

CSS

Cascading Style Sheets

Definition - CSS

- CSS (Cascading Style Sheets) is the code that styles web content.
- How do I make text red? How do I make content display at a certain location in the (webpage) layout?
- CSS is used to define styles for your web pages, including the design, layout and variations in display for different devices and screen sizes(media queries).

Objectives

- What is CSS
- Syntax of CSS
- How to insert CSS in HTML
- Most used properties of CSS
- Understanding of Box Model
- Working knowledge of CSS

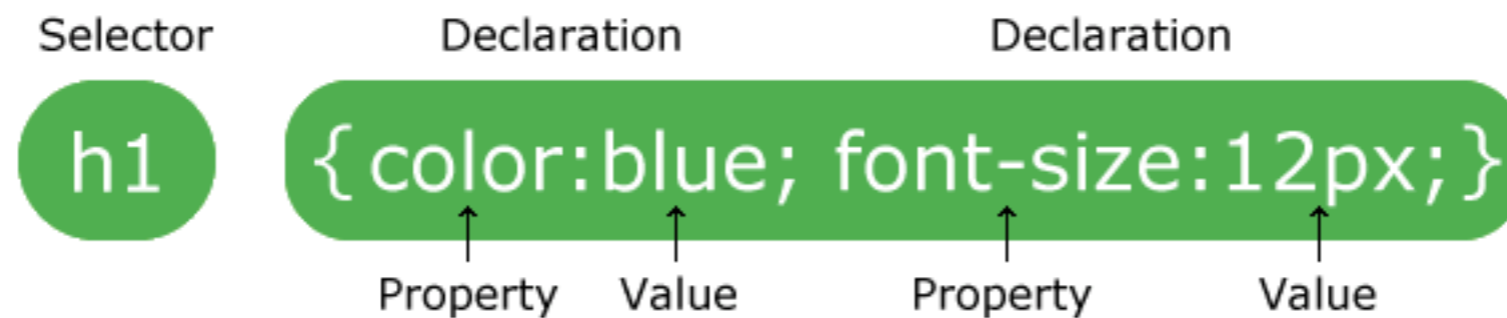
Background - CSS

- HTML was NEVER intended to contain tags for formatting a web page!
- When tags like ``, and color attributes were added to the HTML 3.2 specification, it started a nightmare for web developers.
- CSS removed the style formatting from the HTML page!
- The style definitions are normally saved in external `.css` files. You can change the look of an entire website by changing just one file!

Syntax

CSS Syntax

A CSS rule-set consists of a selector and a declaration block:



Inserting CSS in HTML page

1. Inline, `Blue`
 2. Internal CSS, `<head> <style> { background-color: blue;} </style> </head>`
 3. External link, `<link rel="stylesheet" type="text/css" href="mystyle.css">`
- Best way is external, worst inline(not always)

Demo

CSS Selectors

- CSS selectors are used to "find" (or select) HTML elements based on their element name, id, class, attribute, and more.

All CSS Simple Selectors

Selector	Example	Example description
<i>#id</i>	#firstname	Selects the element with id="firstname"
<i>.class</i>	.intro	Selects all elements with class="intro"
<i>element.class</i>	p.intro	Selects only <p> elements with class="intro"
<i>*</i>	*	Selects all elements
<i>element</i>	p	Selects all <p> elements
<i>element,element,...</i>	div, p	Selects all <div> elements and all <p> elements

Pseudo selector: a:hover, a:visited

Most used CSS Properties

Property	Description	Values
color	Element color	
background-color	Background color	
background-image	Sets the background image	
display	Display behavior	<code>{block, inline-block, inline, none}</code>
width	Element width	
height	Element height	
min-width	Minimum width	
min-height	Minimum height	
max-width	Maximum width	
max-height	Maximum height	
margin	Outer margins property	<code>margin: 25px 50px 75px 100px;</code>
padding	Inner margin property	
border	Border property	<code>border: 5px solid red;</code>
border-color	Border color	
border-width	Border width	
border-style	Border style	<code>{none, solid, dotted, inset, dashed solid ...}</code>
border-radius	Border radius	
font	Font properties	
font-family	Defines the font	
font-style	Font style	<code>{normal, italic, oblique}</code>
font-weight	Thickness of the font	<code>{normal, bold, lighter, bolder}</code>
position	Type of positioning used for an element	<code>{static, relative, absolute, fixed, sticky}</code>
z-index	Sets the order of overlapping elements	<code>{auto, -1, 0, 1, 2, 3 ...}</code>

