows = "3";
        cols = "80"></textarea>
    <br>
    <button class="direct" type="submit">Submit</button>
</div>
```

This code snippet allows me to create a division in my webpage and have special css properties for it. The user would be presented with a text box and a submit button to write and submit information.

CSS code:

```
.feedback{
    font-family: 'PT Sans Narrow', sans-serif;
    background-color: #20475d;
    padding: 0.5em 3em 2em 5em ;
    color: white;
}
```

Result:

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--14
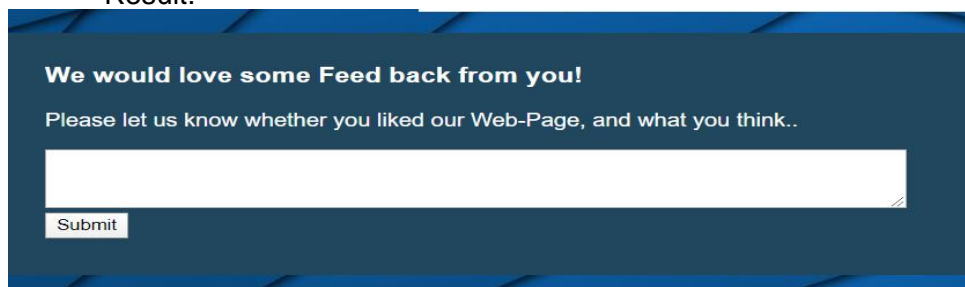
3 Discussion of UI and application of UX principles

3.1 Information architecture

a. Design

The theme and the design of the website was to keep the websites as simple and charm as possible. Our theme colour, black and orange were chosen specially to help in this regard. As breadcrumbs we do not style the css or change the navigation bar, but we prominently state the heading of the page the user is on in each webpage.

HTML Code for navigation bar:

```html
<div class="headerH1">
    <img id="logoH1" src="images/logopng.png" alt="logo" >
    <div id="navigationbar">
        <ul>
            <li><a href="team.html">Team</a></li>
            <li> <a href="gallery.html">Gallery</a></li>
            <li> <a href="siteMap.html">Sitemap</a></li>
            <li> <a href="quiz.html">Quiz</a></li>
            <li> <a href="products.html">Product</a></li>
            <li> <a  href="home.html">Home</a></li>
        </ul>
    </div>
</div>
```

CSS code:

```css
.headerH1{
    background:black;
        min-height: 130px;
    }
/*for the logo*/
 #logoH1{
        width:200px;
        height:100px;
 /*to the navigation bar*/      }
 #navigationbar{
        float:right;
        text-align: center;
        padding: 25px;
        text-decoration: none;
        font-size: 20px;
        border-right: 2px solid black;
}
/*to modify the navigation bar*/
 li{
   float:right;
   }

 li a:hover{
    background-color:#FBBF2A;
    }
    /*transitions to increase the smoothness of the website*/
 li a{
    transition: 0.3s;
    display:block;
    color:white;
        padding:14px 16px;
    text-decoration:none;
    text-align:center;
    }

