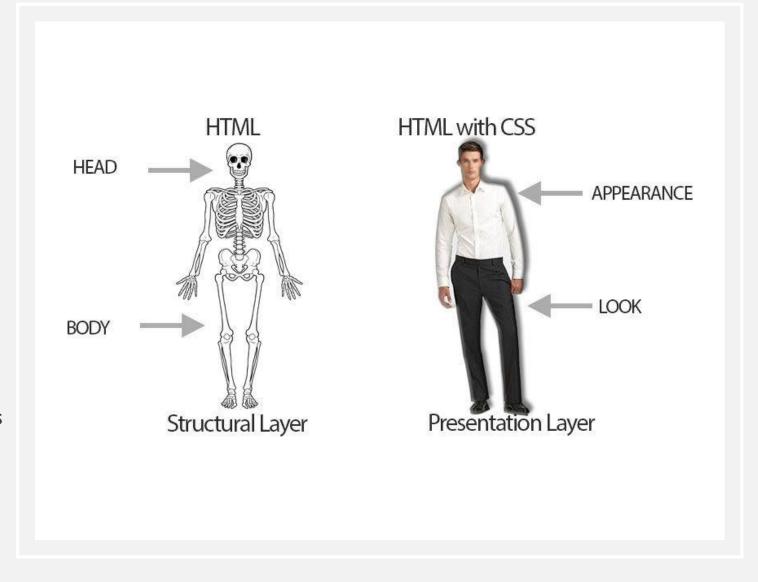
INTRODUCING CSS

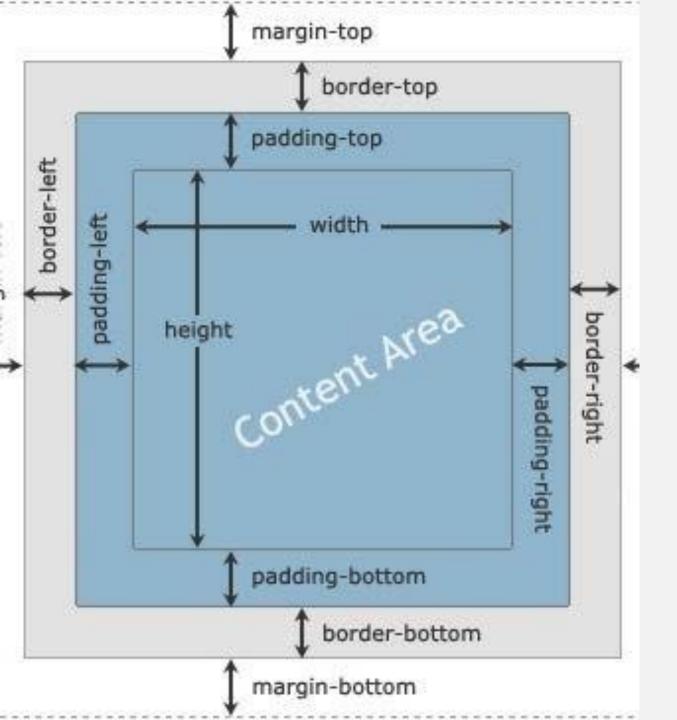
- Definition
- Basic Syntax
- How it works?
- Selectors
- Properties
- Layout



DEFINITION

- CSS stands for Cascading Style Sheets.
- With CSS, "your appearance" is totally transformed to a different look which means it gets more nicer, great-looking.
- We have built our pure HTML and we might thought that it looks a little bit boring. However, we can improve it thanks to CSS.
- Controls layout of web pages with the change of text, color,...it allows you to create rules that specify how the content of elements should appear.





CSS BOX MODEL

- The diagram shows how the border, padding, margin CSS properties laid out on the web pages.
- These boxes interact with each other and have their own content area whose element is displayed in each rectangular box.

