

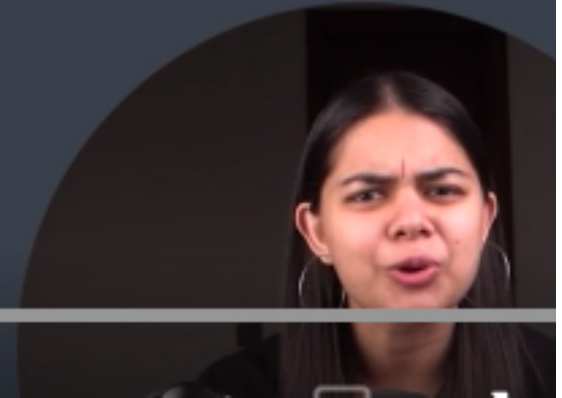
# CSS

## Cascading Style Sheets



html

html with css



# What is CSS ?

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



# Basic Format of CSS

Selector

h1 {

color: red;

}

Property

Value



# How to Include Styles?

- **Inline Styles**

Writing style directly inline on each element

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

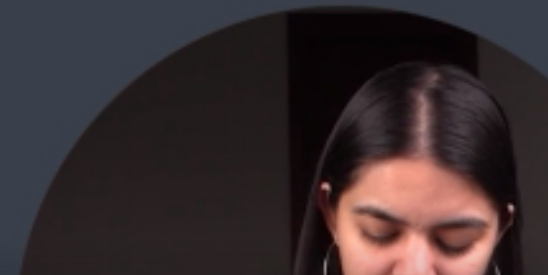


# How to **Include** Styles?

- Using **<style>** tag

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

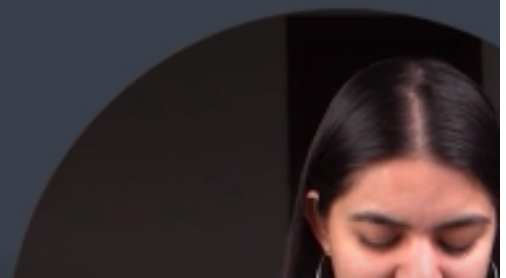
```
<style>  
  h1 {  
    color : red;  
  }  
</style>
```



# 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>
```

# Color Property

Used to set the color of foreground

```
color : purple;
```

```
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  
white text



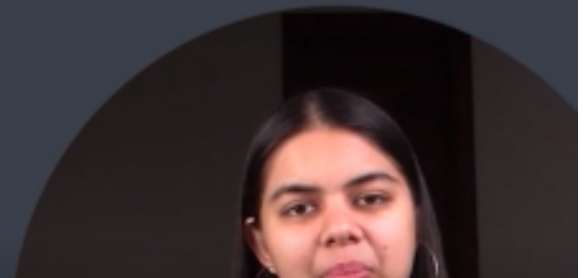
# Color Systems

## 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);
```

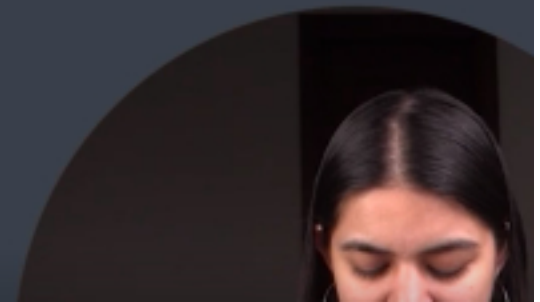
Red Green Blue (0-255)

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

RGB ✓  
→ 1. ✓

Red Green Blue (0-255)

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

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

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

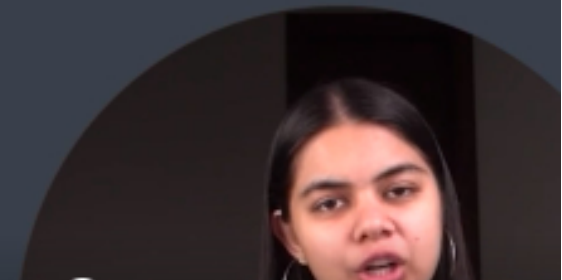
yellow is `rgb(255, 255, 0)`

`color : rgb(255, 0, 0)`

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



Red channel  
Green channel  
Blue channel

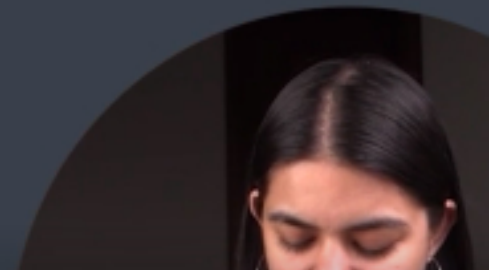


# Color Systems

## 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



# Number Systems

## Decimal (math)

Digits: 0 to 9

used in daily math

base 10

0-9 0-9 0-9

000 - 999

## Binary

Digits: 0 & 1

used in computers

base 2

0,1 0,1 0,1

000  $\leftrightarrow$  111

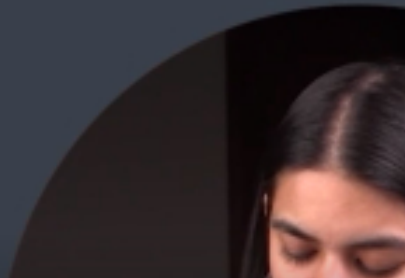
## Hexadecimal

6 10

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

hexcode / color

base 16



# Color Systems

## Hexadecimal or Hex

R: 0 - 255  
hexcode: 00 - ff

#ffa511

#000000

#0000ff

#ffff00





# Text Properties

text-align

font-weight

text-decoration

line-height

letter-spacing

font-size

# text-align

└──────────→ parent element

CSS3

e

text-align: left / start

text-align: right / end

nit.kumarsingh.cse26@heritageit.edu.in

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`

`text-decoration: line-through`

## 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

# line-height

abc  
def ↑

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

line-height: normal

[asmit.kumarsingh.cse26@heritageit.edu.in](mailto:asmit.kumarsingh.cse26@heritageit.edu.in)

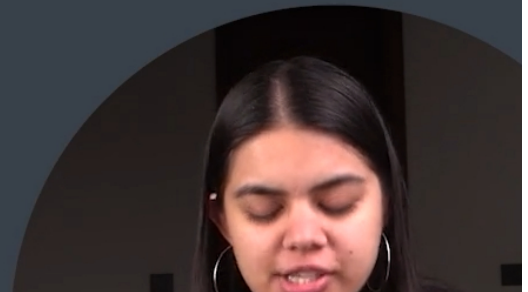
line-height: 2.5

# letter-spacing

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

letter-spacing: normal

letter-spacing: 10px





# Font-size units in CSS

cm ✓

## 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



apnacollege.in is now full screen

Exit Full Screen (Esc)

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)

