

By using some pre-defined text and make some changes automatically.

Tags:-

Heading tag :-

- It is used to make the text bold and increase the height of the text.
- There are 6 types of heading tags.

<h1> ... </h1> — Big size

<h2> ... </h2>

<h3> ... </h3>

<h4> ... </h4>

<h5> ... </h5>

<h6> ... </h6> — small size

Paragraph tag :-

- It is used to convert the text into paragraphs.

Ex:- <p> ... </p>

Break tag
 :-

 tag is used to break the text and move to the next line.

<hr> tag :-

<hr> tag is used to break text and draw a horizontal line in between the text.

 tag :-

To create the content in Separate, but the text will be present in same line.

Ex:- <p> Telephone :
1234567 </p>

One block text with some part present

<!DOCTYPE HTML>

<html lang = "en">

<head>

<meta charset = "UTF-8">

<meta name = "viewport" content = "width= device-width, initial-scale = 1.0">

<title> Document </title>

</head>

<body>

<p> Name:
js spiders </p>

</body>

</html>

One block text with some part present

HTML Styles

bgcolor :- If we want to change the background colour

Ex :- `bgcolor="black"`

text :- It is used to change the color of the text

Ex :- `text = "Red"`

align :- Used to change the alignment i.e.,

left, right, center

Ex :- `align = "right"`

background :- It is used to set an background

image

Note :- If the image is in same folder then we

use `./`

If the image is in outside the folder then

we use `../`

Ex :- `background = "./download.jpg"`

Character Formatted Tags

 :- It is used to bold the text

<i></i> :- Used to italic the text

<u></u> :- Used to underline the text

 :- Used to bold the text

 :- Emphasize Used to italic the text

<big> </big> :- It is used to increase the size of the text.

<small> </small> :- Used to decrease the size of the text

<strike> </strike> :- Used to strike the text.

**** :- Superscript is used to print the text above the text

Ex :- $\underline{200}^2$

**** :- Subscript print the text below the text Ex :- $\underline{\log_{10}} 2$

Image tag :- Used to add an image, it is a singular tag

Syntax :- ``

→ Src means source address of the image

it can be done by 3 way

1. By using :

2. By using ..

3. By directly copying the address of the image.

→ height means height of the image

→ width means width of the image

→ alt means if the source (src) is not working

then the alt will work and display the msg in after.

Creating a link

It has an anchor tag `<a>` if it is used to create the link of the another page.
 → It provides the link between two (or) more webpages.

Syntax :- ` --- `
``
`--- `

Here, means to open the next webpage in the same tab (-self), (or) it will open in different tab (-blank).
 → href means address of the webpage.

Audio tag :-

`<audio muted controls src = ". / address">`
`</audio>`

Video tag :-

`<video muted controls src = ". / address" >`
`autoplay loop height = "300" width = "500" >`
`</video>` (Autoplay works when it's muted)

→ Iframe means inline frame used to play the video in the webpage by copying the URL every video will not play, the videos which do not have copyright will play.

Ex:- click on more and copy click on embed (<>) and copy the address.

Marquee Tag

<marquee direction = "right/left/up/down">

height = "pixels"

width = "pixels"

behaviour = "scroll/slide/alternate"

scroll amount = "pixels"

scroll delay = "pixels" millsec

</marquee>

loop = "pixels"

slide - used to scroll only once, outside the page

alternate - starts inside the page

scroll - outside the page

loop - how many time looping we want we can set

(bottom)
 <div> <div>

<"002" attributes> <div> <div>

<"002" attributes> <div> <div>

(bottom 2 divs 2 rows of the page)