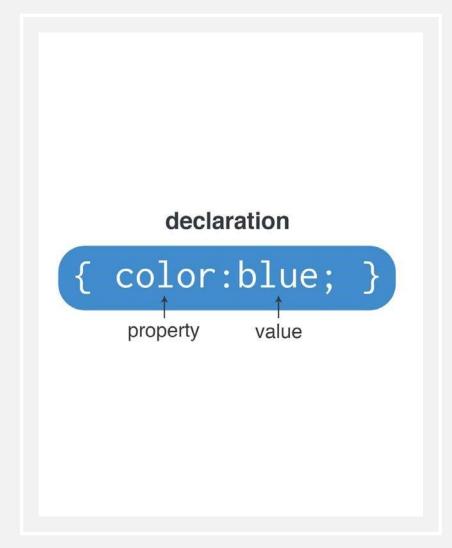
BASIC SYNTAX

Content:

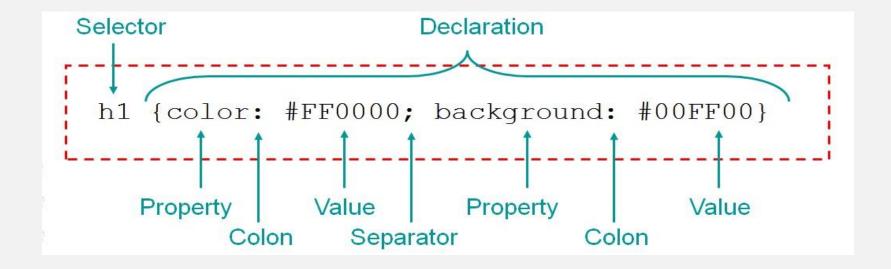
- I) Definition.
- 2) How to write a CSS syntax.
- 3) Example.

DEFINITION

- In a basic level, CSS consists of two building blocks:
- -Properties: It indicates the stylistic features (e.g. font, width, background color) which you want to change.
- -Value: Each specified property is given a value, which indicates how you want to change those stylistic features (e.g. what you want to change the font, width or background color to).



HOW TO WRITE A BASIC SYNTAX



• Without CSS

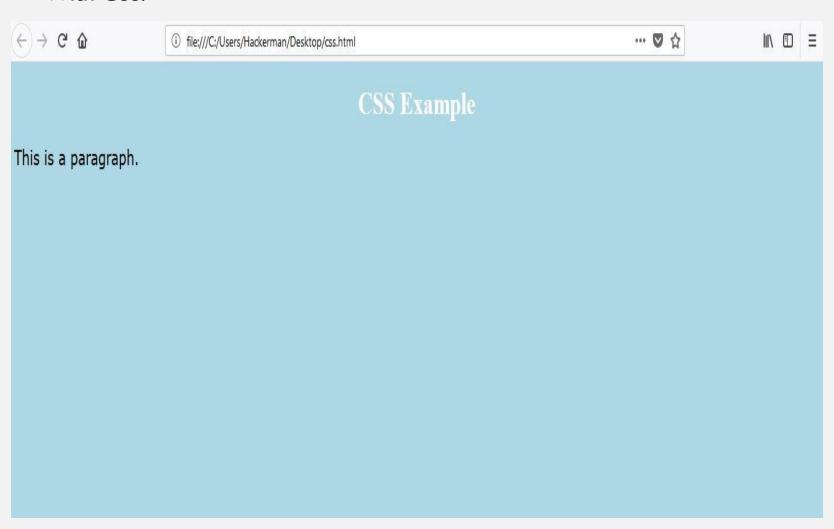
```
E css.html
       <! DOCTYPE html>
      -<html>
      -head>
      □<!--CSS code
       <style>
       body {
           background-color: lightblue;
  9
 10
 11
       h1 {
           color: white:
 12
 13
           text-align: center;
 14
 15
 16
           font-family: verdana;
 17
 18
           font-size: 20px;
 19
 20
       </style>
 21
       --->
 22
 23
       -</head>
 24
 25
      Ed<body> <!-- Background color: lightblue. -->
 26
       <hl>CSS Example</hl> <!-- Color: white, Text-align: center. -->
 27
       This is a paragraph. <!-- Font-family: verdana, Font-size: 20px. -->
 28
 29
 30
       -</body>
      </html>
```



• With CSS:

```
E css.html
       <! DOCTYPE html>
     -<html>
  2
     =<head>
  3
  4
  5
       <!--CSS code-->
      =<style>
  6
       body {
  8
           background-color: lightblue;
       }
  9
 10
 11
       h1 {
           color: white;
 12
           text-align: center;
 13
 14
       }
 15
 16
       p {
           font-family: verdana;
 17
           font-size: 20px;
 18
 19
 20
      -</style>
 21
 22
      -</head>
 23
     -> <body> <!-- Background color: lightblue. -->
 24
 25
       <hl>CSS Example</hl> <!-- Color: white, Text-align: center. -->
 26
       This is a paragraph.
<!-- Font-family: verdana, Font-size: 20px. -->
 27
 28
      -</body>
 29
      L</html>
 30
```

• With CSS:



HOW CSS WORKS ALONG WITH HTML?

