

Replaced animation by Javascript

#### **CSS Animators**

- CSS Animations is a technique used to change the appearance and behavior of various elements in web pages.
- It will control the elements by changing their motions or display.
- It has replaced the animation created by Flash and JavaScript.
- The animation is created using the @keyframe rule.

Animation

**Properties** 

- It has two parts,
  - **CSS Properties** (describe the animation of the elements)
  - **keyframes** (specific time intervals at which the animations have to occur)
- When the animation is created in the **@keyframe** rule, it must have a **selector** otherwise, the animation will have **no effect**.





- Keyframes are the **foundation** of CSS Animations.
- It will control the **intermediate steps** in a CSS animation sequence.

It defines the display of animation at the corresponding stages in the whole duration.

@ Key Frances {

0% { color: blue}

25% { color: red}

80%. {color: green}

2nd" (a) Key Frames {

From {margin-left: Opx}
to {margin-left: 200px}

**Animators Keyframes**  Animation **Properties**  Properties in detail

# Animation Properties -> mention in declaration

- animation-name [ ] Compulsory to apply the property animation of animation of name time (Shorthand)
- animation-delay
- animation-direction
- animation-iteration-count
- animation-timing-function
- animation-fill-mode

1 /# name ghz, body etc. Selector

animation: name time animation-iteration-count: 3

animation-delay: 35

Keyframes **Animators** 

**Animation Properties**  Properties in detail

#### animation-name

- The animation-name property is used to describe the name of the **@keyframe** that has the CSS animation sequence.
- Syntax: animation-name: animation \_name;
- Example:

```
div {
   width: 100px;
   height: 100px;
   background: red;
   position: relative;
   animation-name: mymove;
   animation-duration: 5s;
}

@keyframes mymove {
   from {left: 0px;}
   to {left: 200px;}
}
```

#### animation-duration

- The animation-duration property specifies the time duration of the animation to complete one cycle.
- If animation-duration is not mentioned, no animation will occur because the default value is 0 seconds.
- We can specify animation-duration by using the keywords "**from**" and "**to**" (which represents 0% (start) and 100% (complete)). Instead, we can also use **percent**.

Animators Keyframes

Animation Properties

Properties in detail

```
<style>
        font-size: 40px;
        text-align: center;
        animation-name: color;
        animation-duration: (5s)
    @keyframes color {
             {background-color: red;}
            {background-color: yellow;}
        25%
        50%
            {background-color: blue;}
        100% {background-color: green;}
</style>
```

Animation Properties

Properties in detail

# animation-delay - Annimation 2751 late start & 1

• The animation-delay specifies the **delay** when the animation should start.



It allows **Negative** values. If using negative values, the animation will be playing as if it has started **already** before *N* seconds.

```
<style>
    #eg {
        font-size: 40px;
        text-align: center;
        animation-name: (color;)
        animation-duration: 2s;
   #eg delay{
        font-size: 40px;
        text-align: center;
        animation-name: colorpercent;
        animation-duration: 5s; always +ive
        animation-delay: (-3s:
   @keyframes (color)
        from { background-color: red;}
        to { background-color: yellow;}
   @keyframes (colorpercent) {
             {background-color: orange;}
        25% {background-color: red;}
            {background-color: blue;}
        100% {background-color: green;}
</style>
```

### animation-iteration-count

- The animation-iteration-count property specifies the
   number of times an animation should run.
- If we specify the animation-iteration-count value as infinite, the animation will repeat indefinitely.

```
<style>
div {
  width: 100px;
  height: 100px;
  background: red;
  position: relative; /
  animation: mymove 3s;
  animation-iteration-count: 2;
@keyframes mymove {
  from {top: 0px;}
  to {top: 200px;}
</style>
```

# animation-direction

The animation-direction property specifies the direction of the animation.

Values	Description
normal (default)	The animation is played <b>forward</b>
reverse	The animation is played in the <b>reverse</b> direction i.e. backward
alternate	The animation is played (forwards first, and then backward)
alternate-reverse	The animation is played backward first, and then forwards
	Lyeverse

> Animation Properties Properties in detail

#### animation-direction

```
<style>
   #eg {
       font-size: 40px;
       text-align: center;
       font-weight: bold;
   h2 {
       width: 100%;
      animation-iteration-count: infinite; - repeat confinuously
   #one { animation-direction: normal; }
   #two { animation-direction: reverse; }
   #three { animation-direction: alternate; }
   #four { animation-direction: alternate-reverse; }
   @keyframes text {
       from { margin-left: 0%; }
       to { margin-left: 60%; }
</style>
```

Animators

Keyframes

Animation Properties

Properties in detail

## animation-timing-function

 The animation-timing-function property specifies the speed curve of animation.

	Values	Description
	ease (default)	The animation starts slowly, then fast, and then finally ends slowly
	linear	The animation plays with the same speed from start to end
	ease-in	The animation plays with a slow start east
	ease-out	The animation plays with a slow end
, L	<mark>ease-</mark> in-out	The animation starts and ends slowly
	cubic-bezier(n,n,n,n)	Lets you define your own values in a cubic-bezier function



Keyframes

Animation Properties

Properties in detail

### animation-fill-mode



- CSS animations **will not** affect an element before the first keyframe is played or after the last keyframe is played. This behavior can be **overridden** by the **animation-fill-mode** property.
- It is used to specify the **style** for the element when the animation is **not playing**.

## animation-fill-mode

Keyframes

Animators

Values	Description
none (default)	The animation <b>will not</b> apply any styles to the element before or
	after it is executing
forwards -> & stop	The element will retain the style values that are set by the <b>last</b>
	keyframe (depends on animation-direction and
	animation-iteration-count)
backwards , <del>C</del>	The element will get the style values that are set by the <b>first</b>
(b) SLOD	keyframe (depends on animation-direction), and retain this
307	during the <b>animation-delay</b> period
both )	The animation will follow the rules for <b>both forwards</b> and
	<b>backwards</b> , extending the animation properties in both directions
alternate	more Dorward and come back to some position

Properties in

detail

Animation

Properties

Shorthand

property

## animation-play-state

- The animation-play-state property allows you to play/pause the animation.
- The possible values are: paused, running.
- Syntax: animation-play-state: paused|running;

```
<style>
div {
  width: 100px;
  height: 100px;
  background: red;
  position: relative;
  animation: mymove 5s;
  animation-play-state: paused;
}

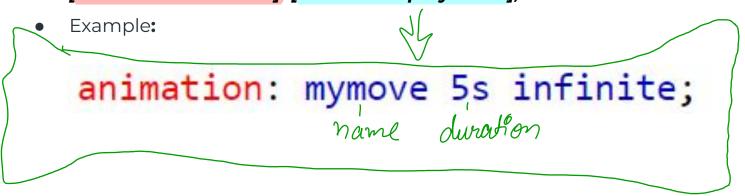
@keyframes mymove {
  from {left: 0px;}
  to {left: 200px;}
}
```

## **Animation Shorthand property**

- A shorthand property for setting all the animation properties.
- The properties should be in the following order.

Syntax:

animation: [animation-name] [animation-duration] [animation-timing-function] [animation delay] [animation-iteration-count] [animation-direction] [animation-play-state];



Animators

Keyframes

Animation Properties

Properties in detail