footer{

    margin-top:200px;
    left: 0;
    bottom: 0;
    width: 100%;
    background-color: orange;
    text-align: center;
}
```

To cop-up with the theme for the website, we created a single style sheet for the navigation bar, to be used in everyone's codes.

A hover effect has been added so that each time the user hovers over a specific link, the linked buttons will be shone in the theme colours with a transitioning to smoothen the hover effects.
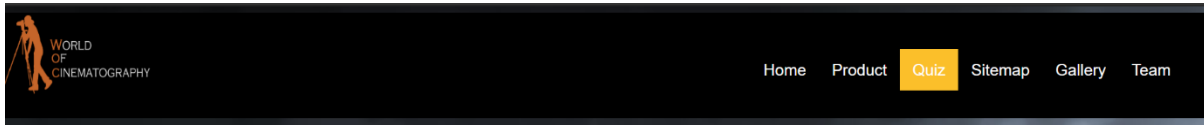
Additionally, to cop-up with the theme in the webpages we developed, all of us got together on a day and downloaded and decided which backgrounds to use, where and select colours to go with it.
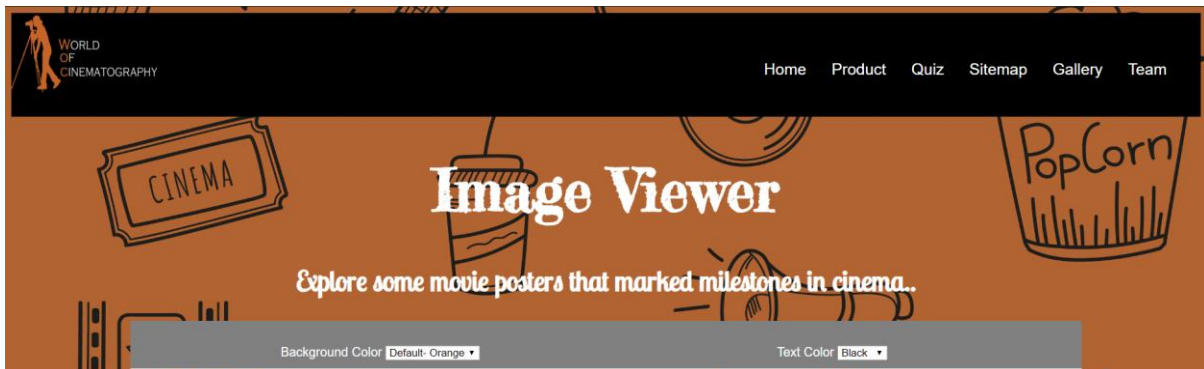
b. Code to achieve good Information architecture

For my personal webpage, I developed an informative web-interface in regard of history of cinematography. I see no better example to explain the use of information architecture. Thus, the web-page has to be extremely colour and scene effective to have readability as high as possible. However, since I also had to have some visual beautifications to the webpage as well, I created a division on the screen with constrained margins to help reduce screen span, which also improves readability.

3.2 Colour balance/composition/graphics/consistency

a. Design

Colour Balance- the theme colours have been used finely and effectively where-ever possible and allowing the text to flow through and be more prominent in the background.

Composition- according to the site map and the poster gallery, the composition is considerable fine, and test-run screen readers successfully read the screen as required.

Graphics- in the sitemap, graphics content it considerably high, but equally and comfortably distributed. In the poster gallery, graphics have only been used where necessary to enable the reader to read comfortably.

Consistency- the navigation bar and its style sheet are the same for all four members, myself included. In addition, the same font has been used throughout all the pages.

b. Code to achieve good colour balance & ensure consistency

The navigation bar- the standard colour scheme is used as the background colour for the navigation bar and the secondary color as the button hover

Body- in regard to the gallery in my codes, I have used distinguished colours to showcase text, aswell as to create minor screen divisions.

c. Colour contrast test results

Gallery

Personal Webpage

3.3 Typography / consistency

a. Design

I imported some fonts from Google Fonts (https://fonts.google.com/) to gain some personalized fonts that are not too fancy and belong to the families Cursive and sans-serif. Adding, I only used these imported fonts only on headings and lines that must be showed prominently. Thus, the user wont have to keep looking at fancy text fonts throughout the webpages.

THE HUMBLE BEGINNING..

In 1891, the Edison Company in USA created a prototype of the Kinetoscope (a machine that runs a film and projects it to a screen through a bring white light), allowing a single person to to view moving pictures at a time. In 1895, the Lumier Brothers took up the challenge to present projected moving pictures to an paying audience. This made a revelation in the history of cinematography, significantly marking the first theater show.

The first films were very short. Mostly, at maximum lasted for no more than a few minutes. They were screened at opera halls, fairgrounds and any other place where darkening the room

For the historyOfCinematography.html I've used 'Bungee Inline' which is a font that belongs to the 'Cursive' font family, is only used as headings. Sans-serif which is noted as the font with the best readability till now, is used for all the normal texts.

I have also used larger font sizes when it comes to headings and goes reducing according to the sub level. However, throughout the website, the same levels of text size has been adhered to.

b. Code to achieve good typography / consistency

0

3.4 Gestalt principles grouping

- **Proximity**

As proximity states in the gestalt rules, "objects or shapes that are close to one another appear to form groups". This principle is clearly followed in the gallery.html webpage.
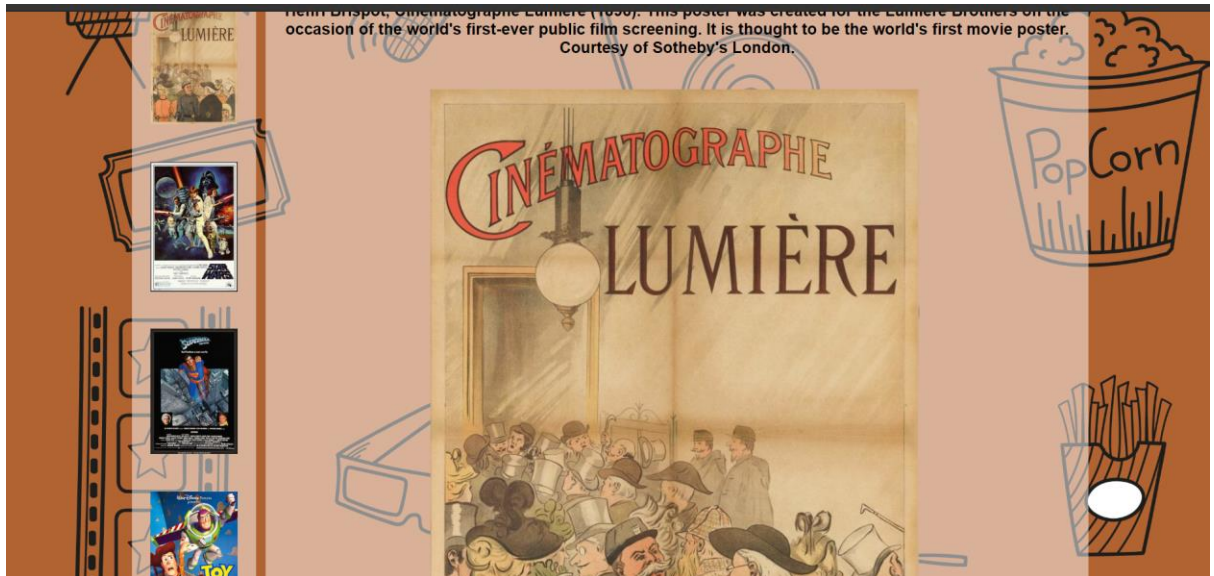
The column on the left corner tend to be closer to the vertical images in its same screen division, and seems a far from the main image in the center. Thus its identifiable that the column on the left is one class and the one in the center is a standalone.

- **Similarity**

As similarity states in the gestalt rules, the principle has been clearly used in the siteMpa.html

The third row of rectangles have a sense of belonging, with a sense that they relate to each other or has values of the same class. Likewise, in the third row, I have only included references to each student's contribution to the main website. Then in the fourth row, the columns 1,2,3 and 4 have circles, where holds the references to each students Curriculum Vite. Again, the same class.

- **Continuation**

As continuation in gestalt states, users find easy to follow either ones in a straight line or one's horizontal. My personal webpage is again a perfect example for this.
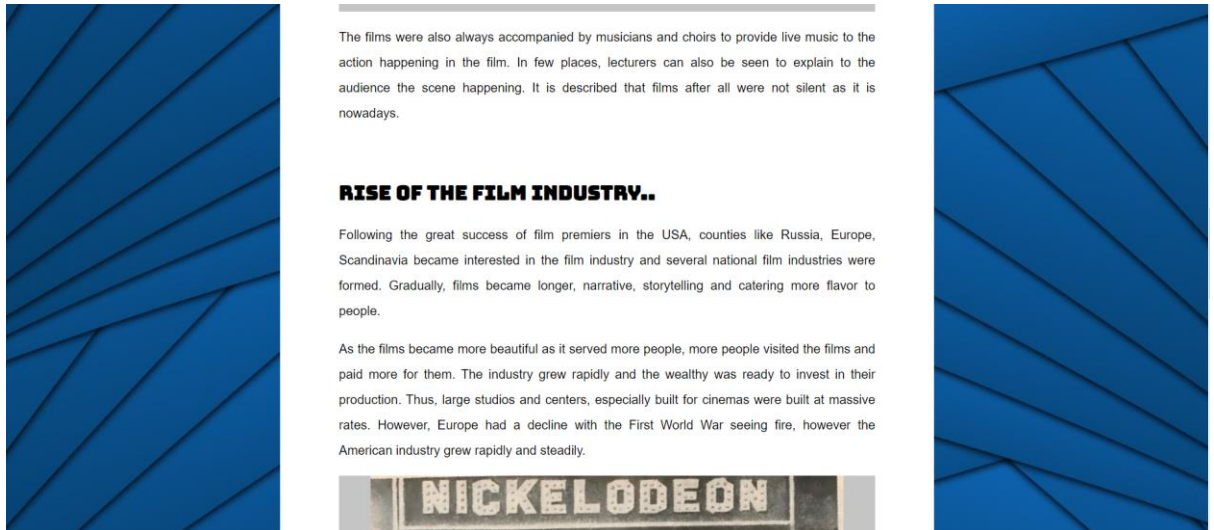
The screen division with facts in it has been reduced to 45% which is easier to read. Now the user can focus on the vertical continuation, than reading both ways and loosing track.

The remaining two gestalt rules were not been implemented, because my webpages didn't have their need.

3.5 Accessibility (graphics/forms)

a. Graphical elements - Design/Code

I have used alt tags for my images, so that when ever a image doesn't showup as required, instead of having the image blank, I will show the name of the image to show there is something in that place.