External
Style sheet

Internal Style sheet

Inline style

It is a separate file where you can declare all the styles that you want to use on your website.

Embedded the style sheet within <style></style>tags in the <head> element.

The style is applied directly to the current Element.

EXTERNAL STYLE SHEET

```
<head>
<link rel="stylesheet" type="text/css" href="styles.css">
</head>
```

href: the path that you just create a file with the extension styles.css

<link> element will link the HTML code to the external style sheet

rel: describe the relationship between HTML page and the external file. The value should be "stylesheet"

type: the type of the file being linked to. The value should be text/css

styles.css

```
body {
    background-color: green;
}
h1 {
    color: blue;
    margin-left: 15px;
}
```

INTERNAL STYLE SHEET

```
<head>
<style>
body {
    background-color: green;
}
h1 {
    color: blue;
    margin-left: 15px;
}
</style>
</head>
```

You can try to run the code with your own html element and insert the internal style sheet

INLINE STYLE SHEET

```
<!DOCTYPE html>
<html>
<body>
style="color: blue">This text has been styled using inline style sheets.
</body>
</html>
```

Output

This text has been styled using inline style sheets.

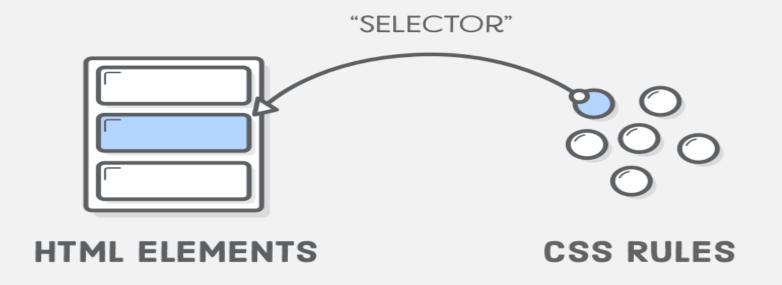
SELECTORS

Content:

- I) Definition.
- 2) Selector structure.
- 3) Example.

DEFINITION

- What do Selectors mean?
- In CSS, selectors are used to target the HTML elements on our web pages that we want to style. There are a wide variety of CSS selectors available, allowing for fine grained precision when selecting elements to style.



SELECTOR STRUCTURE

A selector and a declaration block in CSS rule-set:



CSS Selectors

Selector	Role Tag selector, all p tags	
p{ }		
#para{ }	Id para (unique)	
.para1{ }	Class para1 (multiple)	
p.para{}	P tag with class para	
P .para{}	P with child having class para	
div p{}	p tag having parent div.	
*{}	All tags{ Universal Selector}	
h1, h3, h5{}	Only h1, h3 and h5 (grouping)	
.para a{}	A with parent para class	
body{}	Parent of all tags	

Selector tag (body, p, h1, h2,...)

```
🔚 css.html 🗵 📙 selector1.html 🗵
        <!DOCTYPE html>
      -<html>
      -<head>
        <!--Change style selector p - paragraph-->
       =<style>
        p {
            color: red;
  8
  9
            text-align: center;
 10
 11
        -</style>
 12
 13
        </head>
 14
 15
       =<body>
 16
 17
        Hello World! <!-- Selector p - paragraph -->
        These paragraphs are styled with CSS. <!-- Selector p - paragraph -->
 18
 19
 20
        -</body>
 21
       </html>
← → G ®
                                                                               ... ☑ ☆
                   i file:///C:/Users/Hackerman/Desktop/selector1.html
                                               Hello World!
                                         These paragraphs are styled with CSS.
```

• Selector id:

```
📑 css.html 🔀 🔚 selector1.html 🔀
      <! DOCTYPE html>
  2
     -<html>
     -<head>
     =<style>
  4
      <!-- Only change style in selector id paral -->
  5
      #para1 {
  6
          text-align: center;
          color: red;
  8
  9
10
      -</style>
11
      </head>
12
     =<body>
13
14
      Hello World! <!-- Selector id - paral -->
15
      This paragraph is not affected by the style.
16
17
      -</body>
18
      </html>
```



i file:///C:/Users/Hackerman/Desktop/selector1.html



Hello World!