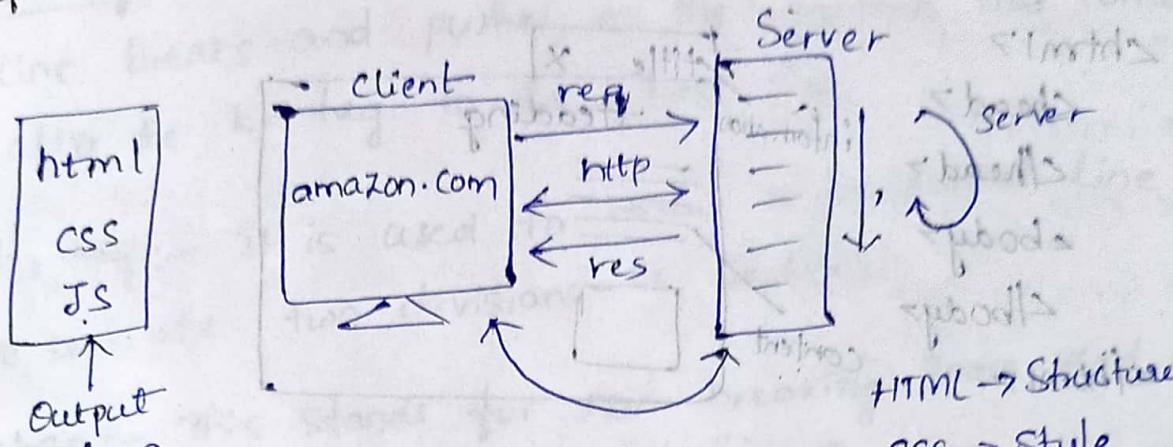
at first it will start from main menu & move to

1st row of priges & then goes to 2nd row of divs

then after 2nd div it goes to 1st row of divs & move to 1st row of divs again

Domain : www.name.com

IP address : unique address Ex: 1.2.7.63



HTML : Hypertext Markup Language

Tags or elements:

→ single tags <tagname/>

→ double tags <Tagname> ... </Tagname>

Structure of HTML

<html>

<head> </head>

<body>

</body>

</html>

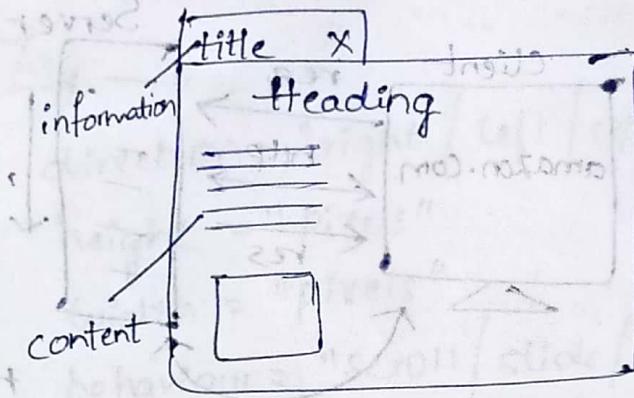
HTML is used a markup language and used for web development. All the content for a webpage is written using tags or elements.

<html> → It specifies the root of an html document.

<head> → Head tag represents the metadata of an html document.

`<body>` → Body tag represents the content of a html document

```
<html>
  <head>
    </head>
  <body>
    </body>
</html>
```



`<title>` → used to display title or name of a webpage.

`<heading>` → It is used to define headings of a page in different levels & it is done by `h1, h2, h3, h4, h5, h6`. The most important heading is written using `h1` tag.

- The font size goes on decreasing from `h1` to `h6`
- By default all the headings will be bold.

`<paragraph>`:

→ `p` tag is used to display paragraph or long description

→ paragraph will be regular sized texts

`
`: line break

` `: non-breaking space

`<hr>`: horizontal rule

Attributes

br tag:- It is used a single tag that is used for line breaks and pushes all the contents that come after the br tag to the next line.

hr tag:- It is used to draw a horizontal line to separate two divisions or sections.

nbsesp:- This stands for non-breaking space used to give space in between the contents.

Attributes

- Attributes are the properties that has the ability to change the behaviour of an element and also adds the additional functionality for the element.

Syntax:- <tagname attribute = "value"> </>

- Attributes are always written within the start tag of an element.

- Images can be displayed with the help of img tag

- Image tag is a single tag that has four attributes

src (source) - This contains the path or an address of an image.

height & width - Used to alter the height and width of the image.

alt (alternate) - When the image fails to display the text written within the alt attribute will be displayed as an alternate of image.