```html
<div class="leftDiv">
    <!------------------------POSTERS------------------------->
    <div class=row>
        <div class=column>
            <img id="firstFilm" src="images\firstFilmPoster.jpg" class="images1" alt="First Film" onclick="show
        </div>
        <div class=column>
            <img id="starWars" src="images\starWarsPoster.jpg" class="images1" alt="Star Wars" onclick="show(th
        </div>
        <div class=column>
            <img id="superMan" src="images\superManPoster.jpg" class="images1" alt="Super Man" onclick="show(th
        </div>
        <div class=column>
            <img id="toyStory" src="images\toyStoryPoster.jpg" class="images1" alt="Toy Story" onclick="show(th
        </div>
        <div class=column>
            <img id="avatar" src="images\avatarPoster.jpg" class="images1" alt="Avatar" onclick="show(this,'Ava
        </div>
    </div>
</div>
```

4 Janet

- o My codes do not breach the Data Protection Act 1998.
- o My codes do not violate the Copyright, Design and Patents Act 1990,

5 Conclusions

The coursework was a great time for us to get together and work towards goals just like a real-life engineering team would do. As student 04, I created an SVG Sitemap, a Gallery as contribution for the main program. Then, I created my personal webpage, regarding history of cinematography.

Working as a team and co-operating with people who are totally different and having understanding patterns in a different level was quite challenging. To worsen, the covid-19 outbreak also limited our brainstorm sessions together. Thus is do believe, I could've done better, if not for the extreme problems around.

However, my team mates were really supportive and I love working with each one of them very much.

References

Citations

- o W3Schools.com(2019). HTML. Available from: https://www.w3schools.com/html/default.asp [Accessed 19th March 2020]

References from

- ○ Google Font(2020). Available from https://fonts.google.com/ [Accessed on 12th March 2020]
- ○ Reddit.com(2020). Turning Points in Cinema. Available from https://www.reddit.com/r/movies/comments/23nzs9/the_most_important_turning_points_in_cinema/[[Accessed on 12th March 2020]
- ○ History of Cinematography. A brief history of Cinema. Available from: https://www.skillshare.com/blog/learn/a-brief-history-of-cinematography-for-todays-creatives [Accessed on 17th March 2020]

Appendices

Appendix A: Code

Site Map- sitemap.html

HTML:

```html
<!DOCTYPE html>
<html>
  <head>
    <title>Site Map</title>
    <!--Importing Style Sheets-->
    <link rel="stylesheet" type="text/css" href="css/sitemapStyleSheet.css">
    <link rel="stylesheet" type="text/css" href="css/style.css">
  </head>
  <body class="body" style="background-image: url('images/svgBackground.jpeg')">
    <a name="top"></a>
    <div class="headerH1">
      <img id="logoH1" src="images/logopng.png" alt="logo" >
      <div id="navigationbar">
        <ul>
          <li><a href="team.html">Team</a></li>
          <li> <a href="gallery.html">Gallery</a></li>
          <li> <a href="siteMap.html">Sitemap</a></li>
          <li> <a href="quiz.html">Quiz</a></li>
          <li> <a href="products.html">Product</a></li>
          <li> <a  href="home.html">Home</a></li>
        </ul>
      </div>
    </div>
    <svg width="100%" height="850" class="main">

      <line class="line" x1="730" y1="90" x2="730" y2="135" />

      <line class="line" x1="732" y1="230" x2="732" y2="270" />

      <line class="line" x1="138" y1="270" x2="1344" y2="270" />

      <line class="line" x1="142" y1="270" x2="142" y2="310" />

      <line class="line" x1="437" y1="270" x2="437" y2="310" />

      <line class="line" x1="732" y1="270" x2="732" y2="310" />

      <line class="line" x1="1027" y1="270" x2="1027" y2="310" />

      <line class="line" x1="1340" y1="270" x2="1340" y2="310" />

      //////////////////////////////////////////////////

      <line class="line" x1="142" y1="418" x2="142" y2="485" />
```

```
<line class="line" x1="437" y1="418" x2="437" y2="485" />

<line class="line" x1="732" y1="418" x2="732" y2="485" />

<line class="line" x1="1027" y1="418" x2="1027" y2="485" />

<line class="line" x1="1340" y1="418" x2="1340" y2="485" />

<!-- Presentation Page -->
<g onclick="location.href='index.html'" class="object">
    <rect class="box" x="627" y="10" width="200" height="65" />
    <text class="text" x="653" y="47">Presentation page</text>
</g>

<!-- Home Page -->
<g onclick="location.href='home.html'" class="object">
    <rect class="box" x="627" y="150" width="200" height="65" />
    <text class="text" x="690" y="188">Home page</text>
</g>

<!-- Products -->
<g onclick="location.href='products.html'" class="object">
    <rect class="box" x="75" y="330" width="130" height="65" />
    <text class="text" x="103" y="370">Products</text>
</g>

<!-- Quiz -->
<g onclick="location.href='quiz.html'" class="object">
    <rect class="box" x="370" y="330" width="130" height="65" />
    <text class="text" x="415" y="370">Quiz</text>
</g>