This paragraph is not affected by the style.

COLOR
PROPERTY
- RGB VALUE

For

RGB values: Value for red, green, blue are expressed the intensity as numbers between 0 and 255.

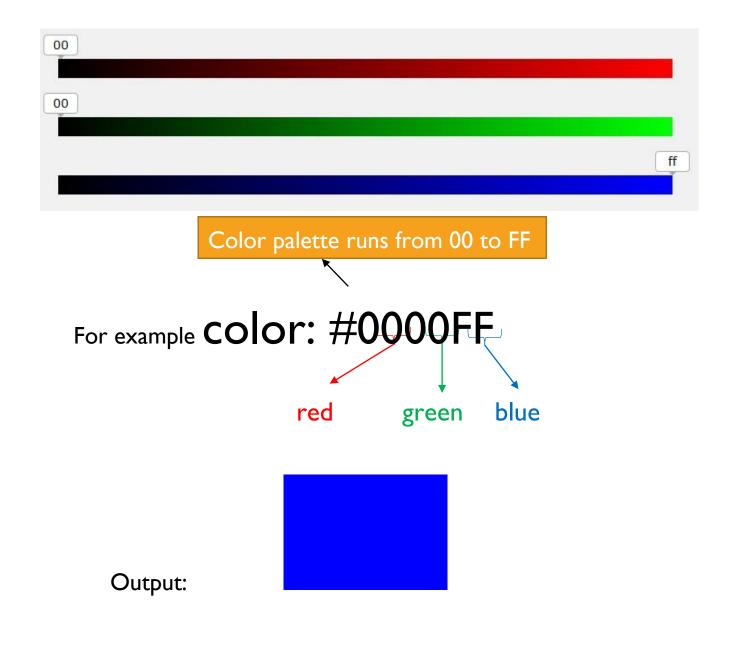


Output:

Always starts with the hash (#)

COLOR PROPERTY - HEX CODES VALUE

Hex codes is represented for red, green, blue by 6-digit codes which is between 00 and FF specifying an intensity of the color.

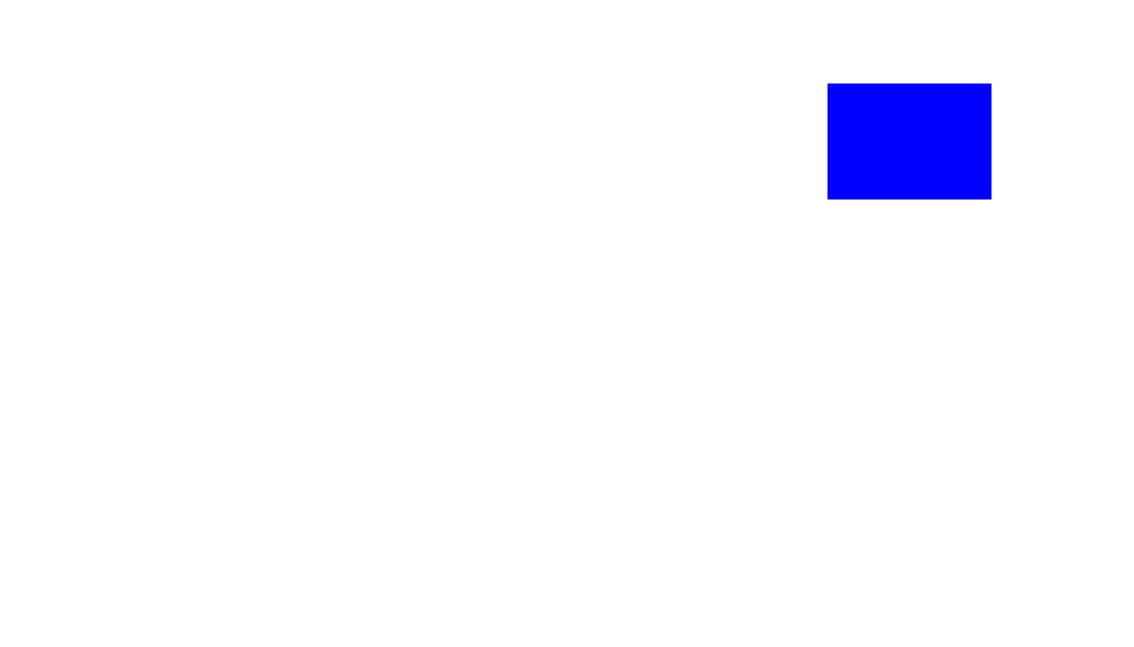


COLOR PROPERTY - COLOR NAMES

Color names is represented by predefined names which are 147 color names. It is very limited and hard to remember the name of each of colors.