Character formatting tags :-

- * **BOLD** → ``, ``
- * **Italic** → `<i>`, ``
- * **underline** → `<u>`, `<ins>`
- * **Big** → `<big>`
- * **Small** → `<small>`
- * **strike** → `<strike>`
- * **Delete** → ``
- * **Subscript** → `<sub>`
- * **Superscript** → `<sup>`

Marquee tag :-

Marquee tag are used to Create Scrolling contents

Attributes of marquee tag

1. Behaviour:

- * It specifies the type of scroll
 - scroll (default)
 - alternate
 - slide

2. Attribute Direction:

- * It specifies the direction in which the content should scroll

- up → Right
- down → left

3. Scroll amount:

- * Using this attribute we can Control the Speed of scroll

* Higher the value higher the speed.

24. bgcolor:
- used to change the background colour of marquee section.

5. height + width:

- We can alter the height and width of marquee section.

Links

Anchor tag:

Anchor tag is used to create links that helps us to redirect or navigate between different webpages.

Attributes of anchor tag

- href [hyper reference] - It specifies the destination path. or address of the link.

- The href values can be url's of the different web pages or path of specific files.

target:

- It specifies where to open the destination page.
- By default all the links opens within the same page and "blank" will open the page in a new tab or a window.

- Images can be made as link by writing the image tag within anchor tag.

Media tags

- we use audio and video tags to display media files like mp3 file or mp4 file.

Attributes

- `src(source)` → It defines Source or path of the file
- `Controls` → It defines various options to control a video or audio file [play, pause, accelerate, mute, unmute]
- `Muted` → It mutes the video or audio by default.
- `Autoplay` → This plays the file as soon as the page loads
- `poster` → It displays an image before the video starts playing.
- `loop` → The video or audio file keeps on playing continuously.
- `Height & width` → we can alter the size of video file

Audio tag does not support poster, height & width attributes, autoplay.

Lists

To display the similar type of item, we can make use of three types of lists in html

1. Unordered list :-
It is denoted by `` where there is no importance for the priority of item.

- All the list items are written within tag.

Attributes:

- * type → It specifies the type or style of the unordered list.

→ disc (default)

→ circle

→ square

2. Ordered list:

The is used to display the list of items where the priority is given importance.

- * type → It specifies the type or style of Ordered list

→ none
→ upper Roman
→ Lowercase Roman

→ uppercase Alphabets

→ Lowercase Alphabets

- * start → It specifies the start index of the ordered list
- The value for start attribute will always be number.

3. Definition list:

- It is denoted by <dl> tag which is used to describe a list of lines.

- The term is written within <dt> tag and <dd> tag is used to write the description for the term.

<dl>
<dt> html <dt>
<dd> == <dd>

</dl>

Iframes:

This element is used to display an active document or a video in your webpage.

Attributes

- src : Contains the source of the document.
- frame border : add an outline border for the document when the value is one else zero.
- allow : It contains all the youtube supported features for a particular video.
- allow full screen : It enables the fullscreen option for a video.
- height & width : Used to alter the height & width.

Meta tags:

- Meta tags are snippets of the code that describes a page content.
- This meta tags will not display on the webpage and instead sends the message information that helps the browser or the search engine what a web page is all about.
- Meta tags can contain data like author information, description, about web pages, keywords related webpages etc.

Tables

- Tables are used to display data in terms of rows and columns. HTML uses `<table>` tag to design a table which gives outer structure for a table. In order to create rows for a table use `<tr>` tag.
- The headings are written using `<th>` tag and `<td>` tag used for data or value.

Rowspan & colspan

Rowspan & colspan are the attributes given to the `<th>` and `<td>` tag which is used to specify the no. of rows and columns to merge.

- Rowspan attribute merge more than one row.
- Colspan attribute merge more than one column.

Forms

- In HTML a form is used to collect the user input and sends it to the Server for further processing.

- `form` element is used to create an HTML form where the data or values is entered using `input` tag.

- `label` tag is used to name to particular input tag.

- `text area`: For large inputs we use `text area` tag where the size can be varied using `rows` and `columns` attribute.

Select tag: It creates a drop down list where the user can select from the list of options.

- Options are displayed using option tag

Attributes of input tag:

1. type:

It displays the type of input that a user should enter.

- | | | |
|----------|------------|------------|
| - list | - password | - checkbox |
| - tel | - date | - submit |
| - number | - radio | - reset |
| - email | - file | |

2. Name:

- It specifies the key where the value will be stored in the backend.

3. placeholder:

Used to display texts written in the input field before the user enters the data.

4. required:

Used to make an input field mandatory.

