**Properties**:

*Level 1:*

1. Color:

color: red; // Property: value; //

background-color: blue;

2. text-align: right, center, left, start, end;

3. text-decoration: underline, overline, none; // none is used for no line over the text, most used over anchor tage //

text-decoration: red underline;

text-decoration: dotted, wavy, dashed, solid, double red underline;

4. font-weight: bold, light, normal, light, bolder;

Also we can use the number like, the lightest number if 100 and bold start from 400;

font-weight: 106; // lightest

font-weight: 650; // bold

5. font-family: arial, time new roman, roboto; // if the first text doesn’t run in a particular browser then the second one should run //

6. Units in CSS:

1 inch = 96px;

1 inch = 2.54 cm;

7. font-size: 10px; // for the size of the text

Font-size: 25 px;

8. line-height: 20 px; // the vertical distance between lines;

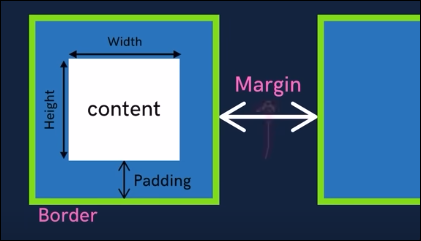
Line-height:

9. text-transform: uppercase;

Text:transform: lowercase; // capatlize does every words’ first letter capital

Text:transform: none;

10. list-style-type: none; // removes the point in the list //



*Level 2:*

1. height: 20px;

2. width: 20px;

3. border-width: 2px;

Border-style: solid, dotted, dashed;

Border-color: black;

Border : 2px solid black; // short hand method to add the border //

Border-radius: 10px; // the curve around the edges of the border //

Border-radius: 50%;

***Note:*** *all the features run in a div according to its values; like If we apply the center in a div, it will be centered according to height and width of that div //*

4. padding-left/right/top/bottom: 10px; // specifically, area that comes between border-content

Padding: 50px; // right, left, top, bottom = 50px //

Padding: 1px 2px 3px 4px; top right bottom left -> clockwise

5. margin-left/right/top/bottom: 10px; // specifically, area that comes between the border of two different boxes //

margin: 50px; // right, left, top, bottom = 50px //

margin: 1px 2px 3px 4px; top right bottom left -> clockwise

6. display: inline/block/ inline-block/ none

Display: inline // limit the space that only is required for the div, no margin and padding

Display: block // provide all the space in the row for it

Display: inline-block // same as inline but in this we can add the margin and padding

Display: none // remove the div or box and the next div or box takes the space of first one

7. Alpha Channel

Color: rgba (255, 0 ,0 , 0.6) //The value of a should be between the 0 and 1, 0 is for lightest and 1 for darkest

*Level: 3*

1. Relative Units:

Percentage (%): usually applied in Parent-Child Relationship. It is done for Child.

em is done for font-size: 1em; it is also done for Parent-Child Relationship. It is done for Child.\

rem is relative to the body

2. Position: static/ relative/ absolute/ fixed

2.1 By using static word the div come to it default position and the top, bottom, left, right doesn’t work

2.2 Whereas, using the relative word like *(position: relative to itself)* means that when we use the top: 20px; the div moves down 20px from it default position

2.3 By using absolute, the position is relative to its closest positioned parent of parents (ancestor)

Like in the body, every div has body as his ancestor, and it position like top: 20px; will be settled according to the body’s top

2.4 Fixed. It is relative to the browser. Like we can use it in the footer or header.

2.5 Sticky is positioned based on the user's scroll position

2.6 z-index: 6; will be used to for overlapping between two div. The largest the z-index value of particular div the outer it will be shown.

3.1 Background-image: url(“one.jpg”); // to add the background image

3.2 Background-size: cover/contain/auto // cover mean all, picture contain all the given area

*Level: 4*

Flex Box

100: display: flex;

1. flex-direction: row(default) / row-reverse / column / column-reverse/

*row-reverse reverses the direction of the row/ lf in the first time the boxes are like box1, box2, box3 then after applying row-reverse the direction becomes box3, box2, box1*

*same as for column-reverse*

2. justify-content: flex-start/end/ center / space-around/ space-between / space-evenly

For the space between div in the container.

align-content: center; // all the items have space between them, and fitted in the box

align-items: center; // all the items doesn’t have space between them but fitted

flex-wrap: wrap;

*Level: 5*

1. Transitions:

Transition-property: all; // mostly this remains same

Transition-duration: 2s; // the transition will be completed in that time

Transition-delay: 2s; // time delay in the happening of transition

Transition-timing-function: ease-in/ ease-out/ linear;

Div:hover{

Font-size: 10px;

Background-color: red; // when the user hover over that part

}

Div:active{

// when user clicks and hold that part then this change happens

}

2. Transform

Transform: rotate(45deg); // this is done for 2D shapes

Rotate: 45deg; // These two are done for 3D shapes

rotateX/Y/Z: 45deg;

transform: scale(1); // this will make the picture larger wrt to original picture

transform: translate(200px, 100px); // this will make the div to move in that given pixels direction

transform: skew(20deg); // this will make the div to stretch in that given angle

3. Animation:

@keyframes name(hello) {

From { background-color: green; OR font-size: 20px;}

To { background-color: red Or font-size: 30px;}

}

Animation-name: hello;

Animation-duration: 3s;

Animation-iteration-count: 5; // how many times the animation runs

Animation-delay: 1s; // delay of 1 second after each iteration

Animation-direction: normal/reverse/ alternate/ alternate-rev;

// normal will move right only, reverse is revserse of normal, alternate will move right to left to right

Shorthand method:

Animation: myName 2s linear 3s infinite normal;

Name, duration, timing-function, delay, iteration, direction

Links:  
<https://www.vacationlabs.com/travel-website-theme/cultural-historical-tours-website-template/>

<https://dribbble.com/shots/21692150-Historical-website-design>

<http://preview.themeforest.net/item/egypt-museum-exhibition-wordpress-theme/full_screen_preview/25686089?_ga=2.83582418.555792103.1718297349-1190297104.1718190340>