<!-- Feedback -->
<g onclick="location.href='feedback.html'" class="object">
    <rect class="box" x="665" y="330" width="130" height="65" />
    <text class="text" x="693" y="370">Feed Back</text>
</g>

<!-- Gallery -->
<g onclick="location.href='gallery.html'" class="object">
    <rect class="box" x="960" y="330" width="130" height="65" />
    <text class="text" x="990" y="370">Gallery</text>
</g>

<!-- Team -->
<g onclick="location.href='team.html'" class="object">
    <rect class="box" x="1275" y="330" width="120" height="65" />
    <text class="text" x="1315" y="370">Team</text>
</g>


/////////////////////////////////////////////////


<g onclick="location.href='student1cv.html'" class="object">
```

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```
            <circle class="circle" cx="142" cy="560" r="53"/>
            <text class="text" x="115" y="565">Shadim</text>
        </g>

        <g  onclick="location.href='student3cv.html'" class="object">
            <circle class="circle" cx="437" cy="560" r="53"/>
            <text class="text" x="410" y="565">Nethmi</text>
        </g>

        <g  onclick="location.href='student2cv.html'" class="object">
            <circle class="circle" cx="732" cy="560" r="53"/>
            <text class="text" x="700" y="565">Charani</text>
        </g>

        <g  onclick="location.href='student4cv.html'" class="object">
            <circle class="circle" cx="1027" cy="560" r="53"/>
            <text class="text" x="1000" y="565">Nuvin</text>
        </g>

        /////////////////////////////////////////////////

        <g class="object" onclick="location.href='historyOfCinematography.html'">
            <circle class="circle" cx="1295" cy="550" r="35"/>
            <text class="text" x="1272" y="555">Nuvin</text>
        </g>

        <g class="object" onclick="location.href='cinematographyTechniques.html'"
class="object">
            <circle class="circle" cx="1385" cy="550" r="35"/>
            <text class="text" x="1358" y="555">Shadim</text>
        </g>

        <g class="object" onclick="location.href='stagesOfProduction.html'"
class="object">
            <circle class="circle" cx="1295" cy="640" r="35"/>
            <text class="text" x="1265" y="645">Nethmi</text>
        </g>

        <g class="object" onclick="location.href='filmGenre.html'" class="object">
            <circle class="circle" cx="1385" cy="640" r="35"/>
            <text class="text" x="1353" y="645">Charani</text>
        </g>

    </svg>
    <div class="footer">
      <p style="color:#d58236">Poster Gallery © Created by <a
href="student4cv.html">Nuvin Godakanda Arachchi (2019443)</a> <a href="#top"
style="color: #ff9e40">[Back to top]</a> </p>
    </div>
  </body>
</html>
```

CSS File

```css
@import
url('https://fonts.googleapis.com/css?family=Bowlby+One+SC|Bungee+Inline|Frederi
cka+the+Great|Lobster+Two|Luckiest+Guy|Permanent+Marker|Press+Start+2P&disp
lay=swap');

html {scroll-behavior: smooth;}

.body{
    background-image: url("images/background.jpg");
    background-color: #000000;
    background-size: 100%;
    background-repeat:no-repeat;
    background-attachment: fixed;
    background-position: center;
    font-family: sans-serif;
}
.footer {
    Left: 0;
    Width: 100%;
    Background-color: #010101;
        bottom:0;
    Height:40px;
    Text-align: center;
    Border-radius: 10px;
}

.main{
    padding-top: 1.5em;
}

.text{
    font-family: 'Luckiest Guy', cursive;
    font-size: 16px;
    color: white;
    user-select: none;
}

.Pop_Quiz{
    font-family: 'ZCOOL QingKe HuangYou', cursive;
    font-size: 22px;
}

.Members{
    font-family: Bebas;
    font-size: 23px;
}

.Names{
    font-family: 'ZCOOL QingKe HuangYou', cursive;
    font-size: 26px;
}

.line{
```

26

```css
    stroke: #b26332;
    stroke-width: 7;
}

.circle{
    fill: #b5b5b5;
    stroke-width:4;
}

.circle:hover{
    fill: #b26332;
}

.box{
    fill: #cccbcc;
    stroke-width:6;
    cursor: pointer;
    transition: 0.3s;
}
.box:hover{
    fill: #b26332;
}

.object{
    transition: 0.3s;
}

.object:hover{
    fill: #ffae85;
    stroke: #b26332;
    cursor: pointer;
}
```

Personal Web Page- historyOfCinematography.html

HTML Code

```
<!DOCTYPE html>
<html>
  <head>
    <title>History of Cinematography</title>
    <!--Importing Style Sheets-->
    <link rel="stylesheet" type="text/css" href="css/historyStyleSheet.css">
    <link rel="stylesheet" type="text/css" href="css/style.css">
  </head>
  <body style="background-image: url('images/historyWall.jpg')">
    <header style="background-image: url('images/historyBackground.jpg');">
      <a name="top" id="top"></a>
      <div class="headerH1">
        <img id="logoH1" src="images/logopng.png" alt="logo" >
        <div id="navigationbar">
          <ul>
            <li><a href="team.html">Team</a></li>
            <li> <a href="gallery.html">Gallery</a></li>
            <li> <a href="siteMap.html">Sitemap</a></li>
            <li> <a href="quiz.html">Quiz</a></li>
            <li> <a href="products.html">Product</a></li>
            <li> <a  href="home.html">Home</a></li>
          </ul>
        </div>
      </div>
      <div class="title">
        <h1>Know the history</h1>
      </div>
      <section class="select">
        <button class="selection" onclick="location.href='#mainBody'">Find more
about the history of Cinematography..</button>
        <button class="selection" onclick="location.href='#footer'">Move to
End..</button>
      </section>
    </header>
    <div class="outterDeets">
      <div class="text" >
        <a name="mainBody" id="mainBody"></a>
        <br>
        <h2>The humble beginning..</h2>
        <p>In 1891, the Edison Company in USA created a prototype of the
Kinetoscope (a machine that runs a film and
          projects it to a screen through a bring white light), allowing a single
person to to view moving
          pictures at a time. In 1895, the Lumier Brothers took up the challenge to
present projected moving
          pictures to an paying audience. This made a revelation in the history of
cinematography, significantly
          marking the first theater show.
        </p>
        <p>
```

The first films were very short. Mostly, at maximum lasted for no more than a few minutes.