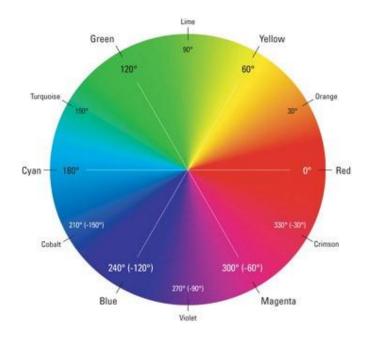
For example: color: blue

Output:



COLOR PROPERTY - HSL COLOR

HSL color stands for hue, saturation, lightness.



Hue is displayed as angles in the color wheel.

Saturation is the amount of gray and represented as a percentage with 0% is shade of gray, 100% is the full color.

Lightness is the amount of white and represented as a percentage; 100% is white, 0% is black

For example

```
background-color: hsl(180, 50%, 50%);

Lorem ipsum doloret dolore magna al aliquip ex ea comm
```

COLOR PROPERTIES-BACKGROUND COLOR

```
<head>
<style>
body {
    background-color:#ffbf00;
h1 {
    background-color: rgb(0, 191, 255);-
p {
    background-color: coral;
</style>
</head>
<body>
<h1>Background Color</h1>
Set a background color for only a part of a text.
</body>
```

Background Color

Set a background color for only a part of a text.

COLOR PROPERTIES-OPACITY

opacity property sets the opacity level for an element

Without opacity:

```
background-color: red;

background-color: red;

background-color: red;

background-color: red;
```

With opacity:

```
background-color: red; opacity: 0.5; Lorem ipsum dolor sit amet, corpulvinar felis blandit
```

TEXT PROPERTIES-FONT

- font-family lets you specify typeface that should be applied on text.
- font-size lets you specify the a size for your text with its units(pixels, points, ems, percent).
- font-weight lets you create bold text and it has two-value which are normal and bold.
- **font-style** lets your text appear in italic or normal.

```
p{
    font-family: Arial;
    font-size: 14pt;
    font-weight: bold;
    font-style:italic;
    Text goes here
```

TEXT PROPERTIES - FONT (CONT.)

Arial	(Helvetica Neue, Helvetica,)	Sample
Comic Sans	(Comic Sans MS, cursive)	Sample
Courier New	(Courier, monospace)	Sample
Geneva	(Verdana, Lucida Sans,)	Sample
Georgia	(Palatino, Palatino Linotype,)	Sample
Helvetica	(Helvetica Neue, Arial,)	Sample
Lucida Sans	(Lucida Grande,)	Sample
Palatino	(Palatino Linotype, Georgia,)	Sample
Times	(Times New Roman, Georgia,)	Sample
Trebuchet	(Trebuchet MS, Tahoma, Arial,)	Sample
Verdana	(Tahoma, Geneva, sans-serif)	Sample

font-family

Pixels	Points	Ems	Percent
8px	6pt	0.5em	50%
9px	7pt	0.55em	55%
10px	7.5pt	0.625em	62.5%
11px	8pt	0.7em	70%
12px	9pt	0.75em	75%
13px	10pt	0.8em	80%
14px	10.5pt	0.875em	87.5%
15px	11pt	0.95em	95%
16px	12pt	1em	100%
17px	13pt	1.05em	105%
18px	13.5pt	1.125em	112.5%
19px	14pt	1.2em	120%
20px	14.5pt	1.25em	125%
21px	15pt	1.3em	130%
22px	16pt	1.4em	140%
23px	17pt	1.45em	145%
24px	18pt	1.5em	150%
26px	20pt	1.6em	160%
29px	22pt	1.8em	180%
32px	24pt	2em	200%

Exchange font-size in each unit

TEXT PROPERTIES

- **text-align** lets you set the text alignment. It has four-value which are center, left, right, justify.
- **text-decoration** lets you specify for the text by: none, overline, underline, line-through, blink.
- **text-transform** is used to change the text form as following value: uppercase, lowercase, capitalize.
- text-shadow is used to drop dark shadow behind the word and slightly offset.

```
p{
    text-align: center;
    text-decoration: overline;
    text-transform: uppercase;
    text-shadow: 1.5px 1.5px #0000ff;
                               blue shadow
           LOREM IPSUM DOLOR SIT AMET...
```

TEXT PROPERTIES

```
h3 {
    letter-spacing: 3px;
    word-spacing: 10px;
}
```

lorem ipsum dolor sit

- **letter-spacing** enables you to set the space between each letter.
- word-spacing enables you to set the gap between each words.