5. Min length & Max length:

It specifies the no. of characters must be entered in the input field.

6. Min and Max:

Specifies minimum & maximum value that a user should enter.

7. Action:

It specifies the action should be performed once the file is submitted.

CSS

(Cascading Style sheet)

repeated style

There are 3 ways

1. inline CSS

2. internal CSS

3. External CSS

1. inline CSS :- Style is a property

body>
<h1> style="color: blue; background-color: aqua;">
<h1> style="color: blue; background-color: aqua;"> (inline overwrites the internal and external CSS)

2. internal CSS :- style is a tag

- we will use inside the head tag.

- if we will apply internal style it will affect to the whole page
ex:- if we use <p> and use internal CSS and it will affect to the whole <p> in the body

<head>

<style> p {

background-color: brown;

color: white;

</style>

3. External CSS :-

we can write the code outside the HTML and

we can link the page with our HTML doc

by using <link> tag

<link> tag has 2 properties

<link rel="relation">

hyper reference

Ex:- ~~style~~ Style.css

```
p {  
    background-color: blue;  
    color: purple;  
}
```

css - html

<html>

```
<head>  
    <link rel="stylesheet" href="style.css" />  
    for icon <link rel="icon" href="img address"/>  
</head>
```

<html>

Background

```
background-color:  
background-image: url();  
background-size: contain  
    cover  
background-position: top, bottom, left, right, center  
background-repeat: repeat, no-repeat, repeat-x,  
repeat-y
```

color:

height: pixels (100px);

width: pixels (200px);

background: linear-gradient (top, color, color...);
bottom
left
right
120deg
degree

Font

Font-size: pixels

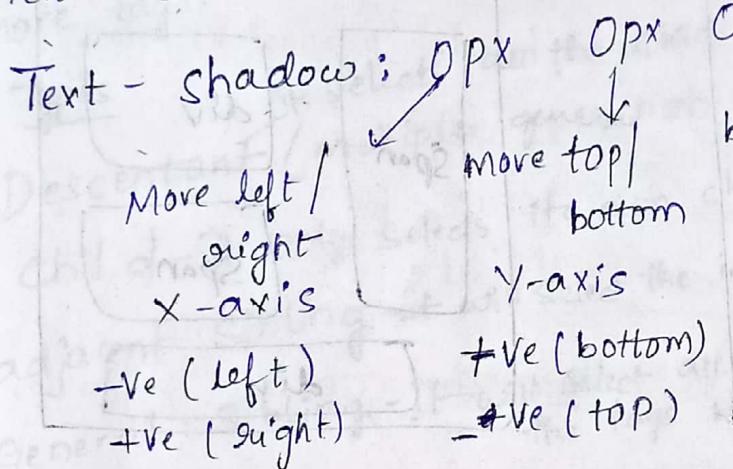
Font-weight: bold, lighter, 100-900

font-family:

Text

(Text-align: left, right, center)

Text-indent: pixels.



Opx - color,
blur the text.
Blur effect

letter-spacing - pixels (Give space b/w letters)

word-spacing - pixels (Give space b/w words)