They were screened at opera halls, fairgrounds and any other place where darkening the room possible,

and was treated as a luxury at the time. Only the people of the highest class and important officials

went for cinemas.
```
</p>
<div class="img">
    <img src="images/kinematograph.jpg" style="height: 600px">
    <p>The Kinetoscope. Invented 1884</p>
</div>
<p>
```
The films were also always accompanied by musicians and choirs to provide live music to the action

happening in the film. In few places, lecturers can also be seen to explain to the audience the scene

happening. It is described that films after all were not silent as it is nowadays.
```
</p>
<br>
<h2>Rise of the film industry..</h2>
<p>
```
Following the great success of film premiers in the USA, counties like Russia, Europe, Scandinavia

became interested in the film industry and several national film industries were formed. Gradually,

films became longer, narrative, storytelling and catering more flavor to people.
```
</p>
<p>
```
As the films became more beautiful as it served more people, more people visited the films and paid

more for them. The industry grew rapidly and the wealthy was ready to invest in their production.

Thus, large studios and centers, especially built for cinemas were built at massive rates. However,

Europe had a decline with the First World War seeing fire, however the American industry grew rapidly

and steadily.
```
</p>
<div class="img">
    <img src="images/firstTheater.jpg" style="height: 570px">
    <p>The worlds first film theater</p>
</div>
<br>
<br>
<h2>New avenues sound and color</h2>
<p>
```
In attempts to add sound to films, firstly phonographic cylinders and discs were used.
```
</p>
<p>
```
Then, Warner Brothers' came up with a new technique, the Vitaphone System, which used a separate record

disc with each reel of film for the sound/ audio. The first film to have incorporated synchronized

dialogue was The Jazz Singer (USA, 1927) which was first showcased at the Warner Brothers' film hall.

</p>

<p>

Later as films improved, people were able to even ride cars into the cinemas. But cinemas had one thing

that lacked and was prominent. Color images. Even though color photos were available at the time, film

creators did not know to synchronize two.

</p>

<p>

Into the early 1930s, almost all films were synchronized with a full sound system, thanks to Warner

Brothers' Vitaphone System. By the mid-1930s, the world first was films with color and sound both

together, and marked the rise to the "Golden Age of Hollywood".

</p>

<h2>Digitization of Cinema..</h2>

<p>

Later, after various ups and downs, and frequent threats from the Television industry, the film industry

still stayed in its place, with no shake around. Then came a newer chance for cinematography to shine

again. Digital cinema would allow cinemas to be much more cost effective and efficient. This would

allow the whole film to be also carried around in digital storage devices such as a hard disk.

</p>

<p>

This was a turning point for the whole film industry. This was the only way for cinemas to catch up

with the digitization of the world, along with television technologies. Sony Company was the first to

come up with the concept of electronic cinematography, utilizing Sony's HDVS Professional Digital video

cameras, which came inbuilt with analogue to digital converters so the each capture is converted to

digital real time.

</p>

<p>

The Last Broadcast, aired in 1998 is believed to be the first feature length video shot and edited

entirely on consumer-level digital camera equipment. In 1999, George Lucas challenged a supremacy in

movie making for the first time by including footage with high definition digital cameras in

Star Wars: Episode 1.

</p>

</div>

</div>

```
<br>
<a name="footer" id="footer"></a>
<div class="feedback">
    <h3>We would love some Feed back from you!</h3>
    <p>Please let us know whether you liked our Web-Page, and what you
think..</p>
    <textarea
        id = "myTextArea";
        rows = "3";
        cols = "80"></textarea>
    <br>
    <button class="direct" type="submit">Submit</button>
</div>
<br>
<div class="footer">
    <p style="color:#d58236">Poster Gallery © Created by <a
href="student4cv.html">Nuwin Godakanda Arachchi (2019443)</a> <a href="#top"
style="color: #ff9e40">[Back to top]</a> </p>
</div>
    </body>
</html>
```

CSS Code:

```
@import
url('https://fonts.googleapis.com/css?family=Bowlby+One+SC|Bungee+Inline|Frederi
cka+the+Great|Lobster+Two|Luckiest+Guy|Permanent+Marker|Press+Start+2P&disp
lay=swap');

html {scroll-behavior: smooth;}

body{
    background-color: #b26332;
    background-size: fit;
    background-repeat:no-repeat;
    background-attachment: fixed;
    background-position: center;
    font-family: sans-serif;
}

header{
    padding: 1em;
    height: 70vh;
    margin:0.5em;
    background-size: cover;
    background-position: center;
    background-attachment: fixed;
    background-repeat: no-repeat;
}
.footer {
    padding-top: 2px;
    Left: 0;
    Width: 100%;
    Background-color: #000000;
```

```
    color: #ff9e40;
    Text-align: center;
    Height:40px;
    Top:50px;
    Border-radius: 10px;
}
form{
    background-color: #142b39;
    color:white;
    text-align:center;
    margin: auto;
    width: 100%;
    padding:50px;
    clear: both;
}
.menuCard{
    width: 50%;
    float: left;
    position: relative;
}
option{
    padding: 13px 32px;
    margin: 6px 17px;
    color: #ffffff;
    background-color: #14335d;
    display: inline-block;
    border-radius: 2px;
    cursor: pointer;
}
.title h1{
    color: #ffffff;
    text-shadow: 2px 2px 8px #2db0ff;
    font-family: 'Lobster Two', cursive;
    font-size: 650%;
    text-align: center;
    text-transform: capitalize;
}
h2{
    font-family: 'Bungee Inline', cursive;
    font-size: 25px;
}
.selection{
    text-decoration: none;
    padding: 13px 32px;
    margin: 6px 17px;
    color: #ffffff;
    background-color: #14335d;
    display: inline-block;
    border-radius: 2px;
    cursor: pointer;
}

.selection:hover{
    box-shadow: rgba(0,0,0,0.19);
    background-color: #20475d;
```

```css
    transition:  all 0.4s ease 0s;
    letter-spacing: 1px;
    border-radius: 50px;
}
.select{
    display: inline-block;
    transition: vertical-align;
}
.outterDeets{
    background-color: white;
    width: 55%;
    margin: auto;
}
.text{
    font-family: sans-serif;
    background-color: white;
    width: 82%;
    margin: auto;
    color: #000;
    font-size: 16px;
    line-height: 2em;
    padding: 0 0 1em 0;
    text-align: justify;
}
.img{
    background-color: rgba(140, 140, 140, 0.5);
    min-width:45%;
    text-align: right;
}
.img img{
    margin-right: 40px;
}
.img p{
    margin: 0px;
    padding: 0px;
    font-size: 10px;
    font-style: italic;
}
.feedback{
    font-family: 'PT Sans Narrow', sans-serif;
    background-color: #20475d;
    padding: 0.5em 3em 2em 5em ;
    color: white;
}
```