TEXT PROPERTIES

- text-align lets you control the text alignment and it has four-value which are left, right, center, justify
- vertical-align is not used for aligning text; however, it is for using with table cell, inline element's box.

```
background-color: coral;
padding: 10px;

text-align: center;

Lorem ipsum dolor sit amet.
```

```
vertical-align: text-top:

img.a {
    vertical-align: text-top;
}

img.b {
    vertical-align: text-bottom;
}

vertical-align: text-bottom;
}
```

STYLING LINKS

- :link lets you set the state for links that have not been visited yet.
- :visited lets you set state for links that you have been visited or clicked on
- :hover shows that when user mouse over element.
- :active shows that when element is being pressed by user.

```
/* unvisited link */
a:link {
    color: red;
/* visited link */
a:visited {
    color: green;
/* mouse over link */
a:hover {
    color: hotpink;
/* selected link */
a:active {
    color: blue;
```

You can run in your own browser and experience the result.

Source code from w3school

BOX MODEL

It demonstrates how web page is rendered.

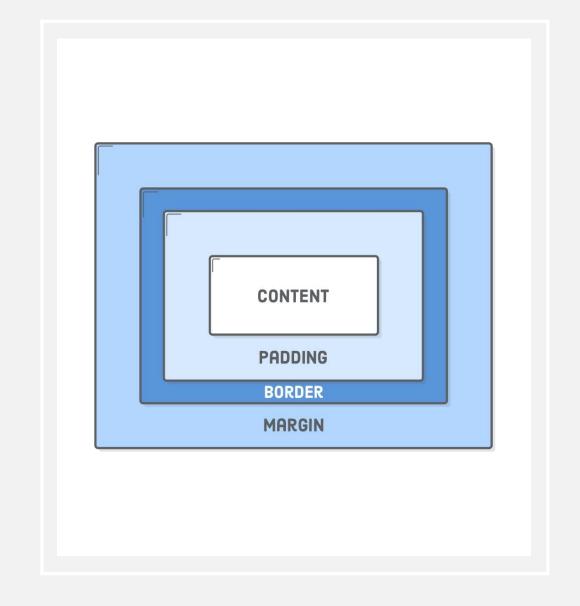
CSS treats each element in your HTML document as a "box" with a bunch of different properties that determine where it appears on the page.

In this chapter we will focus on:

Padding.

Borders

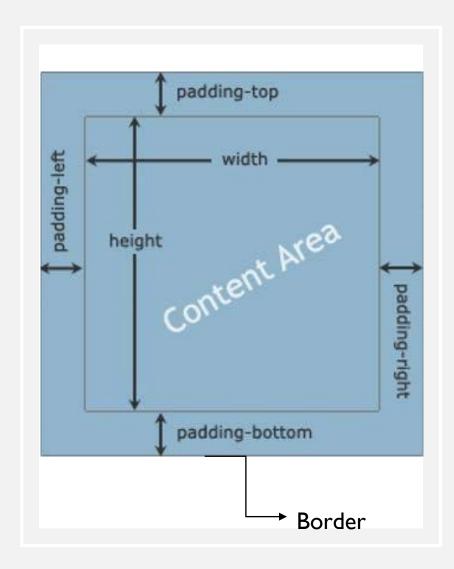
Margins



```
<!DOCTYPE html>
<html>
<head>
<style>
div {
   height: 100px;
   width: 400px;
   background-color: powderblue;
height:50px;
width:50%;
background-color: hotpink;
</style>
</head>
<body>
<div>
Lorem ipsum dolor sit amet, consectetur adipiscing 
</div>
</body>
</html>
```

Lorem ipsum dolor sit amet, consectetur adipiscing

BOX DIMENSIONS-WIDTH, HEIGHT You can try out with these following properties: min-width max-width min-height max-height



PADDING PROPERTY

It defines the padding for the selected element. Padding is the space between the border and element's content.

