Animation

```
<!DOCTYPE html>
<html>
<head>
<style>

@keyframes topics {
  from {top:0px;background-color:pink}
  to {top:200px;background-color:blue}
}
/*@keyframes topics {
  0% {background-color:pink}
  50% {background-color:yellow}
  100% {background-color:green}
}*/

div {
  width: 300px;
  height:200px;
  position:relative;
  margin:auto;
  animation-name:topics;
  animation-duration:5s;
  animation-delay:2s;
  animation-iteration-count:2; /* try infinite */
  animation-direction:alternate; /*reverse alternate-reverse*/
  animation-timing-function:ease-out; /*ease,linear,ease-in,ease-in-out*/
  animation-fill-mode: forwards; /*retains the style after */
  animation: topics 5s linear 2s infinite alternate;
}
</style>
</head>
<body>
<div></div>
</body>
</html>
```

Transformation

```
<!DOCTYPE html>
<html>
  <head>
    <style>
      .c {
        transform: translate(50px, 100px);
        /* transform:rotate(30deg) */
        /* transform: scale(1.2, 1.2); */
        /* transform: scaleX(1.3); */
        /* transform: scaleY(1.3); */
        /* transform: skew(10deg, 20deg); */
        /* transform: skewX(10deg); */
        /* transform: skewY(20deg); */
        /*transform: matrix(1, -0.3, 0, 1, 20, 40); */
        /* matrix(scaleX(), skewY(), skewX(), scaleY(), translateX(), translateY()) */
      }
    </style>
  </head>
  <body>
    <img src="flower.png" />
    <img src="flower.png" class="c" />
  </body>
</html>
```

Dropdown Menu

```
ul {margin: 0px;padding: 0px;background-color: silver;}
li {display: inline-block;padding: 5px;}
li:hover {background-color: grey;}
.submenu {display: none;position: absolute;}
.menu:hover .submenu {display: block;}
……………………………………………………………………………………..
 <ul>
    <li>Home</li>
    <li class="menu">
     Courses
     <div class="submenu">
       <a href="#">Python</a><br>
       <a href="#">Java</a><br>
     </div>
    </li>
    <li>About</li>
    <li>Contact</li>
 </ul>
```

Z-index

```
<style>
img {position: absolute;left: 0px;top: 0px;
 z-index: -1;}  /* try 1 2 3 just like stack */
</style>
<body>
<h1>This is a heading</h1>
<img src="meeting.jpg">
<p>This is a dummy text and can be replaced. This is a dummy text and can be replaced.</p>
```

Favi icon on title bar

<title>My Page Title</title>
  <link rel="icon" type="image/x-icon" href="/images/favicon.ico">

Background-color - opacity

```
div {
  background-color: lightblue;
}
div {
  background-color: blue;
  opacity: 0.4;  // use below rgba to keep the text bold
}
div {
  background: rgba(0, 0, 128, 0.4)
}
```

Overflow

```css
div {
    width: 200px;
    height: 100px;
    background-color: yellow;
    overflow: auto; /* try hidden scroll visible */
}
div {
    overflow-x: hidden;
    overflow-y: scroll;
}
```

Navigation Menu

```css
ul{
  margin:0px;
  padding:0px;
  background-color:silver;
}

li{
  display:inline-block; /*try block for vertical menu */
  padding:5px;
}

li:hover{
  background-color:grey;
}
```

CSS Pseudo-elements (style parts)

div::first-line {color: blue;}

div::first-letter {color: red;font-size: 60px;}

p.lesson::first-letter {color: blue;font-size: 200%;}

p::before {content: url("colors.png");} /*try after */

::marker {color: blue;font-size: 23px;} /* for li items */

::selection {color: maroon;background: orange;}

!important Rule

```
<style>
    #demo {color: blue;}
    .test {color: green;}
    h1 {color: red !important;}  /* try important in .test also */
  </style>

<body>
  <h1 id="demo" class="test" style="color: Orange">Hello World!</h1>
 </body>
```
………………………………………………..
Inline styles, IDs, class, elements

Math Functions

```
#div1 {
  /*width: calc(100% - 100px); */
  /*width: max(50%,100px); */
  width: min(50%,100px);
  border: 1px solid red;
  background-color: pink;
}
```

Hero Image

```
.hero-image {
    background: url(officedesk.jpg) no-repeat center;
    background-size: cover;
    height: 500px;
    position: relative;}

.hero-text {
    text-align: center;
    position: absolute;
    top: 50%;
    left: 50%;
    transform: translate(-50%, -50%);
    color: white;}
```

Shadow Effects

```
div {
    border: 1px solid blue;
    margin: auto;
    text-align: center;
    width: 400px;
    height: 200px;
    background-color: yellow;
    box-shadow: 2px 2px 4px red inset, 4px 4px 4px green;
    text-shadow: 2px 1px red;
    }
```

Transitions

```
<!DOCTYPE html>
<html>
<head>
<style>
div {
  width: 100px;
  height: 100px;
  background: maroon;
/* transition: width 2s, height 2s, transform 2s; /* try without transition */
  /*transition-delay:1s;*/
  transition-property: width,height,transform;
  transition-duration: 2s,5s,1s;
  transition-timing-function:ease-out; /*ease-in,linear,ease-in-out*/
}
div:hover {
  width: 300px;
  height:200px;
  /*transform: rotate(180deg);*/
  /*transform:translate(100px,300px)*/
  transform:scale(2,2)
}
</style>
</head>
<body>
<div></div>
</body>
</html>
```