Syntactics

There are 2 types of syntactic tag

Syntactic tags

Syntactic tag

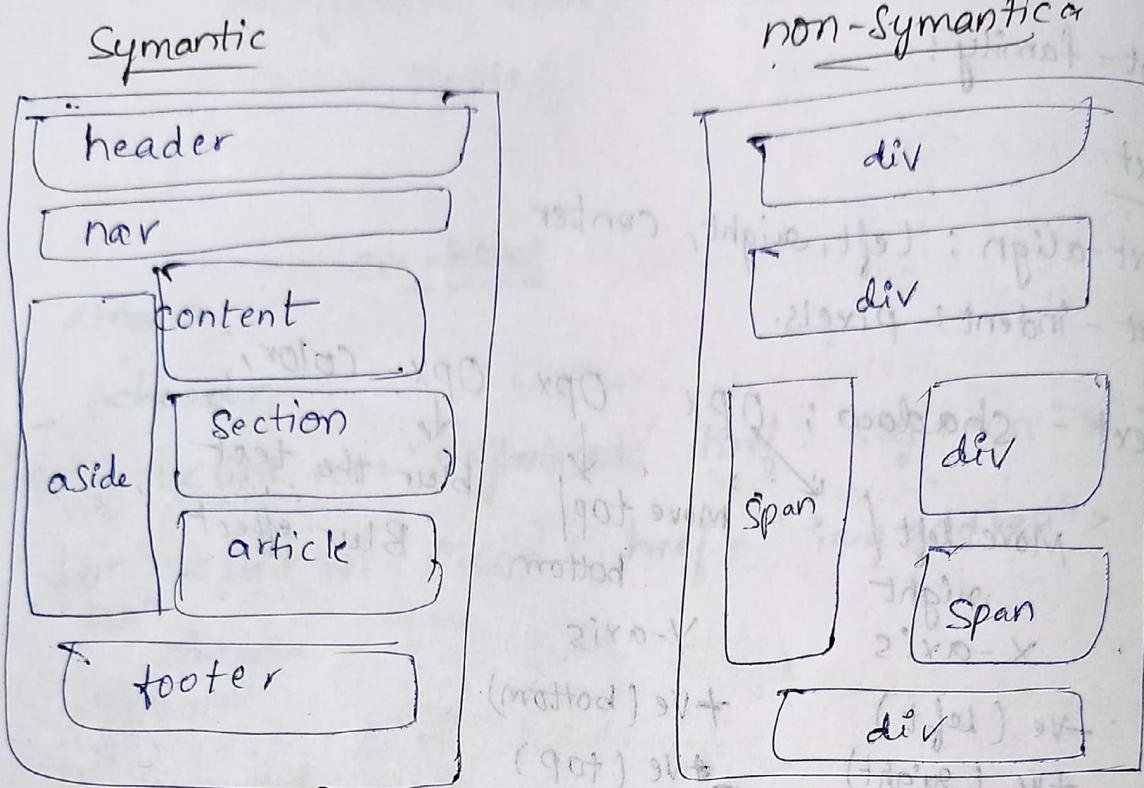
- + header
- footer
- aside
- section
- nav
- article

non-Syntactic tags

- div

- span

- Symantics are the names given for the sub divisions of html



Types

1. Symantic tags :- The tags are the elements which have some particular meaning in their name is known as Symantic tags

2. Non-Symantic tags :- The tags which don't have any specific meaning in their name is known as non-Symantic tags.

* Selectors

Types It will apply for every tag
Universal \rightarrow * Least priority

Type \rightarrow h1, p, div, ...

Class \rightarrow .classname (. operator)

Id \rightarrow #idname — High priority (# operator)

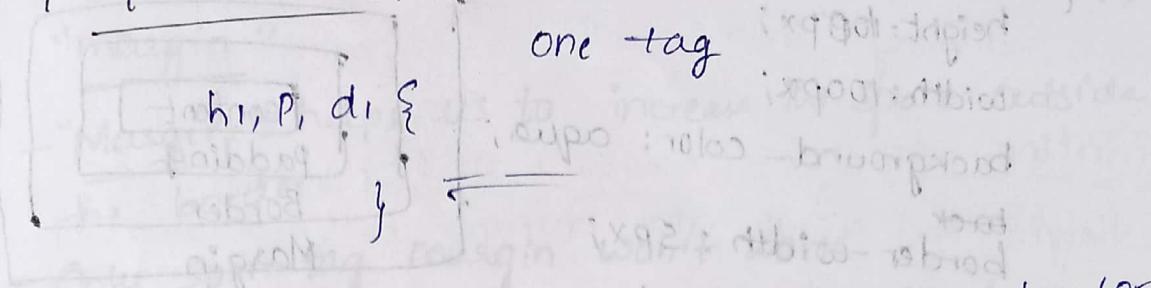
Priority

Universal < type

type < class

Class < Id

Group Selector (,) : we can combine more than one tag



* Combinators :-
will use some operator to combining two (or) more tags.