PADDING-PROPERTY(CONT.)

```
<!DOCTYPE html>
<html>
<head>
<style>
div {
    background-color: lightblue;
    padding-top: 50px;
    padding-right: 30px;
    padding-bottom: 50px;
    padding-left: 80px;
</style>
</head>
<body>
<div>Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do
eiusmod tempor incididunt ut labore et dolore magna aliqua. </div>
</body>
</html>
```

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

BORDER-PROPERTY

It is a line drawn around the content and padding of an element, the border separates the edge of one box from another.

Like padding, there are —left,-right,-bottom,-top for border property.

border: size style color

Or you can separate them with: border-width border-style border-color

```
div {

background-color: lightblue;
padding:20px;
border: 2px solid black;
}

Lorem ipsum dolor sit amet, consectetur adipiscing elit
```

You can try with the border style values as following: dotted, dashed, solid, double,...

```
<!DOCTYPE html>
<html>
<head>
<style>
body{
background-color:lightblue;
border: 2px solid hotpink;
margin-top: 100px;
margin-bottom: 100px;
margin-right: 160px;
margin-left: 100px;
background-color: coral;
</style>
</head>
<body>
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor
incididunt ut labore et dolore magna aliqua.
</body>
</html>
```

MARGINS-PROPERTY

Margins define the space outside of an element's border. Or the space between a box and its surrounding boxes.

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

LAYOUT OF WEBSITE

- 1) Structure of website.
- 2) Header.
- 3) Navigation Bar.
- 4) Content.
- 5) Footer.

STRUCTURE OF WEBSITE

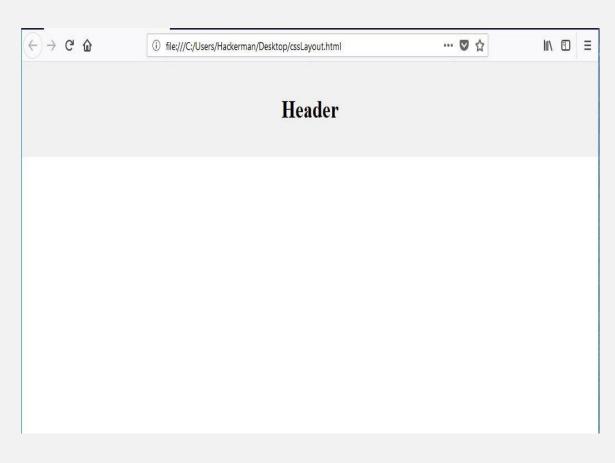
A basic website layout is often divided into 4 parts:



However, we have many kind of layouts. The layout above is one of the most common.

HEADER

Create a header layout:

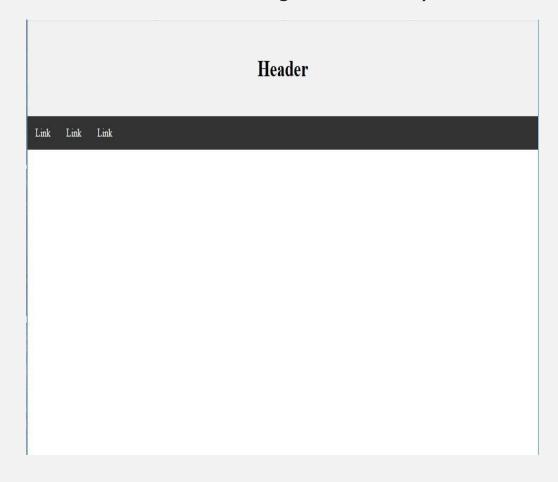


```
🔚 cssLayout.html 🗵
       <! DOCTYPE html>
     -html lang="en">
     =<head>
  3
  4
       <title>CSS Website Layout</title>
       <meta charset="utf-8">
  6
       <meta name="viewport" content="width=device-width, initial-scale=1">
     =<style>
  8
       body {
  9
         margin: 0;
 10
 11
 12
       /* Style the header */
 13
       .header {
 14
           background-color: #f1f1f1;
 15
           padding: 25px;
           text-align: center;
 16
 17
 18
      -</style>
 19
      -</head>
 20
     =<body>
 21
 22
     --
 23
         <hl>Header</hl>
 24
      -</div>
 25
 26
      -</body>
 27
      </html>
 28
```