Gallery – gallery.html

HTML Code:

```html
<DOCTYPE html>
<html>
    <head>
            <title>Image Viewer</title>
            <!--Importing Style Sheets-->
            <link rel="stylesheet" type="text/css"
href="css/galleryStyleSheet.css">
            <link rel="stylesheet" type="text/css" href="css/style.css">
            <script>
                    function backgroundColor(color){

        document.getElementsByTagName("body")["body"].style.backgroundColor=color.value;
                    }

                    function textColor(color){

        document.getElementsByTagName("body")["body"].style.color=color.value;
                    }

                    function show(img,txt){
                            var image= document.getElementById("image-preview");
                            var text= document.getElementById("image-description");

                            image.src=img.src;
                            text.innerHTML=txt;
                    }
            </script>
    </head>

    <body class="background" name="body" style="background-image:
url('images/galleryBackground.png');">
    <a name="top"></a>
    <div class="headerH1">
            <img id="logoH1" src="images/logopng.png" alt="logo" >
            <div id="navigationbar">
                    <ul>
                            <li><a href="team.html">Team</a></li>
                            <li> <a href="gallery.html">Gallery</a></li>
                            <li> <a href="siteMap.html">Sitemap</a></li>
                            <li> <a href="quiz.html">Quiz</a></li>
                            <li> <a href="products.html">Product</a></li>
                            <li> <a  href="home.html">Home</a></li>
                    </ul>
            </div>
    </div>

            <h1>Image Viewer</h1>
            <h2>Explore some movie posters that marked milestones in
cinema..</h2>
```

```html
<!-------------------------FORM----------------------------->
<form name="menuForm">
        <div class="menuCard">
                Background Color
                <select name="BackgroundColor" id="BackgroundColor" onchange="backgroundColor(this)">
                        <option value="#b26332">Default-Orange</option>
                        <option value="#217bb2">Blue</option>
                        <option value="#E54AA1">Pink</option>
                        <option value="#60b23d">Green</option>
                        <option value="#656764">Grey</option>
                </select>
        </div>
        <div class="menuCard">
                Text Color
                <select name="TextColor" id="TextColor" onchange="textColor(this)">
                        <option value="#000000">Black</option>
                        <option value="#FFFFFF">White</option>
                        <option value="#000080">Navy</option>
                        <option value="#890B74">Purple</option>
                </select>
        </div>
</form>
        <div class="container">
                <div class="leftDiv">
                        <!------------------------POSTERS--------------------------->
                        <div class=row>
                                <div class=column>
                                        <img id="firstFilm" src="images\firstFilmPoster.jpg" class="images1" alt="First Film" onclick="show(this,'Henri Brispot, Cinématographe Lumière (1896). This poster was created for the Lumière Brothers on the occasion of the world\'s first-ever public film screening. It is thought to be the world\'s first movie poster. Courtesy of Sotheby\'s London.')" >
                                </div>
                                <div class=column>
                                        <img id="starWars" src="images\starWarsPoster.jpg" class="images1" alt="Star Wars" onclick="show(this,'A New Hope or Star Wars is a 1977 science fiction film by George Lucas. This paoster was created for the premiers, the first ever screening around the world. The film is know to be the turning point for cinema\'s Special and After effects.')">
                                </div>
                                <div class=column>
                                        <img id="superMan" src="images\superManPoster.jpg" class="images1" alt="Super Man" onclick="show(this,'Superman (also known as Superman: The Movie) is a 1978 superhero film directed by Richard Donner, based on the DC Comics character of the same name. The film was the first ever movie to really premier a Super Hero character, awakening childhood super hero\'s')">
                                </div>
                                <div class=column>
```

```
                                        <img id="toyStory"
src="images\toyStoryPoster.jpg" class="images1" alt="Toy Story"
onclick="show(this,'Toy Story is a 1995 American computer-animated buddy comedy
film produced by Pixar Animation Studios and released by Walt Disney Pictures. This
film is know to be the world\'s first Fully-Computer Animated film, completely
changing the film industry')">
                                </div>
                                <div class=column>
                                        <img id="avatar"
src="images\avatarPoster.jpg" class="images1" alt="Avatar"
onclick="show(this,'Avatar is a 2009 American epic science fiction film directed,
written, produced, and co-edited by James Cameron and stars Sam Worthington,
Zoe Saldana, Stephen Lang, Michelle Rodriguez, and Sigourney Weaver. The movie
marked a huge turn in Special Effects and 3D animations.')">
                                        </div>
                                </div>
                        </div>
                        <div class="centerDiv">
                                <h3 id="image-description">Henri Brispot,
Cinématographe Lumière (1896). This poster was created for the Lumière Brothers
on the occasion of the world\'s first-ever public film screening. It is thought to be the
world\'s first movie poster. Courtesy of Sotheby\'s London.</h3>
                                <img id="image-preview" class= "image-preview"
src="images\firstFilmPoster.jpg" alt="preview" />
                        </div>
                </div>
                <div>
                        <p style="color:black">Poster Gallery © Created by <a
href="student4cv.html">Nuwin Godakanda Arachchi (2019443)</a> <a href="#top"
style="color: #ff9e40">[Back to top]</a> </p>
                </div>
        </body>
</html>
```

