

CSS

Cascading Style Sheets



html



html with css

What is CSS ?

↓ content ↗

It is a language that is used to describe the **style** of a document

text
color
bg color
button

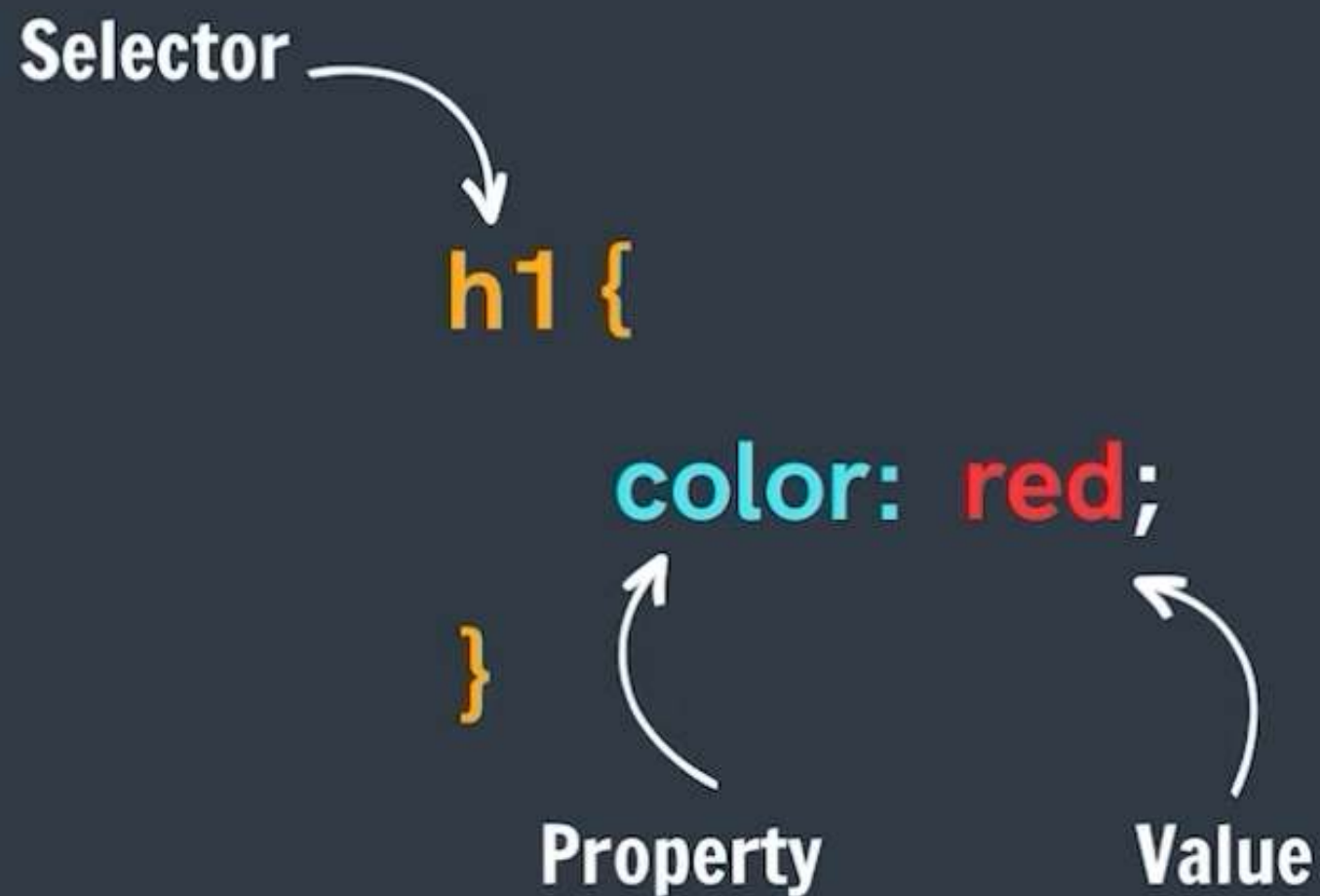


⋮

↑ properties

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Basic Format of CSS



How to Include Styles?

- **Inline Styles**

Writing style directly inline on each element

```
<h1 style="color: red"> Apna College </h1>
```

```
<body>
  <!-- Inline Style -->
  <h1 style="color: ■ red">Apna College</h1>
  <h1 style="color: ■ red">Shradha Khapra</h1>
  <h1 style="color: ■ red">Hello World!</h1>
  <p style="color: ■ pink">This is a paragraph.</p>
  <button style="color: ■ blue; background-color: ■ orange">Help</button>
</body>
```

How to Include Styles?