NAVIGATION BAR

LAY OUT

Continue to create navigation bar in layout:



CODE

* Code for navigation bar and add it below the header code in body:

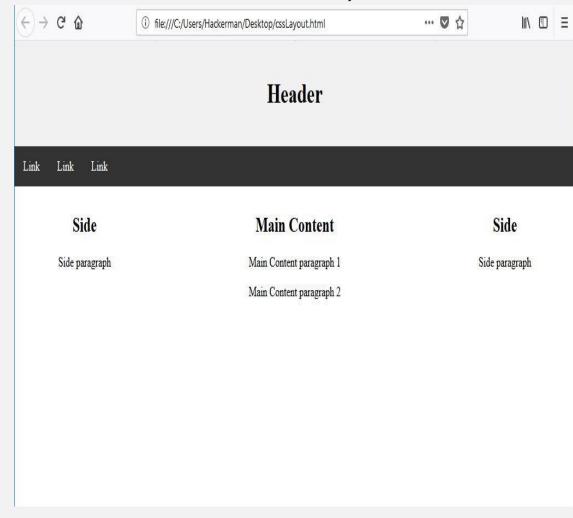
* Add these code to style:

```
/* Style the top navigation bar */
.topnav {
   overflow: hidden;
   background-color: #333;
/* Style the topnav links */
.topnav a {
   float: left;
   display: block;
   color: #f2f2f2;
   text-align: center;
   padding: 14px 16px;
   text-decoration: none;
1
/* Change color on hover */
.topnav a:hover {
   background-color: #ddd;
   color: black:
```

CONTENT

LAY OUT

Continue to create content in layout:



CODE

Code for content and add it below the navigation code in body:

| Code for content and add it below the navigation code in side | Code for content and add it below the navigation code in side | Code for content and add it below the navigation code in side | Code for content and add it below the navigation code in side | Code for content and add it below the navigation code in side | Code for content and add it below the navigation code in side | Code for content and add it below the navigation code in side | Code for content and add it below the navigation code in side | Code for content and add it below the navigation code in side | Code for content and add it below the navigation code in side | Code for content and add it below the navigation code in side | Code for content and add it below the navigation code in side | Code for code for code for code for code for code | Code for code for

Add these code to style:

```
/* Create three unequal columns that floats next to each other */
.column {
   float: left;
   padding: 10px;
    text-align: center;
/* Left and right column */
.column.side {
   width: 25%;
/* Middle column */
.column.middle {
   width: 50%;
/* Clear floats after the columns */
.row:after {
    content: "";
   display: table;
   clear: both;
```

FOOTER

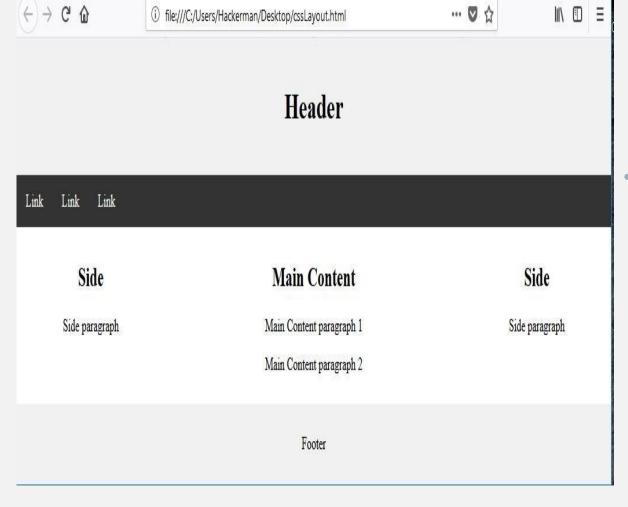
II\ □ Ξ

... ♥ ☆

LAY OUT

ifile:///C:/Users/Hackerman/Desktop/cssLayout.html

Continue to create footer in layout:



CODE

Code for footer and add it below the content code in body:

```
<div class="footer">
 Footer
</div>
```

Add these code to style:

```
/* Style the footer */
.footer {
   background-color: #f1f1f1;
   padding: 10px;
   text-align: center;
```

GIVING FEEDBACK AND CONTRIBUTION





IF THERE ARE SOME GIVING FEEDBACK.
MISTAKES, YOU CAN
FREELY REPORT IT.





ANY SUGGESTION?

THANK YOU FOR YOUR TIME!