CSS Code:

```
@import
url('https://fonts.googleapis.com/css?family=Bowlby+One+SC|Bungee+Inline|Frederi
cka+the+Great|Lobster+Two|Luckiest+Guy|Permanent+Marker|Press+Start+2P&disp
lay=swap');

html {scroll-behavior: smooth;}

body{
        background-color: #b26332;
        background-size: 100%;
        background-repeat:no-repeat;
        background-attachment: fixed;
        background-position: center;
        font-family: sans-serif;
}
h1{
        text-align: center;
        font-size:72px;
        font-family: 'Fredericka the Great', cursive;
```

```css
        color:white;
}
h2{
        font-family: 'Lobster Two', cursive;
        text-align: center;
        font-size:35px;
        color:white;
}
h3{
        text-align: center;
        font-size:20px;
}
form{
        background-color: gray;
        color:white;
        text-align:center;
        margin: auto;
   width: 76%;
        padding:30px;
   clear: both;
        border-bottom: 2px solid white;
}
p{
        text-align:center;
}
.container{
        width: 80%;
        margin: auto;
}
.leftDiv{
        background-color:rgba(255,255,255,0.5);
        float:left;
        width:13%;
}
.centerDiv{
        background-color:rgba(255,255,255,0.5);
        float:right;
        width:86%;
}
.images1{
        width:100%;
        transition: box-shadow 0.3s;
}
.images1:hover{
        box-shadow: 0 0 20px white;
}
.image-preview{
        height: 120%;
        margin-top: 2%;
        margin-bottom: 5%;
        margin-left: 20%;
}
.column {
        float: center;
        width:70%;
```

```css
        padding-top:15px;
        padding:15%;
}
.menuCard{
        width: 50%;
        float: left;
        position: relative;
}
menuCard:hover{
        box-shadow: 10px 10px 5px white;
}
```

Curriculum Vita- student4cv.html

HTML Code:

```html
<html>

    <head>
        <!-- css style sheet      -->
        <link rel="stylesheet" type="text/css" href="css/cvStyleSheet.css">

        <!-- all fonts that are used -->
        <link
href="https://fonts.googleapis.com/css?family=Bebas+Neue&display=swap"
rel="stylesheet" type= "text/css">
        <link href="https://fonts.googleapis.com/css?family=Oswald"
rel="stylesheet">
        <link
href="https://fonts.googleapis.com/css?family=Baloo+Chettan+2&display=swap"
rel="stylesheet">

        <style>

            body {
                background-image:url("images/cv.jpg"); <!-- The link for
the bg image which is used -->
            }

        </style>

    </head>


    <body>

        <header>
            <img src="images/student4.jpg" alt="Myself" class="center">
        </header>

            <div class="heading">
                Nuwin Godakanda Arachchi<br/>
```

```html
                                <a class="hyperlink"
href="historyOfCinematography.html" target="_blank">Personal Page  |</a><!-- link
for the personal webpage created by student 1-->
                                <a class="hyperlink" href="gallery.html"
target="_blank">  Gallery  |</a><!-- link for the main page(store page) created by
student 1-->
                                <a class="hyperlink" href="siteMap.html"
target="_blank">  Site Map</a><!-- link for the main page(store page) created by
student 1-->

                        </div>

                        <div class="box1"><!--The whole webpages is divided into
white boxes  -->

                                <div class="bold"><!--makes the text bold and changes
the color -->
                                <h1>Personal Information</h1>
                                        <p>
                                                Hello, my name is Nuvin Hansitha
Godakanda Arachchi. I am an 18-year-old with dreams, sky high.
                                                I've excelled in my academic, and non-
academic work and found my-self capable of handling any
                                                responsibility handed over to me.
Further, I have won a satisfactory number of awards from my
                                                extra-curricular activities such as
singing, dancing, soccer, etc. I achieved my first
                                                certificate in academic excellence in
2017, achieving 5A* and 3A in my GCSE Ordinary Levels,
                                                followed by my Advanced Levels results.
I've also achieved the title of Visharadha through
                                                Indian classical music exams in 2013. I
have also hosted several shows in TV Derana and
                                                Lakhanda FMI look forward to become a
software engineer, making people lives easier
                                                with new innovations.
                                        </p>
                                </div>

                                <div class="bold"><!--makes the text bold and changes
the color -->
                                <h1>Education</h1>
                                        <ul>
                                                <li>Studied at Lyceum International
School- Nugegoda</li>
                                                <li>Trinity London- Grade 4-
Distinction</li>
                                                <li>Bhatkande Indian Classical Music-
Visharada</li>
                                                <li>Attending IIT- Software Engineering
Course </li>
                                                <li>Attending SLAFFA-FIATA </li>
                                        </ul>
                                        </ul>
                                </div>
```

```
                        <div>
                                <br><div class="bold">Address:<br/>105/4,
Kudamaduwa Road, Kasbewa</div><!--makes the text bold and changes the color --
>
                        </div><br>

                        <div>
                                <br><div class="bold">Contact Number:<br/>
+94 70 397 1000 </div><!--makes the text bold and changes the color -->
                        </div><br>

                        <div>
                                <br><div class="bold">Email:-<br/><a
href="mailto:nuwin.2019443@iit.ac.lk">nuwin.2019443@iit.ac.lk</a></div><!--makes
the text bold and changes the color -->
                        </div><br>

                        <div><!--makes the text bold and changes the color -->
                                <div class="bold">Instagram <br><a
href="https://www.instagram.com/nu.vv.in/">nu.vv.in</a></div>
                        </div>

                        <div>
                                <br><div class="bold">Familiar Languages:<!--
makes the text bold and changes the color -->
                                <ul>
                                        <li>English</li>
                                        <li>Sinhala</li>
                                </ul>
                                </div>
                        </div>

                        <div>
                                <br><div class="bold">References:<!--makes
the text bold and changes the color -->
                                        <br> available on request
                                </div>
                        </div><br><br>

                        <div>
                                <br><div class="bold">More Details:<!--makes
the text bold and changes the color -->
                                        <br>Make sure to check my social
media accounts for more of the very latest
                                </div>
                        </div>

                </div>

        <footer>

        </footer>

    </body>      </html>
```

CSS Code:

```css
body{
        background-size: 100%;
        background-repeat:no-repeat;
        background-attachment: fixed;
        background-position: center;
        font-family: sans-serif;
}

.center {
 display: block;
 margin-top: 35px;
 margin-left: auto;
 margin-right: auto;
 width: 20%;
 height: auto;
}

.heading{
        color:white;
        font-family: 'Oswald', sans-serif;
        font-size: 60px;
        padding-top:2%;
        text-align: center;
}

.paragraph{
        text-align: left;
        color:#ed5927;
        padding-left: 4%;
        font-size: 125%;
        font-family: 'Oswald', sans-serif;
        line-height: 1.8;
}
s
.box1{
        border-left-style: solid;
        border-left-width: 8px;
        border-left-color: white;

        border-top-style: solid;
        border-top-width: 8px;
        border-top-color: ;

        border-radius: 15px;

        box-shadow: 5px 5px 20px 5px rgba(125, 249, 255);
}

 .box1 > div{
        border-top-style: solid;
        border-top-width: 5px;
        border-top-color: white;
}
```

```
.top{
        border-top-style: solid;
        border-top-width: 8px;
        border-top-color: white;

        border-radius: 15px;

        box-shadow: 5px 5px 20px 5px rgba(125, 249, 255);

}

.nested{
        display: grid;
        font-size: 20px;
        font-family: 'Baloo Chettan 2', cursive;
        color: white;
}
.nested > div{
        border-top-style: solid;
        border-top-width: 5px;
        border-top-color: white;
}

.bold{
        font-size: 25px;
        color:white;
        font-family: 'Baloo Chettan 2', cursive;
}
```

