

CSS Animations

The animation property in CSS can be used to animate many CSS properties such as color, background-color, height, or width.


Syntax

Each animation needs to be defined with the `@keyframes at-rule` which is then called with the `animation property`, using the same `name` you gave your keyframes animation.

You then define some `sub-properties` for that animation.

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Each `@keyframes` at-rule defines what should happen at specific moments during the animation. For example, 0% is the beginning of the animation and 100% is the end.

 style.css

```
.element {  
  animation: pulse 5s infinite;  
}  
  
@keyframes pulse {  
  0% {  
    background-color: #001F3F;  
  }  
  100% {  
    background-color: #FF4136;  
  }  
}
```

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These keyframes can then be controlled either by the shorthand `animation` property, or its eight sub-properties, to give more control over how those keyframes should be manipulated.

Shorthand vs. long

📄 style.css

```
.element {  
  animation: pulse 5s infinite;  
}
```

OR

📄 style.css

```
.element {  
  animation-name: pulse;  
  animation-duration: 5s;  
  animation-iteration-count: infinite;  
}
```


Possible properties

animation-timing-function	ease, ease-out, ease-in, ease-in-out, linear, cubic-bezier(x1, y1, x2, y2) (e.g. cubic-bezier(0.5, 0.2, 0.3, 1.0))
animation-duration	Xs or Xms (number of seconds or milliseconds)
animation-delay	Xs or Xms (number of seconds or milliseconds)
animation-iteration-count	X (a number)
animation-fill-mode	forwards, backwards, both, none
animation-direction	normal, alternate
animation-play-state	paused, running, running

Transform property

This is a property that's commonly used in animations.


The transform property allows you to visually manipulate an element by skewing, rotating, translating, or scaling

 style.css

```
.element {  
  width: 20px;  
  height: 20px;  
  transform: scale(20);  
}
```

CSS-Tricks has some [great examples](#) of all the transform properties in use.

Multiple steps

 style.css

```
@keyframes pulse {  
  0%, 100% {  
    background-color: #001F3F;  
  }  
  50% {  
    background-color: #FF4136;  
  }  
}
```


Multiple animations

📄 style.css

```
.element {  
  animation: pulse 3s ease infinite alternate, nudge 5s  
            linear infinite alternate;  
}
```

[Let's try this one together](#)

Use the code from

5d_tools_start_code_week_13