- Using `<style>` tag

Style is added using the `<style>` element in the same document



```
<style>  
    h1 {  
        color : red;  
    }  
</style>
```

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-sca
    <title>CSS Chapter 1</title>
    <style>
      h1 {
        color: red;
      }
    </style>
  </head>
  <body>
    <!-- Inline Style -->
    <!-- <h1 style="color: red">Apna College</h1>
    <h1 style="color: red">Shradha Khapra</h1>
    <h1 style="color: red">Hello World!</h1>
    <p style="color: pink">This is a paragraph.</p>
    <button style="color: blue; background-color: orange">Help</bu

    <!-- Style Tag -->
    <h1>Apna College</h1>
    <h1>Shradha Khapra</h1>
    <h1>Hello World!</h1>
  </body>
</html>
```

How to Include Styles?

- **External Stylesheet**

Writing CSS in a separate document & linking it with HTML file



Linking HTML with CSS File

<head>

<link rel="stylesheet" ~~ref~~="style.css">

</head>

↓
relation

href

↓
file path

Color Property

Used to set the color of foreground

```
color : purple;
```

```
color : #ffffff;
```

background
foreground

Text

Background Color Property

Used to set the color of background

`background-color : purple;`

`background-color : #ffffff;`

Practice Qs

Write CSS for these Elements according to the given style guidelines:

Hi there!

My name is Tom & I am there to help you.

Need Help

h2 : orange text

button : blue background color
white text

p : black background color

Color Systems

Named Colors

color = black;

Each browser recognizes around 140 named colors.

Eg - red, blue, pink, purple, magenta, teal etc.

Color Systems

RGB

`color = rgb(0, 0, 0);`

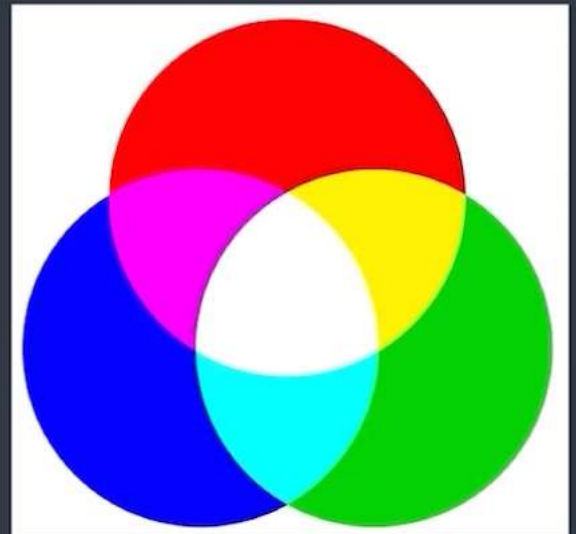
Red Green Blue (0-255)

red is `rgb(255, 0, 0)`

black is `rgb(0, 0, 0)`

blue is `rgb(0, 0, 255)`

yellow is `rgb(255, 255, 0)`



Color Systems

Hexadecimal or Hex

color = #FFFFFF;

Letters : 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B, C, D, E, F

Number Systems

Decimal (math)

Digits: 0 to 9

used in daily math

base 10

Binary

Digits: 0 & 1

used in computers

base 2

Hexadecimal

8 16

0-9 A,B,C,D,E,F (16 chars)

[hexcode / color system]

base 16

Color Systems

Hexadecimal or Hex

#ffa511



#000000

#0000ff

#ffff00

Practice Qs

Write the hexcode equivalent to rgb(255, 255, 255) and tell what color is it.

Write the best possible rgb and hexcodes for following colors.



Text Properties

text-align

font-weight

text-decoration

line-height

letter-spacing

font-size

text-align

└───────────> parent element

`text-align: left / start`

`text-align: right / end`

`text-align: center`

`text-align: justify`

font-weight

font-weight: normal //400

font-weight: bold //700

font-weight: 100

font-weight: bolder

font-weight: lighter

text-decoration

sets the **appearance of decorative lines** on text like underline

text-decoration: underline

text-decoration: overline snehagupta7385@gmail.com

text-decoration: line-through

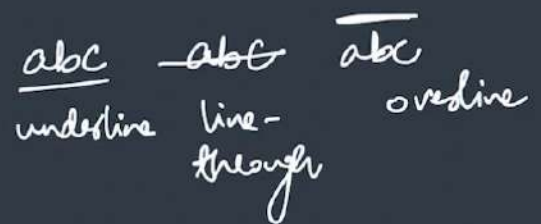
text-decoration ✓

sets the **appearance of decorative lines** on text like underline

text-decoration: underline

text-decoration: overline

text-decoration: line-through



abc
underline

abc
line-through

abc
overline

snehagupt

text-decoration

text-decoration: **red** underline

text-decoration: **wavy** overline

text-decoration: **dotted** line-through

line-height

controls the **height** of the line of text

line-height: normal

line-height: 2.5

letter-spacing

controls the **horizontal spacing** behavior between text characters

letter-spacing: normal

letter-spacing: 10px

px = pin

abc

a↔b↔c

Font-size **units** in CSS

Absolute

px

pt

pc

cm

mm

in

Relative

%

em

rem

ch

vh

vw + many more

Pixels (px)

most commonly used absolute unit

96px = 1 inch

not suitable for responsive websites

font-size: 50px ;

font-family → type

specifies a prioritized list of one or more font family names

font-family: arial ;

font-family: avant garde, didot, sans-serif ;

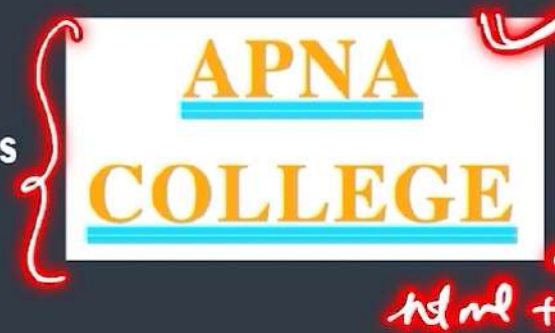
backup family
of fonts



Practice Qs

Design the given Apna College logo using CSS instructions

- set the font-family to League spartan
- set the color of text to #ffa511
- center align the text
- make the text size 55px & font-weight 900
- set spacing between letters to 2px
- set the line height to 1.5x the normal value
- add a teal double underline
- uppercase all the letters only using css (use Google)



CSS (Part 1)

Practice Questions

We are going to write CSS for the following code :
(Please copy-paste or re-write this code in your HTML file)

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8" />
<meta http-equiv="X-UA-Compatible" content="IE=edge" />
<meta name="viewport" content="width=device-width,
initial-scale=1.0" />
<link rel="stylesheet" href="abc.css" />
<title>CCS Assignment-1</title>
</head>
<body>
<!-- Poem Name -->
<h1>Ozymandias</h1>
<!-- Poet's Name -->
<h3>by Percy Bysshe Shelley</h3>
<!-- Poem -->
<p>
I met a traveller from an antique land,<br />
Who said—"Two vast and trunkless legs of stone<br />
Stand in the desert. . . . Near them, on the sand,<br />
```