Types

Descentant (multiple generation of child)
child - It only selects its own child.
adjacent sibling - it will select the immediate next tag
General sibling - it will select all the siblings/all the tags which are using same parent

- Descentant is used by using space - prbbq

Eg:- .GF h1 { color: red; }

- child is used by using ">" symbol

Eg:- .GF> h1 { color: red; }

- adjacent sibling is used by "+" symbol

Eg:- h1+p { color: red; }

- General sibling is used by "~" tilde symbol.

h1~p { All the <p> tag will select in the same generation. }

y

Box Model

e.g - h1 {

```

height: 100px;
width: 100px;
background-color: aqua;
border-width: 5px;
border-color: red;
border-style: groove / dotted / solid / dashed;

```



- There is a property for all border properties they are "border: 10px and dashed;
 - Instead of border-width, border-color, border-style we will use "border" attribute.
- padding: means Space b/w the content & border

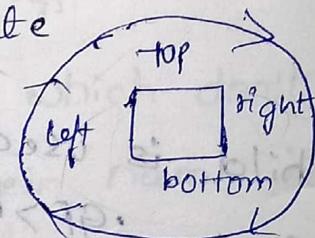
padding-left: 100px;

padding-right, padding-top, padding-bottom.

- We can also mention all the properties by using only one padding attribute

padding: top-right-bottom-left

clock-wise direction



- If we will give one value in padding attribute it will take top, bottom, left, right.

- If we will give two values in padding attribute

padding: 10px 100px;

↓ ↓
left, right top, bottom

↓ ↓
top, bottom left, right

- After ~~sp~~ border the space left over is called as "margin"
 - Margin helps us to increase the space outside the border.
 - Only span tag margin won't work
- margin-top: / margin-bottom / margin-right / margin-left
 (or)
 margin: 10px 10px (or) margin: 10px;
 ↓ ↓ ↓
 top / bottom left, right top, bottom, left
 ↓ ↓ ↓
 right.

- Border-radius: help us to curving our borders.

Eg:- border-radius: 200px;
 → we have to give half of the length of height,
 width
 border-top-right-radius: 100px;
 " bottom-left - " : 100px;

Eg:- box-shadow: 10px 10px 15px blue;

Display

1. inline

2. block

3. inline-block

4. none

Height & width work
 block:- Contains contents will take one whole block
 of space. It will display contents one below each other.

inline:- Content will display in the same line
 Height & width will not work

- To change the block to inline and inline to block
 we will use display attribute

Eg:- display: block;
display: inline;

3. inline-block :-

Height and width also changes but contains in the same lines

4. none :- (It does not display the content) When we want to hide the content in different dimensions.

 If we will reduce the size the contents will come under "hamburger" (if we will increase size the  will disappear (To disappear the content we will use none))

5. flex :- It is supposed to be set for the parent it will align all the childs into same line

without using inline-block

- It will affect only its own child.
- It is not supposed to set for the child
- we can align the child position by using align-items: end (means bottom) // Vertical align-align-item: start (means top)
align-item: center

- without using multiple inline-block we can directly apply it to the body tag bcoz it is the parent of all the tags inside that

Vertical - justify-content : - Start / end / center
(horizontal align)

- Justify-content : - Space-around / space-between / Space-evenly

it is also used to give the equal space b/w the content.

- TO align-item, justify-content we will use.

display: flex.

Pseudo properties

We have 2 types

1. Pseudo elements

2. Pseudo classes.

1. Pseudo Elements :-

- TO select some specific object in webpage.

- We can make use of pseudo elements by using

double colon "(:)"

The elements are

(i) first-letter - first letter will change

(ii) first-line - first line will change

(iii) before - positions where we can display something

(iv) after - before the content

(v) placeholder - After the content/statement we can display something (img / text)

(vi) place holder - to select the text in placeholder

we will use (`input ::placeholder`)

`<input placeholder="Enter" type="text">`

before, after will use content attribute and

write the text and by using URL we can place an image.

p::first-letter

h1::first-line {

color: blue;

{ font-size: 100px;

color: red;

h3::before {

content: url(`address`);

} border: 1px solid black;

content: url(`address`);

h3 :: after

{
content : text;
}

2. Pseudo classes :-

- Behaviour for an element

- we will use by using "(:)" single colons

visited :- when we click on the link and come back
the color will change

- It is used only in anchor tag.

Active :- we can change the color the text the color
will change when we click on it, "it will blink".

focus :- it is only used in form tag.
when we click on the focused text it
will change until we will click on some where
else in webpage.

transition :- Used to give the effects

eg: transition: 3s;

(pass by some obj)
Hover :- it can use on any tag

we can just move the mouse on the content
it can change the content.

focus eq :-

button: focus {

font-size: 40px;

border: none;

color: white

padding: 20px, 50px;

background: linear-gradient
(color color);

Transformation

We can change one object from one shift / direction to another shift / direction.

