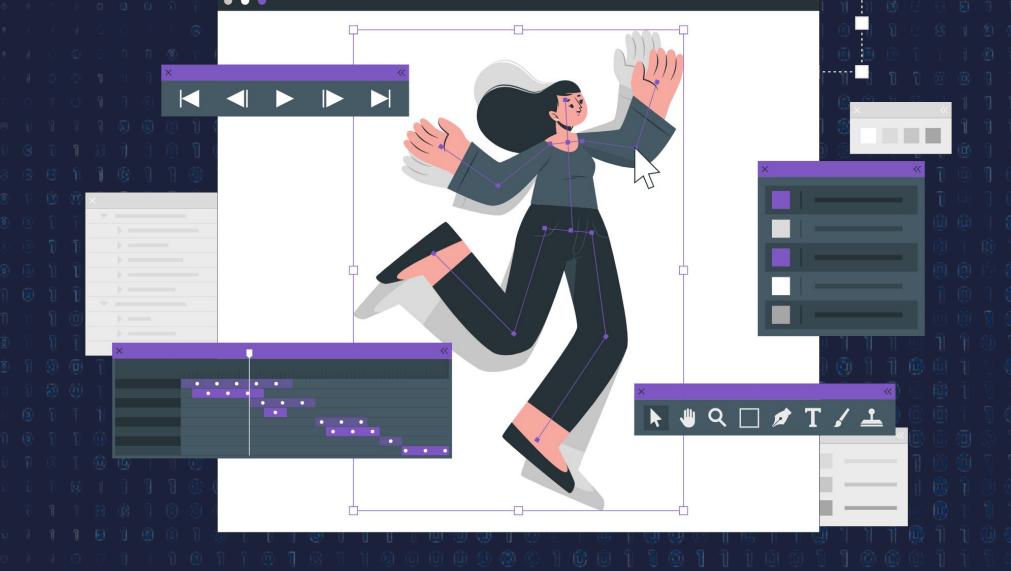


Animation





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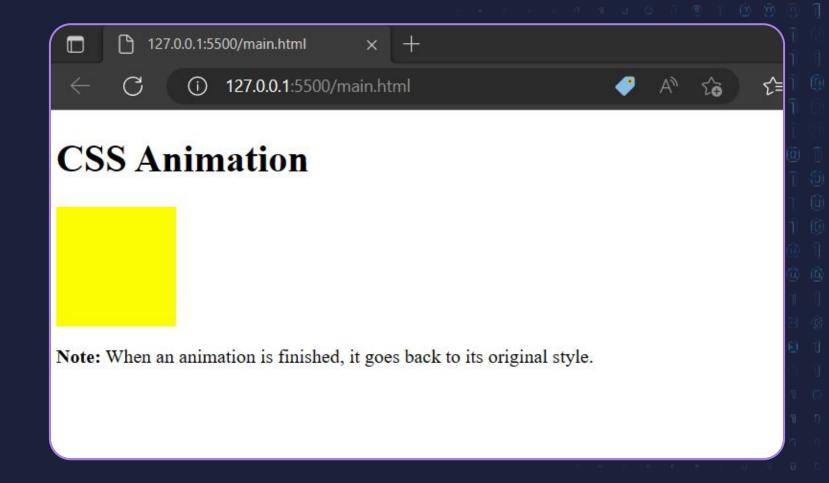
What is animation

- An animation lets an element gradually change from one style to another.
- You can change as many CSS properties you want, as many times as you want.
- To use CSS animation, you must first specify some keyframes for the animation.



@keyframes Rules

- When you specify CSS styles inside the @keyframes rule, the animation will gradually change from the current style to the new style at certain times.
- To get an animation to work, you must bind the animation to an element.
- The animation-duration property defines how long an animation should take to complete. If the animation-duration property is not specified, no animation will occur, because the default value is 0s (0 seconds).





Delaying an animation

- The animation-delay property specifies a delay for the start of an animation.
- Animation delay can also have negative values.



Setting how many times an animation can run

• The animation-iteration-count property specifies the number of times an animation should run. This can also be infinite.



Run Animation in Reverse Direction or Alternate Cycles

- The animation-direction property specifies whether an animation should be played forwards, backwards or in alternate cycles.
- The animation-direction property can have the following values:

normal - The animation is played as normal (forwards). This is default reverse - The animation is played in reverse direction (backwards) alternate - The animation is played forwards first, then backwards alternate-reverse - The animation is played backwards first, then forwards



Specify the speed Curve of the Animation

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

The animation-timing-function property can have the following values:

- ease Specifies an animation with a slow start, then fast, then end slowly (this is default)
- linear Specifies an animation with the same speed from start to end
- ease-in Specifies an animation with a slow start
- ease-out Specifies an animation with a slow end
- ease-in-out Specifies an animation with a slow start and end
- cubic-bezier(n,n,n,n) Lets you define your own values in a cubic-bezier function



Specify the fill-mode For an Animation

CSS animations do not affect an element before the first keyframe is played or after the last keyframe is played. The animation-fill-mode property can override this behavior.

The animation-fill-mode property specifies a style for the target element when the animation is not playing (before it starts, after it ends, or both).

The animation-fill-mode property can have the following values:

- none Default value. Animation will not apply any styles to the element before or after it
 is executing
- forwards The element will retain the style values that is set by the last keyframe (depends on animation-direction and animation-iteration-count)
- backwards The element will get the style values that is set by the first keyframe (depends on animation-direction), and retain this during the animation-delay period
- both The animation will follow the rules for both forwards and backwards, extending the animation properties in both directions.



Animation Shorthand Property

```
• Look at the animation mentioned in the div below:
div {
    animation-name: example;
    animation-duration: 5s;
```

```
animation-timing-function: linear;
animation-delay: 2s;
animation-iteration-count: infinite;
animation-direction: alternate;
```

To achieve this in shorthand we will use the following:
 div {
 animation: example 5s linear 2s infinite alternate;
 }



#