Half sunk a shattered visage lies, whose frown,

And wrinkled lip, and sneer of cold command,

Tell that its sculptor well those passions read

Which yet survive, stamped on these lifeless things,

The hand that mocked them, and the heart that fed;

And on the pedestal, these words appear:

My name is Ozymandias, King of Kings;

Look on my Works, ye Mighty, and despair!

Nothing beside remains. Round the decay

Of that colossal Wreck, boundless and bare

The lone and level sands stretch far away."

</p>

<hr />

<h4>

Read up more about the poem on

Wikipedia

</h4>

<textarea placeholder="Leave your comments here
..."></textarea>

<button>Comment</button>

</body>

</html>

Qs1. Set the background page to color "wheat", by using an inline style.

Qs2. Change the color of the poem in the page to brown (use the hex code for color).

Qs3. Align all the headings & the poem to the center of the page.

Qs4. Change the color of the poem to red & the poet's name to black.

Qs5. Change the font of the entire document to the font - Georgia.

Qs6. Set the color of the Wikipedia link to green & remove its underline (use the rgb value for color).

Qs7. Change the button background color to white & button text to blueviolet.

Qs8. What is the hex code for black color? Set the textarea font color to black.

Qs9. Set the poem's line-height to 30px.

Qs10. Underline only the word Ozymandias inside the poem.

CSS (Part 1)

Practice Solutions

Ans 1

Simply add the background color in the body tag.

```
<body style="background-color: wheat">
```

Ans 2 to Ans10

Create a separate CSS file and link it with your html code.

In the CSS file write the following code :

```
p {  
    color: brown;  
    text-align: center;  
    line-height: 30px;  
}  
  
h1 {  
    text-align: center;  
    color: red;  
    font-family: Georgia;  
}  
  
h3 {  
    text-align: center;  
    color: black;
```

```
}

a {
  text-decoration: none;
  color: green;
}

button {
  background-color: white;
  color: blueviolet;
}

textarea {
  color: black;
}

span {
  text-decoration: underline;
}
```

In Qs 10, put the word 'Ozymandias' inside a span element. And then set the property text-decoration for the span element.

As shown in the line:

```
My name is <span>Ozymandias</span>, King of Kings;<br />
```