- There are 13 properties

(i) transform : rotate (90deg);

X-axis, Y-axis, Z-axis are applied on rotate
rotate X - rotate on X-axis

rotate Y - rotate on Y-axis

rotate Z - 'rotate Z' also works as rotate

(ii) transform : skew (90deg);
it will stretch itself so much and it will rotate.

Skew X & Skew are same it will stretch on X-axis

skew Y - it will stretch on Y-axis.

(iii) transform : translate (100px); - toward right
(-100px) - toward left
Move from one place to another place.

translate X and translate it can move horizontal

translate Y - move toward vertical
(100 px) toward down

(-100 px) toward up

translate Z - we can observe movement on 3D screen
not in 2D

(iv) transform : scale (2)

we can resize the object

scale X - it will change the width of the content / obj

scale Y - it will increase on Y-axis change height

scale - It will increase all the direction (scaleX, scaleY)

Position

- we can learn how to change the position of the tag
- we can move an obj from one place to another
- there are 5 types of position.

1. static
2. relative
3. absolute
4. fixed
5. sticky

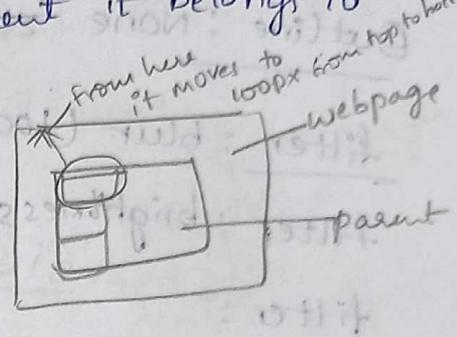
- To move object we have some properties
- (i) top - It moves from top to bottom
 - (ii) bottom - It moves from bottom to top
 - (iii) left - " " left to right
 - (iv) right - " " right to left
1. Position : static :-
- By default every element in html is static
 - If the element is static top, bottom, left, right won't work.
 - Static means fixed position

2. position : relative :-
- The obj moves from parents "initial position."
 - if the tag is "relative"
 - It "relates" to its parent.
- Ex :- `position: relative;`
- `top: 100px;`
- `left: 20px;`
- } Inside child tag
- The diagram illustrates a hierarchical DOM structure. A large rectangle on the right is labeled 'parent'. Inside it, a smaller rectangle is labeled 'child tag'. The child tag has a small circle at its top-left corner with an arrow pointing up and to the left, indicating its position relative to the parent's top-left corner. Labels 'top: 100px' and 'left: 20px' are placed near the arrow. Above the parent element, the word 'webpage' is written. To the left of the parent, there is some code: <div class=""> <div class=""> </div> </div>. The 'position: relative;' part is associated with the parent element, and the 'top: 100px; left: 20px;' parts are associated with the child element.

3. position: absolute:-

- The content not belongs to the parent it belongs to the webpage."
- It moves the original position of the webpage
- Once child come out of the parent it belongs to webpage.

Eg:- parent: absolute;
top: 100px;



4. position: fixed:-

It is same like absolute

- It is same like absolute
- The difference is when it is fixed to the screen if we move the webpage the fixed content will won't move.

Eg:- parent: fixed
top: 0px;

5. position: sticky:-

- It is a combination of relative, fixed.
- Once it reach some point like (top: 100px) of the webpage it is fixed. It will be fixed until the parent is there on the webpage once we scroll the parent the fixed part will also move.

Eg:- parent: sticky
top: 30px;

Text-decoration :- It is used to remove the underline from anchor tag.

Eg:- text-decoration: underline,
none

Z-index :- It is used to move front and back of the webpage

Ex:- Z-index: 1;

Outline: None

filter: blur (100px), (10px), (-100px)

filter: brightness (100%) (-100%), (100%)

filter:

mix-blend-mode: darken, lighter, luminosity

color pick eye dropper with chrome extension

Icons
font awesome icons

first link (font awesome cdn)

add the link inside head tag

font awesome cdn

How to add font awesome cdn

font awesome cdn