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CSS Animations

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CSS Animations

CSS allows animation of HTML elements without using JavaScript or Flash!

In this chapter you will learn about the following properties:

- @keyframes animation-name animation-duration
- animation-delay animation-iteration-count
- animation-timing-function • animation-fill-mode

animation-direction

animation

Browser Support for Animations

The numbers in the table specify the first browser version that fully supports the property.

Property					0
@keyframes	43.0	10.0	16.0	9.0	30.0
animation-name	43.0	10.0	16.0	9.0	30.0
animation-duration	43.0	10.0	16.0	9.0	30.0
animation-delay	43.0	10.0	16.0	9.0	30.0
animation-iteration-count	43.0	10.0	16.0	9.0	30.0
animation-direction	43.0	10.0	16.0	9.0	30.0
animation-timing-function	43.0	10.0	16.0	9.0	30.0
animation-fill-mode	43.0	10.0	16.0	9.0	30.0
animation	43.0	10.0	16.0	9.0	30.0

What are CSS Animations?

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 hold what styles the element will have at certain times.

The @keyframes Rule

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.

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To get an animation to work, you must bind the animation to an element.

The following example binds the "example" animation to the <div> element. The animation will last for 4 seconds, and it will gradually change the background-color of the <div> element from "red" to "yellow":

Example

```
/* The animation code */
@keyframes example {
  from {background-color: red;}
  to {background-color: yellow;}
^{\primest} The element to apply the animation to ^{st}/
 div {
  width: 100px;
   height: 100px;
   background-color: red;
   animation-name: example;
  animation-duration: 4s;
```

Try it Yourself »

Note: 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).

In the example above we have specified when the style will change by using the keywords "from" and "to" (which represents 0% (start) and 100% (complete)).

It is also possible to use percent. By using percent, you can add as many style changes as you like.

The following example will change the background-color of the <div> element when the animation is 25% complete, 50% complete, and again when the animation is 100% complete:

Example

```
/* The animation code */
@keyframes example {
  0% {background-color: red;}
  25% {background-color: yellow;}
  50% {background-color: blue;}
  100% {background-color: green;}
 /* The element to apply the animation to */
  width: 100px;
  height: 100px;
  background-color: red;
  animation-name: example;
  animation-duration: 4s;
```

Try it Yourself »

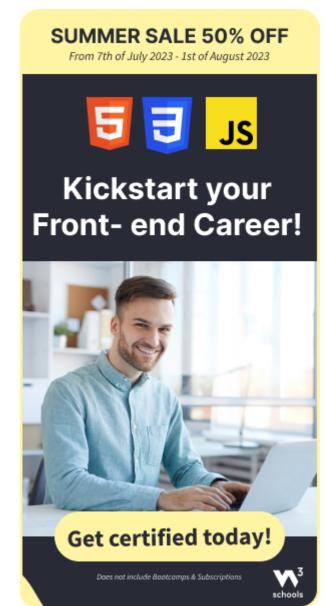
The following example will change both the background-color and the position of the <div> element when the animation is 25% complete, 50% complete, and again when the animation is 100% complete:

Example



COLOR PICKER

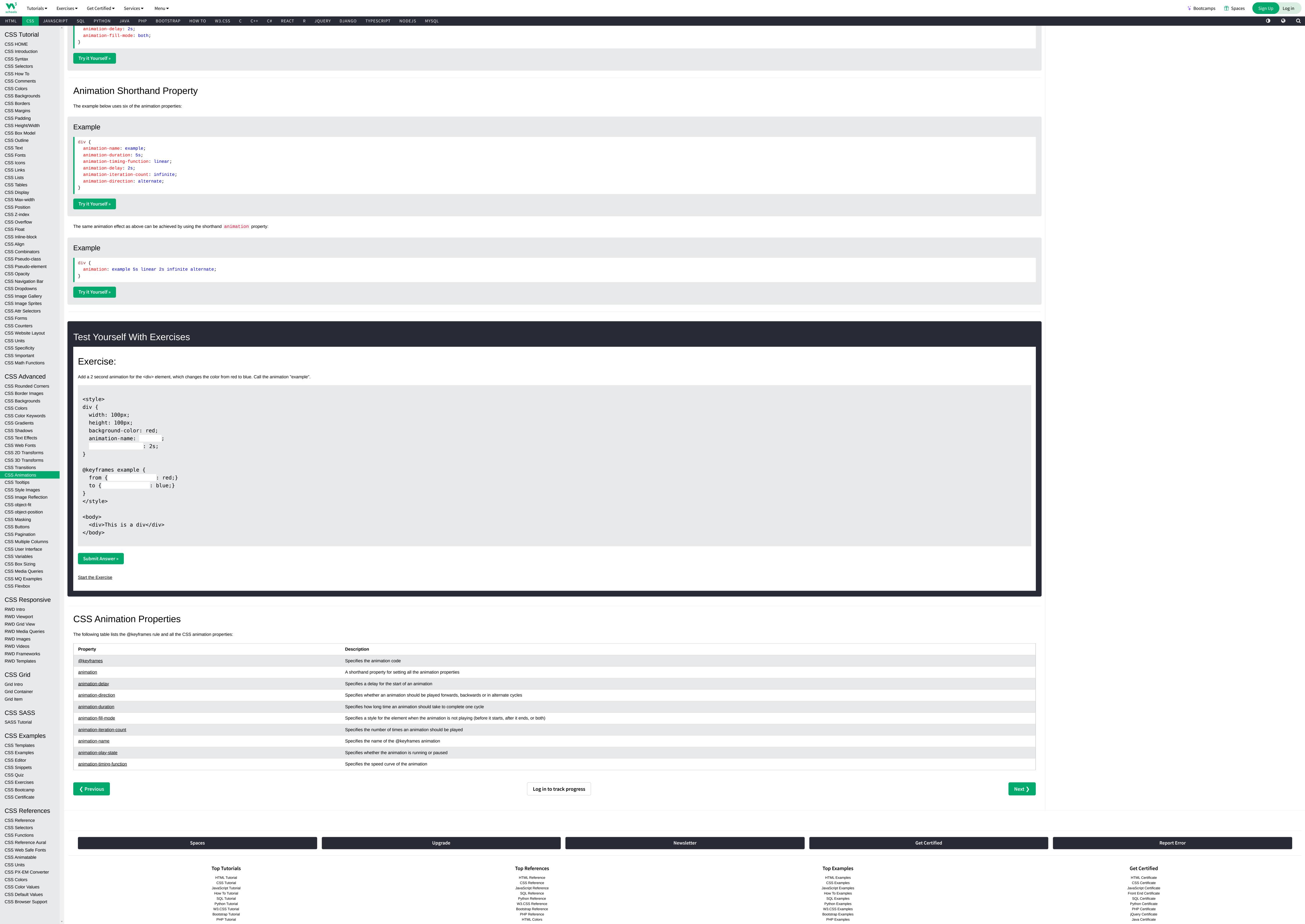




animation-duration: 4s;

0 Q Q

0 0 Q



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