

COMP-2707 Advanced Web Design Fall 2023

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**Spondon Sayeed** 

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Oct 30th

# Lab 3 – Graphics and Color, Page Layout, and Site Navigation

Goals: In this lab you need to read the 3 above chapters and answer the following questions.

Points	Submission	Due date
-	M/site your enguers in this file, says it as a not and submit it	Monday Oct 20
5		Monday Oct 30
	on or before the due date.	

# Part 1: Graphics and Color [2 marks]

Create a table that compares the images formats: GIF, JPG, PNG and SVG. In the comparison you need to discuss the following 4 features for each format.

	GIF	JPG	PNG	svg
Compression and file size.  Transparency support.	no color information is discarded when the image is compressed	The higher the compression, the lower the image quality	lossless format compresses bit images to smaller file sizes than GIF	generally small and efficient, especially for simple or geometric graphics.
Color depth: how many colors are supported.	The color depth of GIF is 8-bit, no more than 256 colors	JPGs are 24-bit RGB images that allow millions of colors	PNG images can have a 32-bit color depth with alpha channel is added	no predefined limit of colors or shades that can be used



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Scalability and	reducing the	significant	retains its	No loss of detail
quality: what	image size	reductions can	quality, and you	since SVG is
happens if we	significantly can	result in a loss of	can reduce its	made up of
resize the	lead to a loss of	detail and a	dimensions	mathematical
image.	detail	decrease in	without a	definitions of
		image quality	significant loss	shapes, not
	enlarging the		of detail or	pixels
	image size can	enlarging a JPEG	clarity.	
	lead to a	image often		
	pixelated or	leads to visible	making it larger,	
	blocky	pixelation	can lead to	
	appearance		quality loss, it	
			can appear	
			pixelated or	
			blurry, especially	
			if the original	
			image has a	
			lower resolution	

# Part 2: Page layout and site navigation [3 marks]

## Consider the following HTML code:



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```
nav a {
            color: #fff;
            text-decoration: none;
            margin: 0 10px;
            display: block;}
        nav a:hover {...}
        p {padding: 20px;}
    </style>
</head>
<body>
    <header>
        <h1>Welcome to My Website</h1>
    </header>
    <nav>
        <a href="#">Home</a>
        <a href="#">About</a>
        <a href="#">Contact</a>
    </nav>
    <main>
        This is a simple web page with a header, a paragraph, and a
navigation bar with three links. You can replace this text and customize the
links as needed for your webpage. 
    </main>
</body>
</html>
```

For each of the questions below, state the CSS property that should be added or removed, update the code accordingly, take a screenshot of the webpage after each update, and include it with the answer. For adding a property, add the required line of code whenever you see a highlighted 3 dots (...).

a. Which CSS property should be added to both the header and the navbar so that the text in these elements get aligned to the center of the page?

### text-align: center;

b. Which CSS property should be deleted to make the links in the navbar displayed inline or horizonal?

### Remove display: block;



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c. Which CSS property should be added so that the navbar links appear <u>underlined</u> when the mouse hovers over them?

Under nav a:hover add text-decoration: underline;