



Web Technologies

ICT1153

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Objectives

- >After successfully completing this lecture, students should be able to,
- Use colors in web page development
- Add hyperlinks in web pages



Colors in HTML



- ►In HTML, a color can be specified by using any of the given below.
 - Color name
 - RGB value
 - HEX value

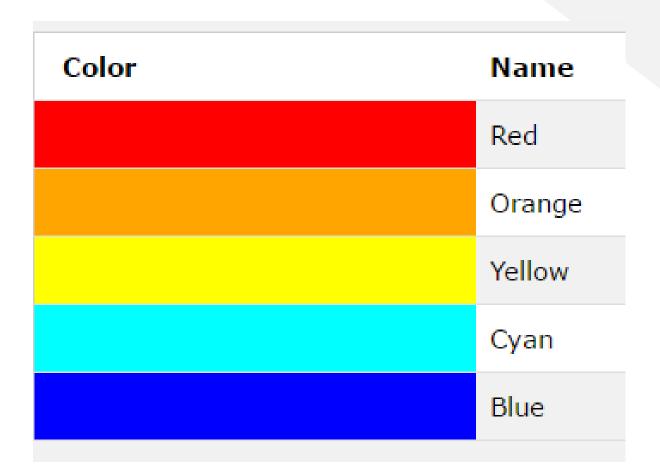
Color attribute is used to add colors to background, heading, text or hyperlink.





Adding color to the background of the web page

Ex: <body bgcolor="blue">





Adding Colors Using Color Name

Setting background color for HTML elements

Ex:

```
<h1 style="background-color:green;">Hello World</h1>
Welcome to the
new course Web Technologies
```



Adding Colors Using Color Name

Setting colors to texts

Setting colors to borders

```
Ex:
<h1 style="border:2px solid Tomato;">Hello World</h1>
<h1 style="border:2px solid Violet;">Hello World</h1></h1></h1>
```

Adding Colors Using RGB Values

Solo Company C

- A color can also be specified as an RGB value, using this formula,rgb(red, green, blue)
- Each parameter (red, green and blue) defines the intensity of the color between 0 and 255.

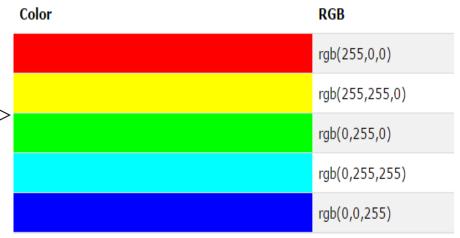
Ex:

rgb(255, 0, 0) is displayed as red, because red is set to its highest value (255), and the other two (green and blue) are set to 0.

rgb(0, 255, 0) is displayed as green, because green is set to its highest value (255), and the other two (red and blue) are set to 0.

Ex: <body bgcolor="rgb(2,56,2)">

<h1 style="background-color:rgb(255, 0, 0);">Hello world</h1>



Adding Colors Using Hex Values

- >RGB values can also be specified using hexadecimal color values in the form: #RRGGBB.
 - RR (red)
 - GG (green)
 - BB (blue)

are hexadecimal values between **00** and **FF** (same as decimal 0-255)

Ex:

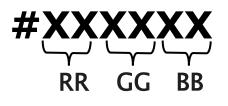
- #ff0000 is displayed as red, because red is set to its highest value (ff), and the other two (green and blue) are set to 00.
- #00ff00 is displayed as green, because green is set to its highest value (ff), and the other two (red and blue) are set to 00.

<h1 style="background-color:#ff0000;">Red</h1>





Color	Color HEX	Color RGB
	#000000	rgb(0,0,0)
	#FF0000	rgb(255,0,0)
	#00FF00	rgb(0,255,0)
	#0000FF	rgb(0,0,255)
	#FFFF00	rgb(255,255,0)
	#00FFFF	rgb(0,255,255)
	#FF00FF	rgb(255,0,255)
	#C0C0C0	rgb(192,192,192)
	#FFFFFF	rgb(255,255,255)



Intensity of Red, Green & Blue

Exercise



- >Write the code segment to add colors to,
 - the document background (#E6E6FA)
 - the Heading1 "University of Ruhuna" (red)
 - The Heading 2 "Sri Lanka" (rgb(200,100,100))

HTML Links





HTML Links



- >HTML links are hyperlinks.
- > Hyperlink : Text or an image you can click on, and jump to another document.
- When you move the mouse over a link, the mouse arrow will turn into a little hand.
- ➤One main power of HTML is the ability to link text/multimedia sources.
- > Syntax
- link text

HTML Links



- \triangleright Starts with $\langle a \rangle$, which stands for anchor.
- Links are achieved through the **Hypertext reference** attribute (**href**).
- The **href** attribute specifies the destination address (http://www.ruh.ac.lk/).
- The link text is the visible part (Ex: University of Ruhuna)
- \triangleright Anchor has to be closed at the end
 - Syntax :

Link Text

Exercise:

Create a link to access the University of Ruhuna web site (http://www.ruh.ac.lk)

HTML Link Types



> Links can be expressed in relative or absolute terms.

Relative reference

- > Relative links only point to a file or a file path.
- When a user clicks a relative link, the browser takes them to that location on the current site.
- For that reason, you can only use relative links when linking to pages or files within your site.

HTML Link Types



Relative reference

Ex 01:

Click Me

- > This link points to a filename, with no path provided.
- > This means that linkhere.html is located in the same folder as the page where this link appears.
- If both files were located in the root directory of the Website http://www.website.com, the actual website address the user would be taken to is http://www.website.com/linkhere.html.
- If both files were located in a subfolder of the root directory called **files**, the user would be taken to **http**://www.website.com/files/linkhere.html.

HTML Link Types Relative reference



Ex 02:

 My vacation

> You're telling the browser to look in the current folder (pictures) for a subfolder (vacation) that contains the file you want the user taken to (vacation.html). You can link to as many subfolders as you need using this method.

Ex 03:

Read Stories

- > When the browser sees ... in front of the filename, it looks in the folder above the current folder.
- > The web page called **stories.html** located in another folder called **stories**. This folder is located in the root directory, one folder up from the current folder, **pictures**.

HTML Link Types

Absolute reference



> Absolute paths provide the complete website address where you want the user to go.

Ex:

```
<a href="https://www.coffeecup.com"> Click here </a>
```

You must use absolute paths when linking to another Website, but you can also use absolute paths within your own website too.

(http://www.mysite.com/graphics/image.png)

> Relative links make it easy to do things like change your domain name without having to go through all your HTML pages.

Target



The target attribute specifies where to open the linked document.

> Syntax :

> Visit
W3Schools

Value	Description
_blank	Opens the linked document in a new window or tab
_self	Opens the linked document in the same frame as it was clicked (this is default)
framename	Opens the linked document in a named frame



HTML Link Titles

Specifies extra information about an element. The information is most often shown as a tooltip text when the mouse moves over the element.

Ex:

Visit Ruhuna

Questions ???









Thank You.