Main Style Sheet for Navigation Bars

```
.headerH1{
         background:black;
      min-height: 130px;
         }
/*for the logo*/
 #logoH1{
     width:200px;
     height:100px;
 /*to the navigation bar*/     }
 #navigationbar{
                float:right;
                text-align: center;
                padding: 25px;
                text-decoration: none;
                font-size: 20px;
                border-right: 2px solid black;
}
/*to modify the navigation bar*/
 li{
  float:right;
  }
```

```
li a:hover{
        background-color:#FBBF2A;
        }
        /*transitions to increase the smoothness of the website*/
li a{
        transition: 0.3s;
        display:block;
        color:white;
      padding:14px 16px;
        text-decoration:none;
        text-align:center;
        }

footer{

        margin-top:200px;
        left: 0;
        bottom: 0;
        width: 100%;
        background-color: orange;
        text-align: center;
}
```

Appendix B: Screenshots

Site Map- sitemap.html

Gallery – gallery.html

Personal Web Page- historyOfCinematography.html

American industry grew rapidly and steadily.

The worlds first film theater

NEW AVENUES SOUND AND COLOR

In attempts to add sound to films, firstly phonographic cylinders and discs were used.

Then, Warner Brothers' came up with a new technique, the Vitaphone System, which used a separate record disc with each reel of film for the sound/ audio. The first film to have incorporated synchronized dialogue was The Jazz Singer (USA, 1927) which was first showcased at the Warner Brothers' film hall.

Later as films improved, people were able to even ride cars into the cinemas. But cinemas had one thing that lacked and was prominent. Color images. Even though color photos were available at the time, film creators did not know to synchronize two.

Into the early 1930s, almost all films were synchronized with a full sound system, thanks to Warner Brothers' Vitaphone System. By the mid-1930s, the world first was films with color and sound both together, and marked the rise to the "Golden Age of Hollywood".

DIGITIZATION OF CINEMA..

Later, after various ups and downs, and frequent threats from the Television industry, the film industry still stayed in its place, with no shake around. Then came a newer chance for cinematography to shine again. Digital cinema would allow cinemas to be much more cost effective and efficient. This would allow the whole film to be also carried around in digital storage devices such as a hard disk.

This was a turning point for the whole film industry. This was the only way for cinemas to catch up with the digitization of the world, along with television technologies. Sony Company was the first to come up with the concept of electronic cinematography, utilizing Sony's HDVS Professional Digital video cameras, which came inbuilt with analogue to digital converters so the each capture is converted to digital real time.

The Last Broadcast, aired in 1998 is believed to be the first feature length video shot and edited entirely on consumer-level digital camera equipment. In 1999, George Lucas challenged a supremacy in movie making for the first time by including footage with high definition digital cameras in Star Wars: Episode 1.

We would love some Feed back from you!

Please let us know whether you liked our Web-Page, and what you think..

Submit

Curriculum Vita- student4cv.html

Nuwin Godakanda Arachchi
Personal Page | Gallery | Site Map

Personal Information

Hello, my name is Nuvin Hansitha Godakanda Arachchi. I am an 18-year-old with dreams, sky high. I've excelled in my academic, and non-academic work and found my-self capable of handling any responsibility handed over to me. Further, I have won a satisfactory number of awards from my extra-curricular activities such as singing, dancing, soccer, etc. I achieved my first certificate in academic excellence in 2017, achieving 5A* and 3A in my GCSE Ordinary Levels, followed by my Advanced Levels results. I've also achieved the title of Visharadha through Indian classical music exams in 2013. I have also hosted several shows in TV Derana and Lakhanda FM I look forward to become a software engineer, making people lives easier with new innovations.

Education

- Studied at Lyceum International School- Nugegoda
- Trinity London- Grade 4- Distinction
- Bhatkande Indian Classical Music- Visharada
- Attending IIT- Software Engineering Course
- Attending SLAFFA-FIATA

Address:
105/4, Kudamaduwa Road, Kasbewa

Contact Number:
+94 70 397 1000

Email:-
nuwin.2019443@iit.ac.lk

Instagram
nu.vy.in

Familiar Languages:

- English
- Sinhala

References:
available on request

More Details:
Make sure to check my social media accounts for more of the very latest

Appendix C: Individual Statement

Student Name:	Nuwin Hansitha Godakanda Arachchi	Student Id:	2019443 W1761350
State what tasks you carried out in the project.			
Poster Gallery- gallery.html **Site map**- sitemap.html **History of Cinematography**- historyOfCinematography.html **Student 4 Curriculum Vita**- student4cv.html			
State what you enjoyed and did not enjoy about teamwork.			
Creating the image gallery was quite challenging. So, writing the code for it was quite enjoyable. The History of Cinematography was not quite the topic I preferred, but coding it was also enjoyable while thinking of all the rules and principles for readability and Screen readability			
State what you learnt about teamwork.			
I really did learn a lot from this especially about working with someone who doesn't get what you say. Like Ever!			
State what skills you gained/learnt from undertaking the project.			
I learnt how to work with servers and how to upload a file web-page (the file formats)			
State any strengths about yourself that emerged whilst undertaking the project.			
I actually found that I'm keen on web design which I previously thought I was weak in			
State any weaknesses about yourself that emerged whilst undertaking the project.			
I found I'm not that good in javascript and that java and javascript are different			
State how you would do things better if you were to undertake the project again.			
I'll work on my javascript a bit more and work on some better hover effects.			
Additional general or project specific comments:			
Student Signature:	-signed- -Nuvin-	Date:	24/03/2020

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URL: https://w1761350.users.ecs.westminster.ac.uk/