Cascading Order

- Inline style (inside an HTML element)
- internal style sheets (in the head section)
- External
- Browser Default
- !important
- Closest to the element wins

Box Model



1. Content
2. Padding
3. Border
4. Margin

Inline and Block Elements

- An inline element does not start on a new line and only takes up as much width as necessary.
 - ``, `<a>`, ``
- A block-level element always starts on a new line and takes up the full width available (stretches out to the left and right as far as it can).
 - `<div>` , `<h1>`, `<p>`, `<form>`

Important Other Properties

- {max-width : 500px} — sets the max width, helpful for making responsive — and avoiding scroll
- Position property(bad nomenclature) : Specifies the type of positioning method used for an element. Then left, right, top values
 - Static : Default, Normal flow of page
 - Relative : Relative to its normal position
 - Fixed: Always stays in the same place even if the page is scrolled. Relative to screen/view port.
 - Absolute : Relative to the nearest positioned ancestor (<div><div></div></div>)

Class Problem

Create below HTML page using HTML + CSS



www.google.co.in

Class Problem

Positioning Text In an Image

How to position text over an image:

Example



https://www.w3schools.com/Css/css_positioning.asp

Class Problem

Horizontal Navigation Bar Examples

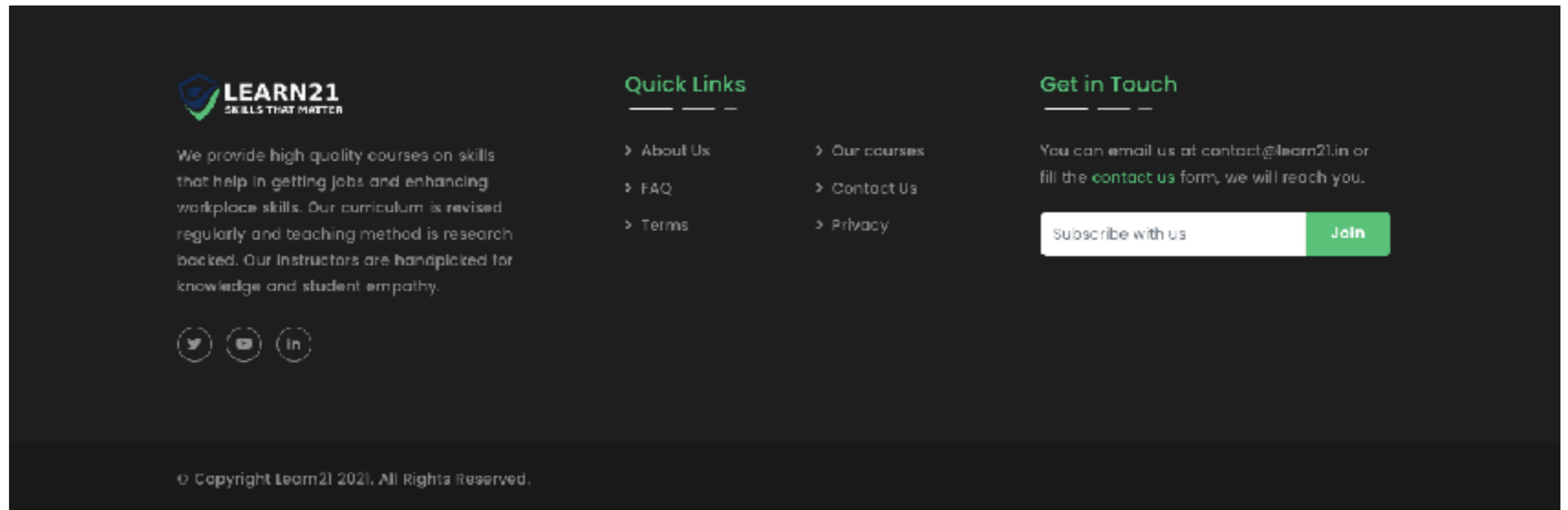
Create a basic horizontal navigation bar with a dark background color and change the background color of the links when the user moves the mouse over them:



Home News Contact About

https://www.w3schools.com/Css/tryit.asp?filename=trycss_navbar_horizontal_black

Home Problem



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